

Mathematical Reviews

EDITORIAL COMMITTEE

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Annual Index — 2004

Subject Index 60–97

TABLE OF CONTENTS

Subject Index 60–97 ..... **1747–3490**
MSC2000 ..... **S1–S41**

Index of Mathematical Papers **Volume 36**
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Mathematics Subject Classification 2000

00 General
01 History and biography
03 Mathematical logic and foundations
05 Combinatorics
06 Order, lattices, ordered algebraic structures
08 General algebraic systems
11 Number theory
12 Field theory and polynomials
13 Commutative rings and algebras
14 Algebraic geometry
15 Linear and multilinear algebra; matrix theory
16 Associative rings and algebras
17 Nonassociative rings and algebras
18 Category theory; homological algebra
19 K-theory
20 Group theory and generalizations
22 Topological groups, Lie groups
26 Real functions
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables and analytic spaces
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
37 Dynamical systems and ergodic theory
39 Difference and functional equations
40 Sequences, series, summability
41 Approximations and expansions
42 Fourier analysis
43 Abstract harmonic analysis
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations and optimal control; optimization
51 Geometry
52 Convex and discrete geometry
53 Differential geometry
54 General topology
55 Algebraic topology
57 Manifolds and cell complexes
58 Global analysis, analysis on manifolds
60 Probability theory and stochastic processes
62 Statistics
65 Numerical analysis
68 Computer science
70 Mechanics of particles and systems
74 Mechanics of deformable solids
76 Fluid mechanics
78 Optics, electromagnetic theory
80 Classical thermodynamics, heat transfer
81 Quantum theory
82 Statistical mechanics, structure of matter
83 Relativity and gravitational theory
85 Astronomy and astrophysics
86 Geophysics
90 Operations research, mathematical programming
91 Game theory, economics, social and behavioral sciences
92 Biology and other natural sciences
93 Systems theory; control
94 Information and communication, circuits
97 Mathematics education

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10 9 8 7 6 5 4 3 2 1 09 08 07 06 05 04

60–XX Probability theory and stochastic processes {For additional applications, see 11Kxx, 62–XX, 90–XX, 91–XX, 92–XX, 93–XX, 94–XX.}

60–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 60–00

Blumenfeld, Dennis ★ Operations research calculations handbook. **2004e:90001**

60–01 Instructional exposition (textbooks, tutorial papers, etc.)

AitSahlia, Farid *see* **Chung, Kai Lai**, **2004i:60002**
Baschnagel, Jörg *see* **Paul, Wolfgang Bernhard**, **2004m:60003**
Basu, A. K. ★ Introduction to stochastic process. **2004i:60001**
(Bäumle-Courth, Peter) *see* **Moeschlin, Otto**, **2004h:60001**
Borovkov, K. A. ★ Elements of stochastic modelling. **2004d:60001**
Chaumont, L. (*with* Yor, Marc) ★ Exercises in probability. **2004m:60001**
Chung, Kai Lai (*with* AitSahlia, Farid) ★ Elementary probability theory. **2004i:60002**
Daley, Daryl John (*with* Vere-Jones, David) ★ An introduction to the theory of point processes. Vol. I. **2004c:60001**
Grimmett, Geoffrey R. (*with* Stirzaker, David R.) ★ Probability and random processes. **2004m:60002**
(Grycko, Eugen) *see* **Moeschlin, Otto**, **2004h:60001**
Henze, Norbert ★ Stochastik für Einsteiger. (German) [Stochastics for beginners] **2004e:60001**
Hernández, Fabián M. ★ Cálculo de probabilidades. (Spanish) [Probability theory]
Heyman, Daniel P. (*with* Sobel, Matthew J.) ★ Stochastic models in operations research. Vol. I. **2004i:60003a**
— (*with* Sobel, Matthew J.) ★ Stochastic models in operations research. Vol. II. **2004i:60003b**
Kaj, Ingemar ★ Stochastic modeling in broadband communications systems. **2004b:60001**
Lange, Kenneth ★ Applied probability. **2004a:60001**
Medhi, J. ★ Stochastic models in queueing theory. **2004e:60002**
Meester, Ronald ★ A natural introduction to probability theory. **2004i:60004**
Mennucci, Andrea C. G. (*with* Mitter, Sanjoy K.) ★ Probabilità ed informazione. (Italian) [Probability theory and information] **2004g:60001**
Mitter, Sanjoy K. *see* **Mennucci, Andrea C. G.**, **2004g:60001**
Moeschlin, Otto ★ Discrete stochastics. **2004h:60001**
Paul, Wolfgang Bernhard (*with* Baschnagel, Jörg) ★ Stochastic processes. **2004m:60003**
(Poppinga, Carsten) *see* **Moeschlin, Otto**, **2004h:60001**
Sobel, Matthew J. *see* **Heyman, Daniel P.**, **2004i:60003a** *and* **2004i:60003b**
Soong, T. T. ★ Fundamentals of probability and statistics for engineers.
(Steinert, Frank) *see* **Moeschlin, Otto**, **2004h:60001**
Stirzaker, David R. ★ Elementary probability. **2004e:60003**
— *see also* **Grimmett, Geoffrey R.**, **2004m:60002**
Vere-Jones, David *see* **Daley, Daryl John**, **2004c:60001**
Yor, Marc *see* **Chaumont, L.**, **2004m:60001**

Items with secondary classifications in 60–01

Bouleau, Nicolas ★ Financial markets and martingales.
Chung, Kai Lai (*with* Zambrini, Jean-Claude) ★ Introduction to random time and quantum randomness. (English summary) **2004b:81004**
— (*with* Zambrini, Jean-Claude) ★ Introduction to random time and quantum randomness. **2004f:81001**
Gardiner, C. W. ★ Handbook of stochastic methods for physics, chemistry and the natural sciences. **2004m:00008**
Johnson, James L. ★ Probability and statistics for computer science. **2004i:62002**
Kantorovitz, Shmuel ★ Introduction to modern analysis. **2004d:00001**
Koch Medina, Pablo (*with* Merino, Sandro) ★ Mathematical finance and probability. **2004c:91051**
Merino, Sandro *see* **Koch Medina, Pablo**, **2004c:91051**
Stewart, Ian N. ★ Does God play dice? **2004b:37001**
Swift, Randall J. (*with* Switkes, Jennifer M.; Wirkus, Stephen) Perceived highway speed. (English summary)
Switkes, Jennifer M. *see* **Swift, Randall J. et al.**
(Thomas, Alan) *see* **Bouleau, Nicolas**
Wirkus, Stephen *see* **Swift, Randall J. et al.**
Zambrini, Jean-Claude *see* **Chung, Kai Lai**, **2004b:81004** *and* **2004f:81001**

60–02 Research exposition (monographs, survey articles)

Arratia, Richard (*with* Barbour, A. D.; Tavaré, Simon) ★ Logarithmic combinatorial structures: a probabilistic approach. **2004m:60004**
Asmussen, Søren ★ Applied probability and queues. **2004f:60001**
Athreya, Krishna B. (*with* Ney, Peter E.) ★ Branching processes.
Barbour, A. D. *see* **Arratia, Richard et al.**, **2004m:60004**
Breuer, Lothar ★ From Markov jump processes to spatial queues. **2004c:60002**
Buckley, James J. ★ Fuzzy probabilities. **2004e:60004**
Crauel, Hans ★ Random probability measures on Polish spaces. **2004e:60005**
Embrechts, Paul (*with* Maejima, Makoto) ★ Selfsimilar processes. (English summary) **2004c:60003**
Gzyl, Henryk ★ Diffusions and waves. (English summary) **2004a:60002**
Harris, Theodore E. ★ The theory of branching processes.
Hassin, Refael (*with* Haviv, Moshe) ★ To queue or not to queue: equilibrium behavior in queueing systems. **2004j:60001**
Haviv, Moshe *see* **Hassin, Refael**, **2004j:60001**
Hernández-Lerma, Onésimo (*with* Lasserre, Jean Bernard) ★ Markov chains and invariant probabilities. **2004b:60002**
Khoshnevisan, Davar ★ Multiparameter processes. (English summary) **2004a:60003**
Kijima, Masaaki ★ Stochastic processes with applications to finance. **2004d:60002**
Lasserre, Jean Bernard *see* **Hernández-Lerma, Onésimo**, **2004b:60002**
Maejima, Makoto *see* **Embrechts, Paul**, **2004c:60003**
Mazo, Robert M. ★ Brownian motion. **2004m:60005**
Monney, Paul-André ★ A mathematical theory of arguments for statistical evidence. **2004c:60004**
Ney, Peter E. *see* **Athreya, Krishna B.**
Novoselov, A. A. ★ Математические моделирование финансовых рисков. (Russian. Russian summary) [Mathematical modeling of financial risks] **2004b:60003**
Robert, Philippe ★ Stochastic networks and queues. **2004k:60001**
Schurz, Henri ★ Stability, stationarity, and boundedness of some implicit numerical methods for stochastic differential equations and applications. (English and German summaries)
Senn, Stephen ★ Dicing with death. **2004j:60002**
Stroock, Daniel W. ★ Markov processes from K. Itô's perspective. **2004m:60006**
Tavaré, Simon *see* **Arratia, Richard et al.**, **2004m:60004**
(Wu, Jian[2]) *see* **Xiong, Daguo**, **2004h:60002**
Xiong, Daguo ★ The natural axiom system of probability theory. **2004h:60002**

Items listed otherwise than by author

Annals of Mathematics Studies *see* **Stroock, Daniel W.**, **2004m:60006**
Progress in Mathematics *see* **Hernández-Lerma, Onésimo**, **2004b:60002**

Items with secondary classifications in 60–02

Bisgaard, Torben Maack (*with* Sasvári, Zoltán) ★ Characteristic functions and moment sequences. **2004h:60022**
(Bretthorst, G. Larry) *see* **Jaynes, E. T.**, **2004g:62006**
Cook, David B. ★ Probability and Schrödinger's mechanics. **2004i:81002**
Jaynes, E. T. ★ Probability theory. **2004g:62006**
Jerrum, Mark ★ Counting, sampling and integrating: algorithms and complexity. **2004a:68044**
Kabanov, Yu. M. (*with* Pergamenshchikov, Sergei) ★ Two-scale stochastic systems. (English summary) **2004c:93003**
Kotz, Samuel (*with* Nadarajah, Saralees) ★ Multivariate t distributions and their applications. **2004k:62011**
Nadarajah, Saralees *see* **Kotz, Samuel**, **2004k:62011**
Pergamenshchikov, Sergei *see* **Kabanov, Yu. M.**, **2004c:93003**
Sasvári, Zoltán *see* **Bisgaard, Torben Maack**, **2004h:60022**
Winkler, Gerhard ★ Image analysis, random fields and Markov chain Monte Carlo methods. **2004c:94028**

60–03 Historical (must also be assigned at least one classification number from Section 01)

Csörgő, Miklós A glimpse of the impact of Pál Erdős on probability and statistics. (English and French summaries) **2004d:60003**
(Erdős, Paul[1]) *see* **Philipp, W.**, **2004c:60005** *and* **Csörgő, Miklós**, **2004d:60003**
Forcina, Antonio Probabilistic modelling: an historical and philosophical digression. (English summary) **2004h:60003**
Kolmogorov, Andreĭ Nikolaevich Probability theory. (Russian) **2004h:60004**
— Some inequalities related to the strong law of large numbers. (Russian) **2004g:60002**
Philipp, W. The profound impact of Paul Erdős on probability limit theory—a personal account. (English summary) **2004c:60005**
Seneta, Eugene Karamata's characterization theorem, Feller, and regular variation in probability theory. (English summary) **2004c:60006**
(Shiryaev, Albert N.) *see* **Kolmogorov, Andreĭ Nikolaevich**, **2004h:60004**

Items with secondary classifications in 60–03

(Bayes, Thomas) *see* **Dale, Andrew I.**, **2004g:01031**
Bikchentaev, A. M. (*with* Mushtari, D. Kh.; Tikhonov, O. E.) Department of Probability Theory and Mathematical Statistics, 1998–2002. (Russian) **2004h:01036**
Bru, Bernard (*with* Yor, Marc) Wolfgang Doeblin et le Pli Cacheté 11668. (French summary) [Wolfgang Doeblin and Sealed Folder 11668]
(Comte, Auguste) *see* **Coumet, Ernest**, **2004g:01020**
Coumet, Ernest Auguste Comte. Le calcul des chances, aberration radicale de l'esprit mathématique. (English and French summaries) [Auguste Comte. The calculus of chance, a radical aberration of mathematical thought] **2004g:01020**
(Cournot, Antoine-Augustin) *see* **Sheĭnin, O. B.**, **2004a:01021**
Csörgő, Miklós Life is a random walk with a local time: a tribute to Pál Révész. **2004b:01035**
Dale, Andrew I. ★ Most honourable remembrance. **2004g:01031**
Derriennic, Yves Pascal et les problèmes du chevalier de Méré. De l'origine du calcul des probabilités aux mathématiques financières d'aujourd'hui. (French summary) [Pascal and the problems posed by the Chevalier de Méré. From the origin of probability theory to today's mathematics of finance] **2004d:01030**
(Dhombres, Jean) *see* **Rota, Gian-Carlo**, **2004c:01047**
(Doeblin, Wolfgang) *see* **Bru, Bernard**
Franci, Raffaella An exact solution of the problem of the divisicn points of stakes in a manuscript from the first half of the fifteenth century. (Italian) **2004f:01003**
Gani, Joseph M. (*with* Seneta, Eugene) Christopher Charles Heyde, AM, DSc, FAA, FASSA.
(Gikhman, Iosif I.) *see* **Lin′kov, Yurii N.**
(Gnedenko, Boris Vladimirovich) *see* **Korolyuk, Vladimir Semenovich**

Godard, Roger History of the least squares method and its links with the probability theory. (*see* **2004j:01005**)
Gol'dstein, Jerome A. An appreciation of my teacher, M. M. Rao. (*see* **2004k:60004**)
Green, Michael Lawson 1001 words about Rao. (*see* **2004k:60004**)
Gretsky, N. E. A guide to life, mathematical and otherwise. (*see* **2004k:60004**)
(Heyde, Christopher Charles) *see* **Gani, Joseph M.**
Jensen, Eva B. Vedel (*with* Stoyan, Dietrich) Joseph Mecke: an appreciation. **2004c:01035**
(Karpelevich, Fridrikh Izrailevich) *see* **Kreinin, A. Ya., 2004e:01047**
Knight, Frank B. An impression of P. A. Meyer as deus ex machina. (*see* **2004k:60002**)
Korolyuk, Vladimir Semenovich Speech at the opening session.
Kreinin, A. Ya. (*with* Sukhov, Yu. M.) Karpelevich's contribution to applied probability. (English summary) **2004e:01047**
Krinik, Alan C. Rao and the early Riverside years. (*see* **2004k:60004**)
(Kung, Joseph P. S.) *see* **Rota, Gian-Carlo, 2004c:01047**
Lin'kov, Yurii N. (*with* Yadrenko, Mikhail I.) To the 80th birthday of Iosif I. Gikhman. (English summary)
(Mecke, Joseph) *see* **Jensen, Eva B. Vedel, 2004c:01035**
(Meyer, Paul André) *see* **Knight, Frank B., (2004k:60002)**
Motsa, A. Ī. Professor Yurīĭ Petrovich Studnēv (on the eightieth anniversary of his birth). (Ukrainian. Ukrainian summary) **2004c:01036**
Mushtari, D. Kh. Department of Probability Theory and Mathematical Statistics (the early years). (Russian) **2004g:01045**
— *see also* **Bikchentaev, A. M. et al., 2004h:01036**
(Nekrasov, Pavel Alekseevich) *see* **Sheĭnin, O. B., 2004b:01047**
(Rao, Malempati Madhusudana) *see* **Goldstein, Jerome A., (2004k:60004); Green, Michael Lawson, (2004k:60004); Gretsky, N. E., (2004k:60004); Krinik, Alan C., (2004k:60004); Swift, Randall J., (2004k:60004)** *and* **Uhl, J. Jerry, Jr., (2004k:60004)**
(Révész, Pál) *see* **Csörgő, Miklós, 2004b:01035**
Rota, Gian-Carlo ★ Gian-Carlo Rota on analysis and probability. **2004c:01047**
(Sazonov, Vyacheslav Vasil'evich) *see* **Obituary: Sazonov, Vyacheslav Vasil'evich**
Seneta, Eugene *see* **Gani, Joseph M.**
Sheĭnin, O. B. On the probability-theoretic heritage of A. A. Cournot (on the bicentenary of his birth). (Russian. English summary) **2004a:01021**
— Nekrasov's work on probability: the background. **2004b:01047**
(Starr, Norton) *see* **Rota, Gian-Carlo, 2004c:01047**
Stoyan, Dietrich *see* **Jensen, Eva B. Vedel, 2004c:01035**
(Studnēv, Yurīĭ Petrovich) *see* **Motsa, A. Ī., 2004c:01036**
Sukhov, Yu. M. *see* **Kreinin, A. Ya., 2004e:01047**
Swift, Randall J. On M. M. Rao. (*see* **2004k:60004**)
Tikhonov, O. E. *see* **Bikchentaev, A. M. et al., 2004h:01036**
Uhl, J. Jerry, Jr. Reflections on M. M. Rao. (*see* **2004k:60004**)
Yadrenko, Mikhail I. *see* **Lin'kov, Yurii N.**
Yor, Marc *see* **Bru, Bernard**

Items listed otherwise than by author

Anniversary:
Birth of Gikhman, Iosif Il'ich *see* **Lin'kov, Yurii N.**
Birth of Studnēv, Yurīĭ Petrovich *see* **Motsa, A. Ī., 2004c:01036**
Bibliography:
Gikhman, Iosif Il'ich *see* **Lin'kov, Yurii N.**
Mecke, Joseph *see* **Jensen, Eva B. Vedel, 2004c:01035**
Rota, Gian-Carlo *see* **Rota, Gian-Carlo, 2004c:01047**
Biography:
Bayes, Thomas *see* **Dale, Andrew I., 2004g:01031**
Gnedenko, Boris Vladimirovich *see* **Korolyuk, Vladimir Semenovich**
Nekrasov, Pavel Alekseevich *see* **Sheĭnin, O. B., 2004b:01047**
Birthday:
Heyde, Christopher Charles *see* **Gani, Joseph M.**
Mecke, Joseph *see* **Jensen, Eva B. Vedel, 2004c:01035**
Collected Works:
Bayes, Thomas *see* **Dale, Andrew I., 2004g:01031**
Rota, Gian-Carlo *see* **Rota, Gian-Carlo, 2004c:01047**
Gian-Carlo Rota on analysis and probability *see* **Rota, Gian-Carlo, 2004c:01047**
Obituary:
Sazonov, Vyacheslav Vasil'evich Vyacheslav Vasil'evich Sazonov. (Russian)

60–04 Explicit machine computation and programs (not the theory of computation or programming)

Araújo, J. F. F. *see* **Campos, M. A. et al.**
Campos, M. A. (*with* Dimuro, G. P.; Costa, Antônio Carlos Da R.; Araújo, J. F. F.; Dias, A. M.) Interval probability and interval Markov chains in Maple. (Portuguese. English and Portuguese summaries)
Costa, Antônio Carlos Da R. *see* **Campos, M. A. et al.**
Dias, A. M. *see* **Campos, M. A. et al.**
Dimuro, G. P. *see* **Campos, M. A. et al.**
Golub, Gene H. *see* **Kamvar, Sepandar et al.**
Haveliwala, Taher *see* **Kamvar, Sepandar et al.**
Kamvar, Sepandar (*with* Haveliwala, Taher; Golub, Gene H.) Adaptive methods for the computation of PageRank. (English summary)

60–06 Proceedings, conferences, collections, etc.

Al'beverio, S. A. (*with* Schachermayer, Walter; Talagrand, Michel) ★ Lectures on probability theory and statistics. **2004f:60002**
(Azéma, J.) *see* **Seminar: Probability Theory, 2004k:60002**
(Banderier, Cyril) *see* **Discrete random walks, 2004j:60003**
(Berkes, István) *see* **Limit theorems in probability and statistics, 2004a:60004** *and* **2004a:60005**
(Bernard, Pierre) *see* **Al'beverio, S. A. et al., 2004f:60002**
(Buckdahn, Rainer) *see* **Stochastic processes and related topics, 2004b:60005**
(Chen, Anyue) *see* **Markov processes and controlled Markov chains, 2004f:60003**
(Cho, Yeol Je) *see* **Stochastic analysis and applications. Vol. 2, 2004j:60006** *and* **Stochastic analysis and applications. Vol. 3, 2004m:60008**
(Choi, Yong-Kab) *see* **Stochastic analysis and applications. Vol. 2, 2004j:60006** *and* **Stochastic analysis and applications. Vol. 3, 2004m:60008**
(von Collani, Elart) *see* **Defining the science of stochastics, 2004m:60007**
(Csáki, Endre) *see* **Limit theorems in probability and statistics, 2004a:60004** *and* **2004a:60005**
(Csörgő, Miklós) *see* **Limit theorems in probability and statistics, 2004a:60004** *and* **2004a:60005**
(Dshalalow, Jewgeni H.) *see* **Probability and probabilistic models**
(Émery, Michel) *see* **Seminar: Probability Theory, 2004a:60006** *and* **2004k:60002**
(Engelbert, Hans-Jürgen) *see* **Stochastic processes and related topics, 2004b:60005**
(Filar, Jerzy A.) *see* **Markov processes and controlled Markov chains, 2004f:60003**
(Gikhman, Iosif I.) *see* **Proceedings: Colloquium on Probability Theory and Mathematical Statistics**
(Gnedenko, Boris Vladimirovich) *see* **Proceedings: Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko**
(González-Barrios, José María) *see* **Stochastic models, 2004k:60003**
(Hoffmann-Jørgensen, Jørgen) *see* **High dimensional probability, 2004j:60005**
(Hou, Zhen Ting) *see* **Markov processes and controlled Markov chains, 2004f:60003**
(Kalashnikov, Vladimir Vyacheslavovich) *see* **Defining the science of stochastics, 2004m:60007**
(Karpelevich, Fridrikh Izrailevich) *see* **Analytic methods in applied probability, 2004b:60004**
(Kesten, Harry) *see* **Probability on discrete structures, 2004g:60003**
(Khokhlov, Vladimir) *see* **Proceedings: Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko**
(Kim, Jong Kyu) *see* **Stochastic analysis and applications. Vol. 2, 2004j:60006** *and* **Stochastic analysis and applications. Vol. 3, 2004m:60008**
(Klesov, O. Ī.) *see* **Proceedings: Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko**
(Korolyuk, Vladimir Semenovich) *see* **Proceedings: Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko** *and* **Proceedings: Colloquium on Probability Theory and Mathematical Statistics**
(Krattenthaler, Christian) *see* **Discrete random walks, 2004j:60003**
(Krinik, Alan C.) *see* **Stochastic processes and functional analysis, 2004k:60004**
Langville, Amy N. (*with* Stewart, William J.) Preface: [Conference on the Numerical Solution of Markov Chains 2003].
(Ledoux, M.) *see* **Seminar: Probability Theory, 2004k:60002**
(León, Jorge A.) *see* **Stochastic models, 2004k:60003**
(Limnios, Nikolaos) *see* **Semi-Markov processes: theory and applications**
(Lin, Yukweng Michael) *see* **Symposium: Nonlinear Stochastic Dynamics, IUTAM, 2004j:60007**
(Lin'kov, Yurii N.) *see* **Proceedings: Colloquium on Probability Theory and Mathematical Statistics**
(Marcus, Michael B.) *see* **High dimensional probability, 2004j:60005**
(Meda, Ana) *see* **Stochastic models, 2004k:60003**
(Osaki, Shunji) *see* **Applied stochastic system modeling**
(Paulauskas, Vygantas) *see* **Proceedings: Conference on Probability Theory and Mathematical Statistics**
(Picco, Pierre) *see* **From classical to modern probability, 2004j:60004**
(Portenko, Mikola Īvanovich) *see* **Proceedings: Colloquium on Probability Theory and Mathematical Statistics**
(Pragarauskas, H.) *see* **Proceedings: Conference on Probability Theory and Mathematical Statistics**
(Prokhorov, Yurīĭ Vasil'evich) *see* **Proceedings: Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko**
(Rao, Malempati Madhusudana) *see* **Stochastic processes and functional analysis, 2004k:60004**
(Rényi, Alfréd) *see* **75th anniversary of Alfréd Rényi**
(Révész, Pál) *see* **Limit theorems in probability and statistics, 2004a:60004** *and* **2004a:60005**
(Rudzkis, R.) *see* **Proceedings: Conference on Probability Theory and Mathematical Statistics**
(San Martín, Jaime) *see* **From classical to modern probability, 2004j:60004**
Schachermayer, Walter *see* **Al'beverio, S. A. et al., 2004f:60002**
(Sri Namachchivaya, N.) *see* **Symposium: Nonlinear Stochastic Dynamics, IUTAM, 2004j:60007**
Stewart, William J. *see* **Langville, Amy N.**
(Sukhov, Yu. M.) *see* **Analytic methods in applied probability, 2004b:60004**
(Swift, Randall J.) *see* **Stochastic processes and functional analysis, 2004k:60004**
Talagrand, Michel *see* **Al'beverio, S. A. et al., 2004f:60002**
(Wellner, Jon A.) *see* **High dimensional probability, 2004j:60005**
(Yor, Marc) *see* **Seminar: Probability Theory, 2004a:60006; 2004k:60002** *and* **Stochastic processes and related topics, 2004b:60005**

Items listed otherwise than by author

75th anniversary of Alfréd Rényi ★ Rényi Alfréd születésének 75. évfordulója. (Hungarian) [The 75th anniversary of Alfréd Rényi]
American Mathematical Society Translations, Series 2 ★ Analytic methods in applied probability. **2004b:60004**
Analytic methods in applied probability ★ Analytic methods in applied probability. **2004b:60004**
Applied stochastic system modeling ★ Applied stochastic system modeling.
Balatonlelle ★ Limit theorems in probability and statistics. Vol. I. **2004a:60004**
— ★ Limit theorems in probability and statistics. Vol. II. **2004a:60005**
Changsha ★ Markov processes and controlled Markov chains. **2004f:60003**
Chinju ★ Stochastic analysis and applications. Vol. 2. **2004j:60006**
— ★ Stochastic analysis and applications. Vol. 3. **2004m:60008**
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(Gani, Joseph M.) *see* **Stochastic methods and their applications**
(Gershwin, Stanley B.) *see* **Stochastic models of production-inventory systems. Part I** *and* **Stochastic models of production-inventory systems. Part II**
(Ghysels, Eric) *see* **Frontiers of financial econometrics and financial engineering**
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(Grzegorzewski, Przemysław) *see* **Soft methods in probability, statistics and data analysis, 2004a:62013**
(Heyde, Christopher Charles) *see* **Stochastic methods and their applications**
(Hryniewicz, Olgierd) *see* **Soft methods in probability, statistics and data analysis, 2004a:62013**
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(Papadopoulos, Chrissoleon T.) *see* **Stochastic models of production-inventory systems. Part I** *and* **Stochastic models of production-inventory systems. Part II**
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60Axx Foundations of probability theory

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60Bxx Probability theory on algebraic and topological structures

60B05 Probability measures on topological spaces

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60C05 Combinatorial probability

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Movsisyan, G. L. *see* **Leont'ev, V. K., 2004g:60014**

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Nienhuis, Bernard *see* **Mitra, Saibal, (2004j:60003)**

Oraby, Tamer F. *see* **Konsowa, Mokhtar H., 2004a:60022**

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Prodinger, Helmut *see* **Louchard, Guy, 2004j:60017**

Räcke, Harald *see* **Adler, Micah et al., 2004e:60019**

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Rapoport, Amnon *see* **Stein, William E. et al.**

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Wechsler, Sergio *see* **Esteves, Luis G. et al., 2004k:60017**

Weininger, Nicholas Positive correlation for increasing events with disjoint dependencies does not imply positive correlation for all increasing events. (English summary) **2004g:60017**

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Donetti, Luca *see* **Destri, Claudio, 2004k:82037**

Dubois, Olivier *see* **Creignou, Nadia et al., 2004b:68119**

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van der Duyn Schouten, Frank A. *see* **Bar-Lev, Shaul K. et al., 2004m:62171**

Eckmann, J.-P. *see* **Collet, Pierre, 2004h:05116**

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Greiner, Martin *see* **Glauche, Ingmar et al., 2004g:82050**
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(Grycko, Eugen) *see* **Moeschlin, Otto, 2004h:60001**
Grytczuk, Jarosław *see* **Borowiecki, Mieczysław et al., 2004e:05085**
Gupta, Anupam *see* **Dasgupta, Sanjoy, 2004b:52024**
Hajiabolhassan, Hossein *see* **Daneshgar, Amir, 2004e:05115**
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Huang, Haiyan *see* **Lippert, Ross A. et al., 2004d:62049**
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Jerrum, Mark ★ Counting, sampling and integrating: algorithms and complexity. **2004a:68044**
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Lewis, Thomas M. *see* **Khoshnevisan, Davar, 2004i:60058**
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Mahmoud, Hosam M. One-sided variations on binary search trees. (English summary) **2004k:68031**
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Makover, Eran *see* **Gamburd, Alexander, 2004b:14050**
Manca, Raimondo *see* **Blasi, Alessandro et al.**
Mansour, Yishay *see* **Alon, Noga et al., 2004g:68192**
Martin, Ryan *see* **Bohman, Tom et al., 2004a:05143; 2004k:05198; 2004m:05239** *and* **Frieze, Alan et al., 2004h:05117**
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Miyakawa, Masami *see* **Kuroki, Manabu et al., 2004d:62012**
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— *see also* **Adler, Mark, 2004g:37109**
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Neal, Peter SIR epidemics on a Bernoulli random graph. (English summary) **2004f:92032**
Neer, Judson D. *see* **Benjamin, Arthur T. et al.**
Nehéz, Martin *see* **Gašo, Ján, 2004a:68115**
Neininger, Ralph *see* **Devroye, Luc, 2004i:68253**
Obata, Nobuaki *see* **Hashimoto, Yukihiro et al., 2004f:81120**
O'Donnell, Ryan *see* **Mossel, Elchanan, 2004g:68067**
Ollivier, Yann Critical densities for random quotients of hyperbolic groups. (English and French summaries) **2004b:20106**
Oraby, Tamer F. *see* **Konsowa, Mokhtar H., 2004f:60107**
Otero, Daniel E. *see* **Benjamin, Arthur T. et al.**
Pach, János (*with* Szegedy, Mario) The number of simplices embracing the origin. (English summary) **2004m:52010**
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Panchenko, Dmitrii Anatol'evich Deviation inequality for monotonic Boolean functions with application to the number of k-cycles in a random graph. (English summary) **2004k:05181**
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Papathanasiou, Afroditi A. *see* **Tripsiannis, Gregory A. et al., 2004c:62040** *and* **2004g:62036**
Papayanopoulos, Lee Generalized variance of multivariate omega functions and duality. (English summary) **2004b:62167**
Paroissin, Christian *see* **Barrera, Javiera, 2004k:68034**
Pastor-Satorras, Romualdo *see* **Solé, Ricard V., (2004f:00010)**
Peng, Dai Yuan Random walks on directed graph. (Chinese. English and Chinese summaries) **2004j:60098**
Penman, D. B. *see* **Cannings, C., 2004c:05181**
Peres, Yuval *see* **Chen, Da Yue, (2004j:60003)**
Petit, Jordi *see* **Díaz, Josep et al., 2004b:68199**
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Philippou, Andreas N. *see* **Tripsiannis, Gregory A. et al., 2004c:62040**; **2004g:62036**; **2004j:60035** *and* **2004j:62028**
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(Poppinga, Carsten) *see* **Moeschlin, Otto, 2004h:60001**
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Rajagopal, Ram *see* **Wenzel, Lothar et al., 2004g:60022**
Rao, Nageswara S. V. Probabilistic quickest path algorithm. (English summary) **2004j:68192**
Raz, Ran *see* **Hartman, Tzvika, 2004i:05024**
Reinert, Gesine *see* **Barbour, A. D.**
Rejtő, L. (*with* Tusnády, G.) Evolution of Boolean NK-models in Tierra environment. (English summary) **2004b:60006**
Richmond, L. Bruce *see* **Bender, Edward A. et al., 2004k:05019**
Righter, Rhonda *see* **Liu, Zhen[1], 2004f:68005**
Rivals, Eric *see* **Rahmann, Sven, 2004b:68120**
Robins, James M. (*with* Scheines, Richard; Spirtes, Peter; Wasserman, Larry) Uniform consistency in causal inference. (English summary) **2004g:62014**
Rödl, Vojtěch *see* **Kohayakawa, Yoshiharu et al., 2004b:05187** *and* **2004k:05180**
Ruciński, Andrzej *see* **Greenhill, Catherine et al., 2004e:05178**
Ruszinkó, Miklós *see* **Bohman, Tom et al., 2004k:05198**
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Saloff-Coste, Laurent Random walks on finite groups. (English summary) **2004k:60133**
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Scheines, Richard *see* **Robins, James M. et al., 2004g:62014**
Segerman, Henry *see* **Dehaye, Paul-Olivier et al., 2004g:00004**
Sellers, James A. *see* **Benjamin, Arthur T. et al.**
Serna, Maria José *see* **Díaz, Josep et al., 2004b:68199**
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Shelah, Saharon Zero-one laws for graphs with edge probabilities decaying with distance. I. (English summary) **2004g:03056**
Sjöstrand, Jonas *see* **Eriksson, Henrik et al., 2004e:05177**
Sneppen, Kim *see* **Maslov, Sergei S. et al.**, (**2004f:00010**)
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Sollacher, Rudolf *see* **Glauche, Ingmar et al., 2004g:82050**
Solymosi, József *see* **Gärtner, Bernd et al., 2004m:90084**
Soshnikov, Alexander (*with* Sudakov, Benny) On the largest eigenvalue of a random subgraph of the hypercube. (English summary) **2004e:05121**
Spirtes, Peter *see* **Robins, James M. et al., 2004g:62014**
Stacey, Alan Branching random walks on quasi-transitive graphs. (English summary) **2004d:60223**
Stadje, Wolfgang *see* **Bar-Lev, Shaul K. et al., 2004m:62171**
Stanley, Richard P. Recent progress in algebraic combinatorics. (English summary) **2004b:05202**
Steel, Michael Anthony *see* **Bryant, David et al., 2004f:92003**
(Steinert, Frank) *see* **Moeschlin, Otto, 2004h:60001**
Su, Hung-Chi *see* **Dai, Ho-Kwok**, (**2004j:60003**)
Sudakov, Benny *see* **Krivelevich, Michael, 2004c:05183**; **Soshnikov, Alexander, 2004e:05121** *and* **Kim, Jeong Han et al., 2004i:05147**
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Szegedy, Mario *see* **Pach, János, 2004m:52010**
Takahashi, Daisuke[1] *see* **Itoh, Yoshiaki et al., 2004j:62221**
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Tamaki, Mitsushi *see* **Kawai, Masuyo, 2004k:60117**
Tamon, Christino *see* **Ahmadi, Amir et al., 2004m:82049**
Tamura, Tsutomu The effect of randomized low discrepancy sequences in option pricing. (Japanese. English and Japanese summaries) **2004c:91057**
Tasev, Zarko *see* **Kocarev, Ljupčo et al.**, (**2004e:93002**)
Tavaré, Simon *see* **Arratia, Richard et al., 2004m:60004**
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Tsao, C. Andy *see* **Tsay, Jyh-Jian, 2004d:62113**
Tsay, Jyh-Jian (*with* Tsao, C. Andy) Statistical gambler's ruin problem. (English summary) **2004d:62113**
Tschirschnitz, Falk *see* **Gärtner, Bernd et al., 2004m:90084**
Tshifhumulo, Tuwani Albert *see* **Prodinger, Helmut, 2004c:33035**
Tsur, Dekel *see* **Shamir, Ron**
Tusnády, G. *see* **Rejtő, L., 2004b:60006**
Tuza, Zsolt *see* **Borowiecki, Mieczysław et al., 2004e:05085**
Uglanov, A. V. Determination of the distance between two random sets. (Russian. Russian summary) **2004b:60038**
Valtr, Pavel *see* **Gärtner, Bernd et al., 2004m:90084**
Van Mieghem, Piet *see* **van der Hofstad, Remco et al., 2004b:60216**
Vieille, Nicolas *see* **Gossner, Olivier, 2004b:91025**
Vsemirnov, M. A. *see* **Franchi, Clara, 2004g:20094**
Vu, Van H. *see* **Szabó, Tibor, 2004f:05167** *and* **Kim, Jeong Han et al., 2004i:05147**
Wakeley, John *see* **Lessard, Sabin, 2004m:92024**
Warmuth, Manfred K. *see* **Takimoto, Eiji**, (**2004j:68006**)
Wasserman, Larry *see* **Robins, James M. et al., 2004g:62014**
Wästlund, Johan *see* **Linusson, Svante, 2004m:90102**
Waterman, Michael S. *see* **Lippert, Ross A. et al., 2004d:62049**
Welzl, Emo *see* **Gärtner, Bernd et al., 2004m:90084**
Wendler, Carolyn *see* **Ahmadi, Amir et al., 2004m:82049**
Wenzel, Lothar (*with* Rajagopal, Ram; Nair, Dinesh) Induced well-distributed sets in Riemannian spaces. (English summary) **2004g:60022**
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Wierman, John C. Upper and lower bounds for the Kagomé lattice bond percolation critical probability. (English summary) **2004a:60046**
Wilson, David Bruce Mixing time of the Rudvalis shuffle. (English summary) **2004d:60191**
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Wormald, Nicholas C. *see* **Greenhill, Catherine et al., 2004e:05178**
Zakharovas, Vitas The convergence rate in CLT for random variables on permutations. (English summary) **2004a:60058**
Zeilberger, Doron *see* **Foata, Dominique, 2004j:05015**
Zemmari, Akka *see* **Métivier, Yves et al., 2004e:68121**
Zhang, Rui (*with* Li, Xiu Sen; Li, Gong Sheng; Pan, Yue Jun) Testing times of detecting three different counterfeit coins. (Chinese. English summary) **2004f:05016**

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Probabilistic linguistics ★ Probabilistic linguistics.
Symposium:
Probability Theory in Linguistics ★ Probabilistic linguistics.
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60D05 Geometric probability, stochastic geometry, random sets [see also 52A22, 53C65]

Arkhangel'skiĭ, S. I. (*with* Borodikhin, V. M.) A relation between the distributions of the diameters of spherical particles and the chords of their random sections. (Russian. Russian summary) **2004f:60018**
Baddeley, Adrian *see* **Cabo, Annoesjka, 2004c:60025** *and* **Van Lieshout, Marie-Colette, 2004m:60023**
Bai, Zhi Dong (*with* Hwang, Hsien-Kuei; Tsai, Tsung-Hsi) Berry-Esseen bounds for the number of maxima in planar regions. (English summary) **2004f:60019**
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Białkowski, Marek (*with* Wesołowski, Jacek) Asymptotic behavior of some random splitting schemes. (English summary) **2004a:60028**
Blackwell, Paul G. (*with* Møller, Jesper[1]) Bayesian analysis of deformed tessellation models. (English summary) **2004d:60020**
Błaszczyszyn, Bartłomiej (*with* Schott, René) Approximate decomposition of some modulated-Poisson Voronoi tessellations. (English summary) **2004j:60020**
Böhm, Stephan (*with* Schmidt, Volker[1]) Palm representation and approximation of the covariance of random closed sets. (English summary) **2004f:60020**
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Böröczky, Károly, Jr. (*with* Reitzner, Matthias) Approximation of smooth convex bodies by random circumscribed polytopes. (English summary) **2004i:60014**
Borodikhin, V. M. *see* **Arkhangel'skiĭ, S. I., 2004f:60018**
Bosetto, Elena Problems of Buffon type for large test bodies. (English summary) **2004b:60027**
Boutet de Monvel, J. H. (*with* Martin, O. C.) Almost sure convergence of the minimum bipartite matching functional in Euclidean space. (English summary) **2004c:60024**
Bray, Brian M. Simulating transects through two-phase particles. (English summary)
Bruck, Jehoshua *see* **Booth, Lorna et al., 2004b:60026**

Cabo, Annoesjka (*with* Baddeley, Adrian) Estimation of mean particle volume using the set covariance function. (English summary) **2004c:60025**

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— An explicit expression for the distribution of the number of sides of the typical Poisson-Voronoi cell. (English summary) **2004g:60019**

— *see also* **Goldman, André**, **2004j:60023**

Capasso, Vincenzo (*with* Micheletti, Alessandra) Stochastic geometry of spatially structured birth and growth processes. Application to crystallization processes. **2004d:60021**

Caristi, Giuseppe (*with* Niglia, Andrea) Geometric probabilities for non-regular lattice. (English summary) **2004j:60021**

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Chen, Yinpu *see* **Taylor, Robert Lee et al., 2004e:60023**

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Janson, Svante *see* **Grimmett, Geoffrey R., 2004d:60022**

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Mayer, Johannes *see* **Maier, Roland et al.**

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Micheletti, Alessandra *see* **Capasso, Vincenzo, 2004d:60021**

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Nagel, Werner (*with* Weiss, Viola) Limits of sequences of stationary planar tessellations. (English summary) **2004b:60032**

Nair, Dinesh *see* **Wenzel, Lothar et al., 2004g:60022**

Niglia, Andrea *see* **Caristi, Giuseppe, 2004j:60021**

Ohser, Joachim *see* **Koch, Karsten et al., 2004m:60021**

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Raguso, Grazia *see* **De Toma, Vincenzo, 2004c:60026**

Rajagopal, Ram *see* **Wenzel, Lothar et al., 2004g:60022**

Reitzner, Matthias Random polytopes are nearly best approximating. (English summary) **2004b:60036**

— *see also* **Böröczky, Károly, Jr., 2004i:60014**

Rella, L. *see* **Pepe, F., 2004c:60030**

Reshetikhin, Nikolai *see* **Okounkov, Andrei, 2004b:60033**

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Runnenburg, J. Theo *see* **Klaassen, Chris A. J., 2004k:60024**

Rusakov, O. V. *see* **Chuprunov, A. N., 2004j:60022**

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Scarsini, Marco *see* **Dall'Aglio, Marco, 2004h:60012**

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Schmidt, Volker[1] *see* **Böhm, Stephan, 2004f:60020** *and* **Maier, Roland et al.**

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Schneider, Rolf Nonstationary Poisson hyperplanes and their induced tessellations. (English summary) **2004b:60037**

Schott, René *see* **Błaszczyszyn, Bartłomiej, 2004j:60020**

Schreiber, Tomasz Asymptotic geometry of high-density smooth-grained Boolean models in bounded domains. (English summary) **2004h:60014**

Seymour, Lynne *see* **Taylor, Robert Lee et al., 2004e:60023**

Shcherbakov, Vadim *see* **Molchanov, Ilya S., 2004j:60026**

Shi, Kai Quan *see* **Cui, Yu Quan, 2004m:60020**

Shigekawa, Ichiro *see* **Yun, Yong Sik, 2004c:60031**

Simon, Károly *see* **Peres, Yuval et al., 2004b:60035**

Solomyak, Boris *see* **Peres, Yuval et al., 2004b:60035**

Steiger, William *see* **Langerman, Stefan, 2004e:60021**

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Van Lieshout, Marie-Colette (*with* Baddeley, Adrian) Extrapolating and interpolating spatial patterns. (English summary) **2004m:60023**

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Weiss, Viola *see* **Nagel, Werner, 2004b:60032**

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Yang, Deane *see* **Lutwak, Erwin et al., 2004k:60026**

Yukich, J. E. *see* **Penrose, Mathew D., 2004b:60034**

Yun, Yong Sik (*with* Shigekawa, Ichiro) The existence of solutions for stochastic differential inclusion. (English summary) **2004c:60031**

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Graev, M. I. *see* **Gel'fand, Izrail' Moiseevich et al., 2004f:53092**

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Hu, Di He I.I.D. statistical contraction operators and statistically self-similar sets. (English summary) **2004c:28015**

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Jensen, Eva B. Vedel *see* **Hahn, Ute et al., 2004a:60094**

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Lazard, Sylvain *see* **Devillers, Olivier et al., 2004m:68256**

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Nielsen, Linda Stougaard *see* **Hahn, Ute et al., 2004a:60094**

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Peres, Yuval *see* **Holroyd, Alexander E., 2004b:60127**

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Russo, Ralph P. *see* **Najim, Christopher A., 2004f:60016**

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(Shtern, A. I.) *see* **Gel'fand, Izrail' Moiseevich et al., 2004f:53092**

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Toth, John A. *see* **Petridis, Yiannis N., 2004b:58042**

Tschirschnitz, Falk *see* **Gärtner, Bernd et al., 2004m:90084**

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Welzl, Emo *see* **Gärtner, Bernd et al., 2004m:90084**

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Zuev, S. A. *see* **Cowan, Richard et al., 2004b:60119**

60Exx Distribution theory [see also 62Exx, 62Hxx]

60E05 Distributions: general theory

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Ram, Jeta *see* **Saxena, Ram Kishore et al.**

Roberston, C. A. *see* **Arnold, Barry C., (2004a:62007)**

Rodríguez Lallena, José Antonio *see* **Nelsen, Roger B. et al., 2004b:60045; 2004j:60031** *and* **Quesada Molina, José Juan et al., (2004h:00021)**

Roohi, Ayesha *see* **Ahmad, Munir**

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Rousseau, Ronald *see* **Egghe, Leo, 2004g:60024**

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Unnikrishnan Nair, N. *see* **Satheesh, S., 2004b:60047** *and* **2004m:60031**

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Wang, Liqun *see* **Fu, James C. et al., 2004d:60028**

Wang, Yue Bao *see* **Cheng, Feng Yang, 2004g:60023**

Wesołowski, Jacek *see* **Seshadri, Vanamamalai, 2004k:60039** *and* **Dembińska, Anna, 2004m:60027**

Wirkus, Stephen *see* **Swift, Randall J. et al.**

Wolkenhauer, Olaf *see* **Nuñez Garcia, Javier et al., 2004m:60030**

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Batchelder, William H. *see* **Baldi, Pierre, 2004d:62246**

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Delafosse, Emmanuel *see* **Matthys, Gunther et al.**

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Ibragimov, Rustam *see* **Sharakhmetov, Shaturgun, 2004b:62035**

Iliopoulos, George *see* **Meintanis, Simos G., 2004f:60037**
Iosifescu, Marius On the distribution of the continued fraction approximations: optimal rates. (English summary) **2004i:11090**
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Jasiulewicz, Helena (*with* Kordecki, Wojciech) Convolutions of Erlang and of Pascal distributions with applications to reliability. (English summary) **2004c:60144**
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Jones, C. Matthew (*with* Zhiglyavskiĭ, A. A.) Approximating the negative moments of the Poisson distribution. (English summary) **2004j:62025**
Jones, Michael C. Families of distributions arising from distributions of order statistics. (English summary)
Juri, Alessandro *see* **Embrechts, Paul et al., 2004c:91048**
Kaas, Rob *see* **De Schepper, Ann et al., 2004a:62033** *and* **Dhaene, Jan et al., 2004d:91139**
Kalla, Shyam L. *see* **Saxena, Ram Kishore et al., 2004h:33027** *and* **Al-Saqabi, B. N. et al., 2004h:62020**
Kang, Shin Min *see* **Zhang, Shi Sheng et al., 2004j:47143**
Karniadakis, George Em *see* **Lucor, Didier et al., 2004m:70046**
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Khoudar, Mohamed *see* **Kokonendji, Célestin C.**
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Kibria, B. M. Golam *see* **Thabane, Lehana**
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Klüppelberg, Claudia *see* **Balkema, August A. et al., 2004f:60048**
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Kokonendji, Célestin C. (*with* Khoudar, Mohamed) On strict arcsine distribution. (English summary)
Kolassa, John E. Multivariate saddlepoint tail probability approximations. (English summary) **2004a:62044**
Kordecki, Wojciech *see* **Jasiulewicz, Helena, 2004c:60144**
Koshevoĭ, G. A. Lift-zonoid and multivariate depths. (English summary) **2004c:62029**
Kotz, Samuel Which is the right Laplace? (English summary)
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Kou, S. G. *see* **Heyde, Christopher Charles**
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Kowalczyk, T. (*with* Niewiadomska-Bugaj, M.) A new grade measure of monotone multivariate separability. (English summary)
Kuś, Marek *see* **Życzkowski, Karol et al., 2004f:15044**
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Lau, Hon-Shiang (*with* Lau, Amy Hing-Ling) Nonrobustness of the normal approximation of lead-time demand in a (Q, R) system. (English summary) **2004a:90003**
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Leemis, Lawrence M. *see* **Glen, Andrew G. et al., 2004j:62023**
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Leiva-Sánchez, Víctor *see* **Díaz-García, José A., 2004b:62028**
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Levine, Michael V. Dimension in latent variable models. (English summary) **2004f:91127**
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Li, Kaican (*with* Geng, Zhi) The noncentral Wishart distribution and related distributions. (English summary) **2004c:62032**
Lillegård, Magnar *see* **Lindqvist, Bo Henry et al., 2004b:62034**
Lillo, Rosa E. On the characterizing property of the convex conditional mean function. (English summary) **2004i:62028**
Lin, Sheng Guang *see* **Ke, Jun Bin**
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Lippert, Ross A. A matrix model for the β-Jacobi ensemble. (English summary) **2004g:62031**
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Lutwak, Erwin (*with* Yang, Deane; Zhang, Gaoyong) Moment-entropy inequalities. (English summary) **2004k:60026**
Machida, Motoya *see* **Fill, James Allen**
Malevergne, Y. (*with* Sornette, Didier) Testing the Gaussian copula hypothesis for financial assets dependences. (English summary) **2004f:91079**
Marín-Solano, Jesús *see* **Ribas, Carmen et al., 2004e:62191**
Mathew, Thomas[1] *see* **Jayakumar, K., 2004d:62302** *and* **2004d:62303**
Matias, Yossi (*with* Vitter, Jeffrey Scott; Ni, Wen-Chun) Dynamic generation of discrete random variates. (English summary) **2004d:68178**
Matsushita, Raul (*with* Rathie, Pushpa; Da Silva, Sergio) Exponentially damped Lévy flights. (English summary) **2004i:82001**
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Mazhitov, M. I. *see* **Aringazin, A. K., 2004h:82004**
Mazliak, L. *see* **Bouchard, Bruno, 2004i:46001**
McLeish, Donald L. (*with* Reesor, R. Mark) Risk, entropy, and the transformation of distributions. (English summary) **2004c:62209**
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Meister, Kadri *see* **Traat, Imbi et al.**
Michel, Philippe Gabriel Répartition des zéros des fonctions L et matrices aléatoires. (French summary) [Distribution of the zeros of L-functions and random matrices] **2004c:11167**
Mihoc, Ion (*with* Fătu-Mihoc, Cristina Ioana) About some truncated probability distributions. (English summary) **2004h:62024**
Minami, Mihoko A multivariate extension of inverse Gaussian distribution derived from inverse relationship. (English summary) **2004m:62124**
Modesti, Paola Lottery-dependent utility via stochastic benchmarking. (English summary) **2004m:91077**
Mohan, N. R. *see* **Bhattacharjee, Manish C. et al., 2004e:62024**
Mohsin, Muhammad (*with* Ahmad, Munir) Recurrence relation of moments and distributional relation of lower record values for inverse Rayleigh distribution with gamma distribution. (English summary) **2004g:60081**
Muliere, Pietro *see* **Walker, Stephen G., 2004h:60078**
Nadar, M. (*with* Hettmansperger, T. P.; Oja, Hannu) The asymptotic covariance matrix of the Oja median. (English summary) **2004h:62093**
Nadarajah, Saralees Skewed distributions generated by the uniform kernel. (English summary) **2004f:62038**
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Nelsen, Roger B. (*with* Quesada Molina, José Juan; Rodriguez Lallena, José Antonio; Úbeda Flores, Manuel) Multivariate Archimedean quasi-copulas. (English summary)
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Nguyen, Truc T. *see* **Dinh, Khoan T. et al., 2004c:62026**
Ni, Wen-Chun *see* **Matias, Yossi et al., 2004d:68178**
Niewiadomska-Bugaj, M. *see* **Kowalczyk, T.**
Oakes, David (*with* Wang, Antai) Copula model generated by Dabrowska's association measure. (English summary) **2004b:62219**
Oja, Hannu *see* **Nadar, M. et al., 2004h:62093**
Oller, J. M. *see* **Reverter, F., 2004f:62041**
Ollivier, Yann Rate of convergence of crossover operators. (English summary) **2004g:68193**
Oluyede, Broderick O. On stochastic inequalities and dependence orderings. (English summary) **2004k:60051**
Ong, Seng-Huat *see* **Gupta, Ramesh C.**
Orr, H. Allen A minimum on the mean number of steps taken in adaptive walks. (English summary)
Pachter, Meir *see* **Jacques, David R., (2004k:90008)**
(Pakes, Anthony G.) *see* **Berg, Christian, 2004j:44007**
Papathanasiou, Afroditi A. *see* **Tripsiannis, Gregory A. et al., 2004g:62036**
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Pawlas, Piotr (*with* Rychlik, Tomasz; Szynal, Dominik) On a characterization of distributions by expectations of transformed generalized order statistics. (English summary) **2004a:62037**
Pearce, Charles E. M. *see* **Dragomir, Sever Silvestru et al., 2004e:94018**
Penson, K. A. *see* **Blasiak, P. et al., 2004c:05004**
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Philippou, Andreas N. *see* **Tripsiannis, Gregory A. et al., 2004g:62036**
Picard, Dominique (*with* Tribouley, Karine) Evolutionary Pareto distributions. (English and French summaries) **2004c:62066**
Pintarelli, María B. (*with* Vericat, Fernando) Generalized Hausdorff inverse moment problem. (English summary) **2004g:82103**
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Promislow, S. David (*with* Young, Virginia R.) Decomposition properties of dual choice functionals. (English summary) **2004a:91030**
Pu, Xiao Long On the improving of cumulative sum chart. (Chinese. English and Chinese summaries) **2004h:62165**
Qaqish, Bahjat F. A family of multivariate binary distributions for simulating correlated binary variables with specified marginal means and correlations. (English summary) **2004d:62198**
Quesada Molina, José Juan *see* **Nelsen, Roger B. et al.**
Rajba, Teresa A generalization of multiply monotone functions. (English and Serbo-Croatian summaries) **2004c:26011**
Ram, Chena *see* **Saxena, Ram Kishore et al., 2004h:33027** *and* **2004h:60023**
Ramamoorthi, R. V. (*with* Draghici, L.; Dey, Jyotirmoy) Characterizations of tailfree and neutral to the right priors. (English summary) **2004d:62052**
Raqab, Mohammad Z. Generalized exponential distribution: moments of order statistics. (English summary) **2004j:62106**
Rathie, Pushpa *see* **Matsushita, Raul et al., 2004i:82001**
Ravi, Sreenivasan *see* **Bhattacharjee, Manish C. et al., 2004e:62024**
Reesor, R. Mark *see* **McLeish, Donald L., 2004c:62209**
Régnier, Mireille (*with* Denise, Alain) Rare events and conditional events on random strings. (English summary) **2004k:05018**
Resnick, Sidney I. *see* **Balkema, August A. et al., 2004f:60048**
Reverter, F. (*with* Oller, J. M.) Computing the Rao distance for gamma distributions. (English summary) **2004f:62041**
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Rinott, Yosef (*with* Rotar, Vladimir) On Edgeworth expansions for dependency-neighborhoods chain structures and Stein's method. (English summary) **2004b:62030**
Ritter, Klaus *see* **Plaskota, Leszek et al., 2004b:65221**
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Rodríquez, Juan Ramon *see* **Banaś, Józef et al., 2004c:45008**
Rogozin, B. A. A limit theorem for ratios of concentration functions. (Russian. Russian summary) **2004b:60071**
Rotar, Vladimir *see* **Rinott, Yosef, 2004h:62030**
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Rychlik, Tomasz Sharp mean-variance inequalities for quantiles of distributions determined by convex and star orders. (Russian summary) **2004f:60045**
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Sadarangani, Kishin *see* **Banaś, Józef et al., 2004c:45008**
Sanders, Richard D. *see* **Tarpey, Thaddeus, 2004m:62046**
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Saxena, Ram Kishore (*with* Ram, Chena; Singh, Hoshiyar) Applications of special functions in probability distributions. (English summary) **2004h:60023**
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Sburlati, Giovanni Random variables related to distributions of sums modulo an integer. (English summary) **2004g:11065**
Schindelin, Johannes E. *see* **Endres, Dominik M., 2004k:62024**
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Serdobol′skiĭ, V. I. Spectra of random Gram matrices of increasing dimension. (Russian)
Sethuraman, Sunder A clustering law for some discrete order statistics. (English summary) **2004g:62104**
Sharakhmetov, Shaturgun (*with* Ibragimov, Rustam) A characterization of joint distribution of two-valued random variables and its applications. (English summary) **2004b:62035**
Shimizu, Kunio (*with* Tanaka, Minoru[2]) Expected number of level-crossings for a strictly stationary ellipsoidal process. (English summary) **2004f:60084**
Shore, Haim Inverse normalizing transformations and an extended normalizing transformation. (English summary) (*see* **2004a:62007**)
— Response modeling methodology (RMM)—current distributions, transformations, and approximations as special cases of the RMM error distribution. (English summary)
(Shtern, A. I.) *see* **Gel′fand, Izraĭl′ Moiseevich et al., 2004f:53092**
Siegelmann, Hava T. *see* **Ben-Hur, Asa et al., 2004c:90020**
Simons, Gordon *see* **Csörgő, Sándor, 2004b:60063**
Singh, Hoshiyar *see* **Saxena, Ram Kishore et al., 2004h:60023**
Słomczyński, Wojciech *see* **Życzkowski, Karol et al., 2004f:15044**
Snaith, N. C. *see* **Keating, Jonathan P., 2004d:11090**
Solomon, Allan I. *see* **Blasiak, P. et al., 2004c:05004**
Sommers, Hans-Jürgen *see* **Życzkowski, Karol et al., 2004f:15044**
Sornette, Didier *see* **Malevergne, Y., 2004f:91079**
Speicher, Roland Free probability theory and random matrices. (English summary) **2004i:46099**
Stahl, Gerhard *see* **Platen, Eckhard**
Stepanov, Aleksei Vasil′evich (*with* Balakrishnan, Narayanaswamy; Hofmann, Glenn) Exact distribution and Fisher information of weak record values. (English summary) **2004d:62058**
Su, C.-H. *see* **Lucor, Didier et al., 2004m:70046**
Suarez-Llorens, Alfonso *see* **Fernandez-Ponce, J. M., 2004k:60045**
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Sun, Ping[1] Computing the 5-order sums of $\zeta(k)$. (Chinese. English and Chinese summaries) **2004i:11100**
Sunoj, S. M. *see* **Unnikrishnan Nair, N., 2004e:62029**
Szynal, Dominik *see* **Pawlas, Piotr et al., 2004a:62037** *and* **Bieniek, Mariusz, 2004g:62100**
Tagliani, Aldo Real moments from moments and vice versa. (English summary) **2004i:44009**
— *see also* **Goria, M. N., 2004i:62027**
Takahashi, Kunihiko *see* **Akahira, Masafumi, 2004a:62042**
Takano, Katsuo On certain trigonometric sums. (English summary) **2004c:33002**
Tambouratzis, D. G. *see* **Vassiliou, A. et al.**
Tanaka, Minoru[2] *see* **Shimizu, Kunio, 2004f:60084**
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60E07 Infinitely divisible distributions; stable distributions

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60E10 Characteristic functions; other transforms

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60E15 Inequalities; stochastic orderings

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Krantsberg, Alexander Khinchin and Marcinkiewicz-Zygmund-type inequalities for quadratic forms of independent random variables. (English summary) **2004e:60032**
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60Fxx Limit theorems [see also 28Dxx, 60B12]

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König, Wolfgang *see* **van der Hofstad, Remco et al., 2004e:60038**
Korolev, V. Yu. *see* **Bening, Vladimir E. et al., 2004e:60033**
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Kurtz, Thomas G. *see* **Joyce, Paul et al., 2004c:60059**
Lai, Tze Leung *see* **Chan, Hock Peng, 2004c:60054**
Larsson-Cohn, Lars L^p-norms of Hermite polynomials and an extremal problem on Wiener chaos. (English summary) **2004a:60056**
Lee, Tai Sup *see* **Kim, Tae Yoon et al., 2004d:60060**
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Lin, Zheng Yan (*with* Pang, Tianxiao) A note on weak laws of large numbers for arrays of rowwise negatively quadrant dependent random variables. (English summary) **2004k:60059**
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Mavrikiou, Petroula M. *see* **Christofides, Tasos C., 2004h:60030**
Megyesi, Zoltán *see* **Csörgő, Sándor, 2004e:60035**
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Ogura, Yukio *see* **Li, Shoumei et al., 2004j:60050**
Pang, Tianxiao *see* **Lin, Zheng Yan, 2004k:60059**
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Resnick, Sidney I. *see* **Balkema, August A. et al., 2004f:60048**
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Rogozin, B. A. A limit theorem for ratios of concentration functions. (Russian. Russian summary) **2004b:60071**
Romik, Dan *see* **Naor, Assaf, 2004d:60063**
Roos, Bero Kerstan's method for compound Poisson approximation. (English summary) **2004m:60047**
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Smith, Wendy D. *see* **Patterson, Ronald F. et al., 2004c:60064**
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Szyszkowicz, Barbara *see* **Csörgő, Miklós et al.**, **2004a:60051** *and* **2004h:60031**
Taylor, Robert Lee *see* **Patterson, Ronald F. et al.**, **2004c:60064**
Tikhomirov, A. N. *see* **Götze, Friedrich**, **2004i:60027**
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Tudor, Ciprian A. *see* **Bardina, Xavier et al.**, **2004d:60052**
Utev, Sergei *see* **Lefèvre, Claude**, **2004i:60028**
Vaičiulis, Marius Non-CLTs for sums of Appell polynomials of linear sequences. (English and Lithuanian summaries) **2004j:60052**
— Convergence of sums of Appell polynomials with infinite variance. (Russian. Russian and Lithuanian summaries) **2004m:60048**
Viharos, L. *see* **Csörgő, Sándor**, **2004d:60054**
Volodin, Andrei I. *see* **Rosalsky, Andrew**, **2004k:60062**
Wang, Dingcheng *see* **Hu, Zhi Shui et al.**, **2004a:60054**
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Zhang, Bo[5] *see* **Kruglov, V. M.**, **2004b:60069**
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Ahn, Sung K. *see* **Fotopoulos, Stergios B.**, **2004i:62158**
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Bacro, Jean-Noël (*with* Daudin, Jean-Jacques; Mercier, Sabine; Robin, Stéphane) Back to the local score in the logarithmic case: a direct and simple proof. (English summary) **2004c:60157**
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Bertoni, Alberto (*with* Choffrut, Christian; Goldwurm, Massimiliano; Lonati, Violetta) On the number of occurrences of a symbol in words of regular languages. (English summary) **2004e:68053**
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Bleher, P. M. (*with* It-s, A. R.) Double scaling limit in the random matrix model: the Riemann-Hilbert approach. (English summary) **2004e:82024**
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Dewan, Isha (*with* Prakasa Rao, B. L. S.) Mann-Whitney test for associated sequences. (English summary) **2004a:62094**
Dey, Subhrakanti *see* **Yin, Gang George**, **2004e:93098**
Dhaene, Jan *see* **Goovaerts, Marc J. et al.**
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Dunau, J. L. *see* **Chamayou, Jean-Marie-François, 2004m:39001**

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Gnedin, A. V. The Bernoulli sieve. (English summary) **2004k:60018**

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Gradinaru, Mihai (*with* Roynette, Bernard; Vallois, Pierre; Yor, Marc) The laws of Brownian local time integrals. (English summary) **2004f:60175**

Grigelionis, Bronius On point measures of ε-upcrossings for stationary diffusions. (English summary) **2004c:60225**

Griniv, O. O. *see* **Ben Arous, Gérard et al., 2004a:82031**

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Guo, Guang Yao (*with* Hu, Di He; Zeng, Hua) Some equivalence relations in Markov chains in random environments. (Chinese. English and Chinese summaries) **2004k:60270**

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Haas, Peter J. *see* **Glynn, Peter W., 2004m:60192**

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Hashimoto, Yukihiro (*with* Hora, Akihito; Obata, Nobuaki) Central limit theorems for large graphs: method of quantum decomposition. (English summary) **2004f:81120**

Haydn, Nicolai *see* **Ferrero, Pierre Robert et al., 2004d:37009**

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Herkenrath, Ulrich (*with* Iosifescu, Marius; Rudolph, Andreas) A note on invariance principles for iterated random functions. **2004f:60072**

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den Hollander, Frank *see* **van der Hofstad, Remco et al., 2004i:60029**

Hong, Han (*with* Tamer, Elie) Inference in censored models with endogenous regressors. (English summary) **2004e:62036**

Hooghiemstra, Gerard *see* **van der Hofstad, Remco et al., 2004b:60216**

Hora, Akihito *see* **Hashimoto, Yukihiro et al., 2004f:81120**

Horváth, Lajos Approximations for randomly accelerated motions. (English summary) **2004c:60243**

Hu, Di He *see* **Guo, Guang Yao et al., 2004k:60270**

Hu, Tai Zhong *see* **Yuan, Ming et al., 2004j:60107**

Hu, Zhi Shui (*with* Su, Chun) Limit theorems for the number and sum of near-maxima for medium tails. (English summary) **2004h:60042**

— *see also* **Su, Chun, 2004a:60102**

Huillet, Thierry Random covering of the circle: the size of the connected components. (English summary) **2004f:60021**

Hwang, Hsien-Kuei *see* **Bai, Zhi Dong et al., 2004f:60019**

Ibragimov, Rustam *see* **Sharakhmetov, Shaturgun, 2004b:62035**

Inahama, Yuzuru Convergence of finite dimensional distributions of heat kernel measures on loop groups. (English summary) **2004b:58061**

Iosifescu, Marius *see* **Herkenrath, Ulrich et al., 2004f:60072**

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Jensen, Søren Tolver (*with* Rahbek, Anders) Asymptotic normality of the QMLE estimator of ARCH in the nonstationary case. (English summary) **2004j:62182**

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Jucá, Iana B. *see* **Powers, Michael R. et al., 2004b:91117**

Jurlewicz, Agnieszka Stochastic foundations of the universal dielectric response. (English summary) **2004k:82095**

Kaas, Rob *see* **Goovaerts, Marc J. et al.**

Kakizawa, Yoshihide Edgeworth approximation in the O-U process. (English summary) **2004e:62030**

Kako, D. *see* **Gauthier, Geneviève et al., 2004f:60205**

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Kats, I. Ya. (*with* Martynyuk, A. A.) ★ Stability and stabilization of nonlinear systems with random structure. **2004b:34004**

Kazimirov, N. I. The occurrence of a gigantic component in a random permutation with a known number of cycles. (Russian. Russian summary) **2004i:60013**

Kim, Sungyeun *see* **Bae, Jongsig, 2004f:62084**

Kim, Tae-Sung[1] (*with* Ko, Mi-Hwa; Yoo, Yeon-Sun) Estimation of the distribution function for stationary random fields of associated processes. (English summary) **2004m:60063**

Klebanov, Lev B. (*with* Székely, Gábor J.; Steele, John A.) The limit theorem of hierarchical structures. (English summary) **2004d:62351**

Klüppelberg, Claudia (*with* Mikosch, Thomas; Schärf, Anette) Regular variation in the mean and stable limits for Poisson shot noise. (English summary) **2004i:60067**

Ko, Mi-Hwa *see* **Kim, Tae-Sung[1] et al., 2004m:60063**

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Kolev, Nikolaĭ V. (*with* Mutafchiev, Lyuben R.) A zero-inflated occupancy distribution: exact results and Poisson convergence. (English summary) **2004b:60019**

Komech, A. I. *see* **Dudnikova, T. V. et al., 2004c:82066** *and* **2004k:82053**

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König, Wolfgang *see* **van der Hofstad, Remco et al., 2004i:60029**

Koul, Hira L. (*with* Qian, Lianfen; Surgailis, Donatas) Asymptotics of M-estimators in two-phase linear regression models. (English summary) **2004b:62075**

Koval′, Valerii A. (*with* Schwabe, Rainer) A law of the iterated logarithm for stochastic approximation procedures in d-dimensional Euclidean space. (English summary) **2004b:60102**

Kozak, Agnieszka (*with* Kozitskiĭ, Yu. V.) A nonlinear dynamical system as a solution of a FDE in a Hilbert space. (English summary) **2004d:47126**
Kozitskiĭ, Yu. V. *see* **Kozak, Agnieszka**, **2004d:47126**
Kozlov, M. V. On Erdős-Rényi partial sums: large deviations, conditional behavior. (Russian. Russian summary) **2004e:60045**
Kozubowski, Tomasz J. (*with* Podgórski, Krzysztof) A log-Laplace growth rate model. (English summary) **2004k:60033**
Kuczmaszewska, Anna On Chung-Teicher type strong law for arrays of vector-valued random variables. (English summary) **2004m:60011**
Lacaux, Céline Series representation and simulation of multifractional Lévy motions. (English summary) **2004k:60041**
Lai, Tze Leung *see* **Chan, Hock Peng**, **2004g:60040**
Lamberton, Damien (*with* Pagès, Gilles) Recursive computation of the invariant distribution of a diffusion. (English summary) **2004b:60193**
Larramendy, Irène *see* **Fabre, Jean-Pierre**, **2004a:62155**
Laurinčikas, Antanas Limit theorems for general Dirichlet series. (English summary) **2004m:11140**
Leipus, Remigijus (*with* Surgailis, Donatas) Random coefficient autoregression, regime switching and long memory. (English summary) **2004d:62307**
Leybourne, Stephen *see* **Harris, David[3] et al.**, **2004e:62018**
Li, Gang[5] *see* **Fu, James C. et al.**, **2004b:60181**
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Liang, Han Ying (*with* Chen, Zhi Jing; Su, Chun) Convergence of Jamison-type weighted sums of pairwise negatively quadrant dependent random variables. (English summary) **2004f:60067**
Lin, Zheng Yan Asymptotic normality of kernel estimates of a density function under association dependence. (English summary) **2004c:62091**
Lindlbauer, Marc (*with* Voit, Michael) Limit theorems for isotropic random walks on triangle buildings. (English summary) **2004e:43009**
Litvak, Nelly (*with* van Zwet, Willem R.) On the minimal travel time needed to collect n items on a circle. (English summary) **2004m:90006**
Ljung, Lennart *see* **Xie, Liang Liang**, **2004j:62194**
Lonati, Violetta *see* **Bertoni, Alberto et al.**, **2004e:68053**
Lou, W. Y. Wendy *see* **Fu, James C. et al.**, **2004b:60181**
Mačiulis, A. Some formulas for the moments of additive functions. (English summary) **2004a:11103**
Maejima, Makoto *see* **Embrechts, Paul**, **2004c:60003**
Maiboroda, Rostislav E. A least squares estimator for the parameter of concentrations of varying mixtures. I. Consistency. (Ukrainian. Ukrainian summary) **2004e:62077**
Majumdar, Mukul *see* **Athreya, Krishna B.**, **2004i:60101**
Marchal, Philippe *see* **Doney, R. A.**, **2004c:60141**
Marcheselli, Marzia Asymptotic results in jackknifing nonsmooth functions of the sample mean vector. (English summary) **2004k:62109**
Marckert, Jean-François (*with* Mokkadem, Abdelkader) Ladder variables, internal structure of Galton-Watson trees and finite branching random walks. (English summary) **2004f:60182**
— The rotation correspondence is asymptotically a dilatation. (English summary) **2004j:05041**
— *see also* **Chassaing, Philippe et al.**, **2004j:68202**
Martynyuk, A. A. *see* **Kats, I. Ya.**, **2004b:34004**
Mas, André (*with* Menneteau, Ludovic) Perturbation approach applied to the asymptotic study of random operators. (English summary) **2004m:47081**
Masry, Elias Local polynomial fitting under association. (English summary) **2004e:62089**
Maume-Deschamps, Véronique *see* **Buzzi, Jérôme**, **2004m:37002**
McCabe, Brendan *see* **Harris, David[3] et al.**, **2004e:62018**
Meda, Ana Conditional weak laws in Banach spaces. (English summary) **2004b:60083**
Medvedev, Yu. I. *see* **Ivchenko, G. I.**, **2004c:60022**
Meerschaert, Mark M. (*with* Sepanski, Steven J.) Regular variation and the functional central limit theorem for heavy tailed random vectors. (English summary) **2004c:60091**
Melbourne, Ian *see* **Ådahl, Markus et al.**, **2004a:37012** *and* **Field, Michael et al.**, **2004m:37046**
Menneteau, Ludovic *see* **Mas, André**, **2004m:47081**
Mercier, Sabine *see* **Bacro, Jean-Noël et al.**, **2004c:60157**
Mikhaĭlov, V. G. Estimation of the accuracy of compound Poisson approximation for the distribution of the number of coinciding chains. (Russian. Russian summary) **2004d:60048**
Mikosch, Thomas *see* **Klüppelberg, Claudia et al.**, **2004i:60067**
Minlos, Robert A. *see* **Boldrighini, Carlo et al.**, **2004b:60179** *and* **2004m:60223**
Minozzo, M. Purely game-theoretic random sequences. II. Limiting empirical distributions and strong central limit theorem. (Russian summary) **2004d:60006**
Misevičius, Gintautas On large deviations in the theorem of Fortet-Kac for unbounded functions. (English summary) **2004a:60066**
Mitov, Kosto V. *see* **Yanev, George P. et al.**, **2004k:60235**
Mokkadem, Abdelkader *see* **Marckert, Jean-François**, **2004f:60182**
Molchanov, Ilya S. *see* **Chiu, S. N.**, **2004b:60028**
Molchanov, Stanislav Alekseevich *see* **Ben Arous, Gérard et al.**, **2004a:82031**
Molina Fernández, Manuel *see* **Gonzalez-Velasco, Miguel et al.**
Móri, Tamás F. Separating systems of random subsets. (English summary) **2004d:60023**
Morozov, Evsei Instability of nonhomogeneous queueing networks. **2004a:60152**
Mossel, Elchanan (*with* Peres, Yuval) Information flow on trees. (English summary) **2004e:60143**
Mutafchiev, Lyuben R. Erratum to: "Limiting distributions for the number of distinct component sizes in relational structures" [J. Combin. Theory Ser. A **79** (1997), no. 1, 1–35; MR 98f:05011]. (English summary) **2004h:05009**
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Nadarajah, Saralees *see* **Peng, Zuo Xiang**, **2004g:60058**
Nagaev, A. V. Limit theorems and testing hypotheses on Markov chains. (Russian. Russian summary) **2004m:60153**
Najim, Christopher A. (*with* Russo, Ralph P.) On the number of subgraphs of a specified form embedded in a random graph. (English summary) **2004f:60016**
Neal, Peter *see* **Ball, Frank**, **2004i:60119**
Neammanee, K. Cauchy approximation for sums of independent random variables. (English summary) **2004c:60049**
— A nonuniform bound for the approximation of Poisson binomial by Poisson distribution. (English summary) **2004g:62037**
Negrea, Romeo On some applications of Stein's method. **2004b:62042**
Nevzorov, V. B. *see* **Kan, N. D.**, **2004m:60015**
Ng, Kai Wang (*with* Tang, Qi-he; Yan, Jia-An; Yang, Hailiang) Precise large deviations for the prospective-loss process. (English summary) **2004b:60085**
Nguyen Van Quang On the weak law of large numbers for d-dimensional arrays in von Neumann algebra. (English summary) **2004k:46111**
Nicol, Matthew *see* **Ådahl, Markus et al.**, **2004a:37012**
Obata, Nobuaki *see* **Hashimoto, Yukihiro et al.**, **2004f:81120**
Offinger, Robert *see* **Gaffke, Norbert et al.**, **2004a:62055**
Olla, Stefano *see* **Komorowski, Tomasz**, **2004i:60151**
Owhadi, Houman Anomalous slow diffusion from perpetual homogenization. (English summary) **2004i:60113**
Pagès, Gilles *see* **Lamberton, Damien**, **2004b:60193**
Panholzer, Alois Non-crossing trees revisited: cutting down and spanning subtrees. (English summary) **2004m:60017**
— (*with* Prodinger, Helmut) Spanning tree size in random binary search trees. (English summary) **2004k:68032**
Pavlov, Yu. L. (*with* Cherepanova, E. V.) Limit distribution for the number of pairs in a generalized scheme of arrays. (Russian. Russian summary) **2004a:60025**
Pellegrinotti, Alessandro *see* **Boldrighini, Carlo et al.**, **2004b:60179** *and* **2004m:60223**
Peng, Zuo Xiang (*with* Nadarajah, Saralees) On the joint limiting distribution of sums and maxima of stationary normal sequences. (Russian summary) **2004g:60058**
Perera, Gonzalo (*with* Wschebor, Mario) Inference on the variance and smoothing of the paths of diffusions. (English and French summaries) **2004d:62176**
Peres, Yuval *see* **Mossel, Elchanan**, **2004e:60143**
Petrov, Valentin Vladimirovich *see* **Gut, Allan**, **2004f:60063**
Philippe, Anne *see* **Fay, Gilles**, **2004f:62048**
Podgórski, Krzysztof *see* **Kozubowski, Tomasz J.**, **2004k:60033**
Pötscher, Benedikt M. (*with* Prucha, Ingmar R.) Basic elements of asymptotic theory. (*see* **2004j:62006**)
Powers, Michael R. (*with* Venezian, Emilio C.; Jucá, Iana B.) Of happy and hapless regulators: the asymptotics of ruin. (English summary) **2004b:91117**
Prakasa Rao, B. L. S. *see* **Dewan, Isha**, **2004a:62094**
Prodinger, Helmut *see* **Panholzer, Alois**, **2004k:68032**
Prucha, Ingmar R. *see* **Pötscher, Benedikt M.**, (**2004j:62006**)
del Puerto, Inés *see* **Gonzalez-Velasco, Miguel et al.**
Qian, Lianfen *see* **Koul, Hira L. et al.**, **2004b:62075**
Račkauskas, Alfredas (*with* Suquet, Charles) On the Hölderian functional central limit theorem for i.i.d. random elements in Banach space. (English summary) **2004c:60015**
Rahbek, Anders *see* **Jensen, Søren Tolver**, **2004j:62182**
Ratanov, N. E. *see* **Dudnikova, T. V. et al.**, **2004c:82066**
Reinert, Gesine *see* **Barbour, A. D.**
Resnick, Sidney I. On the foundations of multivariate heavy-tail analysis. (English summary)
Richter, Wolf-Dieter Central limit theorem for probabilities of correct classification. (English summary) **2004a:62118**
Robert, Philippe *see* **Fricker, Christine et al.**, **2004a:60144**
Robin, Stéphane *see* **Bacro, Jean-Noël et al.**, **2004c:60157**
Roos, Bero Poisson approximation of multivariate Poisson mixtures. (English summary) **2004c:60036**
Rosalsky, Andrew (*with* Sreehari, M.; Volodin, Andrei I.) A weak law with random indices for randomly weighted sums of rowwise independent random elements in Rademacher type p Banach spaces. (English summary) **2004f:60009**
— *see also* **Csörgő, Sándor**, **2004i:60034**
Rösler, Uwe *see* **Caliebe, Amke**, **2004d:60039**
Roynette, Bernard *see* **Gradinaru, Mihai et al.**, **2004f:60175**
Rozovskiĭ, L. V. The central limit theorem for the moments of sums of independent random variables. **2004d:60117**
— On superlarge deviations of a sum of independent random variables with a common absolutely continuous distribution satisfying the Cramer condition. (Russian. Russian summary) **2004i:60062**
Rudolph, Andreas Inhomogeneous vectorial λ ARCH models and a central limit theorem. (English summary) **2004b:60177**
— *see also* **Herkenrath, Ulrich et al.**, **2004f:60072**
Russo, Ralph P. *see* **Najim, Christopher A.**, **2004f:60016**
Ruymgaart, Frits Sample quantiles for locally dependent processes. (English summary) **2004k:62136**
Rychlik, Zdzisław *see* **Fazekas, István**, **2004d:60077** *and* **2004i:60035**
Sambucini, Anna Rita *see* **Balder, Erik J.**, **2004j:60062**
Saracco, Jérôme *see* **Gannoun, Ali et al.**, **2004g:62071**
Schärf, Anette *see* **Klüppelberg, Claudia et al.**, **2004i:60067**
Schwabe, Rainer *see* **Kovaĭ, Valerii A.**, **2004b:60102**
Senatov, V. V. On estimation of the approximation error in asymptotic expansions in the central limit theorem. **2004b:62044**
Sepanski, Steven J. A law of the iterated logarithm for the sample covariance matrix. (English summary) **2004i:60040**
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Seppäläinen, Timo (*with* Sethuraman, Sunder) Transience of second-class particles and diffusive bounds for additive functionals in one-dimensional asymmetric exclusion processes. (English summary) **2004a:60164**
Sethuraman, Sunder Conditional survival distributions of Brownian trajectories in a one dimensional Poissonian environment. (English summary) **2004b:60229**
— *see also* **Seppäläinen, Timo**, **2004a:60164**

Seymour, Lynne *see* **Taylor, Robert Lee et al., 2004e:60023**
Shao, Qi-Man *see* **Jing, Bing-Yi et al., 2004k:60069**
Sharakhmetov, Shaturgun (*with* Ibragimov, Rustam) A characterization of joint distribution of two-valued random variables and its applications. (English summary) **2004b:62035**
Shephard, Neil *see* **Barndorff-Nielsen, Ole E., 2004d:91098**
Sibbertsen, Philipp *see* **Beran, Jan et al., 2004g:62069**
Silvestrov, Dmitrii Limit theorems for randomly stopped stochastic processes. (English summary) **2004j:60011**
Spohn, Herbert *see* **Dudnikova, T. V. et al., 2004k:82053**
Sreehari, M. *see* **Rosalsky, Andrew et al., 2004f:60009**
Stachurski, John Stochastic growth: asymptotic distributions. (English summary) **2004i:91142**
Steele, John A. *see* **Klebanov, Lev B. et al., 2004d:62351**
Su, Chun (*with* Hu, Zhi Shui) The asymptotic distributions of sums of record values for distributions with regularly varying tails. **2004a:60102**
— *see also* **Liang, Han Ying et al., 2004f:60067**; **Hu, Zhi Shui, 2004h:60042** *and* **Yuan, Ming et al., 2004j:60107**
Sukhov, Yu. M. *see* **Dudnikova, T. V. et al., 2004c:82066**
Suquet, Charles *see* **Račkauskas, Alfredas, 2004c:60015**
Surgailis, Donatas *see* **Koul, Hira L. et al., 2004b:62075** *and* **Leipus, Remigijus, 2004d:62307**
Svishchuk, A. V. (*with* Wu, Jian Hong) Averaging and diffusion approximation of vector difference equations in random media with applications to biological systems. (English summary)
Székely, Gábor J. *see* **Klebanov, Lev B. et al., 2004d:62351**
Tamer, Elie *see* **Hong, Han, 2004e:62036**
Tan, Xi Li (*with* Yang, Xiao Yun) The central limit theorem for the sum of a random number of m-dependent B-valued random variables. (Chinese. English and Chinese summaries) **2004i:60009**
Tang, Lingqi *see* **Wang, Yao Hung, 2004k:60248**
Tang, Qi-he *see* **Ng, Kai Wang et al., 2004b:60085**
Tanré, Etienne *see* **Deaconu, Madalina et al., 2004m:82093**
Taylor, Robert Lee (*with* Seymour, Lynne; Chen, Yinpu) Weak laws of large numbers for fuzzy random sets. (English summary) **2004e:60023**
Temido, M. Graça New limiting distributions of maxima of independent random variables. (English summary) **2004k:60040**
Tibi, Danielle *see* **Fricker, Christine et al., 2004a:60144**
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Vinogradov, V. V. *see* **Jørgensen, Bent**, **2004f:60035**

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60F15 Strong theorems

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Randrianantoanina, Narcisse Non-commutative subsequence principles. (English summary) **2004k:46106**

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Richardson, Gary D. *see* **Bhattacharyya, B. B. et al.**, **2004j:62045**

Rio, Emmanuel *see* **Liu, Quansheng et al.**, **2004k:60144**

Rosalsky, Andrew *see* **Cantrell, Amy**, **2004k:60011**

Rouault, Alain *see* **Liu, Quansheng et al.**, **2004k:60144**

Russo, Ralph P. *see* **Najim, Christopher A.**, **2004f:60016**

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Doukhan, Paul *see* **Dedecker, Jérôme**, **2004c:60111**
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Kochar, Subhash C. *see* **El Barmi, Hammou et al.**, **2004h:62059**
Konstantopoulos, T. *see* **Foss, S. G.**, **2004k:60097**
Kraaikamp, Cor *see* **Iosifescu, Marius**, **2004b:11113**
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Lakhel, El Hassan *see* **Ait Ouahra, M. et al.**, **2004j:60130**
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Melbourne, Ian *see* **Ådahl, Markus et al.**, **2004a:37012** *and* **Field, Michael et al.**, **2004m:37046**
Merlevède, Florence *see* **Dedecker, Jérôme**, **2004j:60046**
Michna, Zbigniew α-stable limits for multiple channel queues in heavy traffic. (English summary) **2004e:60153**
Mukerjee, Hari *see* **El Barmi, Hammou et al.**, **2004h:62059**
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Nicol, Matthew *see* **Ådahl, Markus et al.**, **2004a:37012**
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Pasarica, Cristian *see* **Liu, Xin et al.**, **2004f:62053**
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Rubenthaler, Sylvain (*with* Wiktorsson, Magnus) Improved convergence rate for the simulation of stochastic differential equations driven by subordinated Lévy processes. (English summary) **2004j:60127**
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Rychlik, Zdzisław *see* **Fazekas, István**, **2004d:60077** *and* **2004i:60035**
Samaniego, Francisco J. *see* **El Barmi, Hammou et al.**, **2004h:62059**
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60F20 Zero-one laws

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60Gxx Stochastic processes

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60G05 Foundations of stochastic processes

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60G07 General theory of processes

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"Determinism is not a curse. Examples of stationary strongly dependent processes whose density can be estimated with optimal i.i.d. rate" Erratum: "Determinism is not a curse. Examples of stationary strongly dependent processes whose density can be estimated with optimal i.i.d. rate" [J. Nonparametr. Stat. **15** (2003), no. 4-5, 479–483] by S. Lardjane.

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60G12 General second-order processes

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60G17 Sample path properties

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60G20 Generalized stochastic processes

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60G25 Prediction theory [see also 62M20]

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60G30 Continuity and singularity of induced measures

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60G40 Stopping times; optimal stopping problems; gambling theory [see also 62L15, 91A60]

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60G42 Martingales with discrete parameter

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60G46 Martingales and classical analysis

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60G48 Generalizations of martingales

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60G50 Sums of independent random variables; random walks

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Nagaev, S. V. *see* **Aleškevičienė, Aldona Kazio**, **2004g:60067**
O'Connell, Neil A path-transformation for random walks and the Robinson-Schensted correspondence. (English summary) **2004f:60109**
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Shirai, Tomoyuki Long time behavior of the transition probability of a random walk with drift on an abelian covering graph. (English summary) **2004f:60110**
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Su, Chun *see* **Hu, Zhi Shui, 2004k:60127**
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Tsohantjis, Ioannis *see* **Ellinas, Demosthenes, 2004f:60102**
Tsurumi, Hiroki *see* **Goldman, Elena, 2004f:60104**
Vishnoi, Nisheeth Non uniform random walks. (English summary) **2004k:60135**
Wilson, David Bruce *see* **Benjamini, Itai, 2004b:60120**
Yan, Catherine H. *see* **Dumitriu, Ioana et al., 2004d:60112**
Yor, Marc *see* **Chernyĭ, A. S. et al., 2004b:60121**
Zachary, S. *see* **Foss, S. G., 2004d:60113**

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Drekic, Steve *see* **Dickson, David C. M.**
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Gallardo, Léonard A multidimensional central limit theorem for random walks on hypergroups. (English summary) **2004b:60064**
Gamkrelidze, N. (*with* Shervashidze, T.) On a local limit theorem for lattice distributions. (English and Georgian summaries) **2004c:60058**
Gantert, Nina *see* **Berger, Noam et al., 2004h:60149**
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Gioev, Dimitri Lower order terms in Szegő theorems on Zoll manifolds. (English summary) **2004e:58044**
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Goldberg, Paul W. *see* **Şahinalp, Süleyman Cenk et al.**
Golowich, Steven E. The nearest-neighbor self-avoiding walk with complex killing rates. (English summary) **2004j:82020**
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Gut, Allan (*with* Petrov, Valentin Vladimirovich) Generalized laws of the iterated logarithm. (English summary) **2004f:60063**
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Hajiabolhassan, Hossein *see* **Daneshgar, Amir**, **2004e:05115**
Haveliwala, Taher *see* **Kamvar, Sepandar et al.**
Havlin, Shlomo *see* **Viswanathan, G. M. et al.**, **2004a:92047**
Heath, Susan (*with* Shepp, Larry) Olbers' paradox, wireless telephones, and Poisson random sets. Is the universe finite? (English summary) **2004m:82046**
Hikami, Kazuhiro (*with* Imamura, Takashi) Vicious walkers and hook Young tableaux. (English summary) **2004f:82025**
Hoefs, Volker *see* **Alsmeyer, Gerold**, **2004m:60191**
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Hordijk, Arie (*with* Popov, Nikolai) Large deviations bounds for face-homogeneous random walks in the quarter-plane. (English summary) **2004f:60057**
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Imamura, Takashi *see* **Hikami, Kazuhiro**, **2004f:82025**
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Millett, Kenneth C. *see* **Dobay, Akos et al.**, **2004f:82024**
Minlos, Robert A. *see* **Boldrighini, Carlo et al.**, **2004m:60223**
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Mokkadem, Abdelkader *see* **Marckert, Jean-François**, **2004f:60182** *and* **2004g:60120**
Monaco, C. A. *see* **ben-Avraham, Daniel et al.**, **2004a:82084**
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Mosbah, Mohamed *see* **Bonichon, Nicolas**, **2004m:05032**
Moustafa, H. M. *see* **Abdel-All, Nassar H. et al.**, **2004f:62022**
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Nowicki, Krzysztof *see* **Klass, Michael J.**, **2004f:60038**
O'Connell, Neil Conditioned random walks and the RSK correspondence. (English

summary) **2004e:05201**
— *see also* **Draief, Moez et al., 2004m:60202**
Oraby, Tamer F. *see* **Konsowa, Mokhtar H., 2004a:60022**
Ordóñez Cabrera, Manuel *see* **Hu, Tien-Chung et al., 2004e:60050**
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Peres, Yuval *see* **Berger, Noam et al., 2004h:60149** *and* **Lyons, Russell et al., 2004j:60153**
Petkovšek, Marko *see* **Bousquet-Mélou, Mireille, 2004k:05010**
Petritis, Dimitri *see* **Menshikov, Mikhail et al., (2004j:60003)**
Petrov, A. I. *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Petrov, Valentin Vladimirovich *see* **Gut, Allan, 2004f:60063**
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Révész, Pál *see* **Csáki, Endre et al., 2004m:60218**
Rolles, Silke W. W. *see* **Matzinger, Heinrich[2], 2004b:60231**
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Rybko, A. N. *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Sabot, Christophe *see* **Enriquez, Nathanaël, 2004c:60272**
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Shao, Qi-Man *see* **Jing, Bing-Yi et al., 2004k:60069**
Sharakhmetov, Shaturgun *see* **Ibragimov, Rustam, 2004c:60044**
Shepp, Larry *see* **Heath, Susan, 2004m:82046**
Shervashidze, T. *see* **Gamkrelidze, N., 2004c:60058**
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Stasiak, Andrzej *see* **Dobay, Akos et al., 2004f:82024**
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Sung, Soo Hak *see* **Hu, Tien-Chung et al., 2004e:60050**
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Świtała, Filip *see* **Kutner, Ryszard**
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Székely, Balázs *see* **Szabados, Tamás, 2004c:60099**
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Tadić, Bosiljka Temporal fractal structures: origin of power laws in the World-Wide Web. (English summary) **2004b:82052**
Tamon, Christino *see* **Ahmadi, Amir et al., 2004m:82049**
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Trachsler, Beat *see* **Simon, Klaus, (2004j:60003)**
Unver, I. *see* **Khaniev, Tahir A. et al., 2004k:60244**
Vaičiulis, Marius Non-CLTs for sums of Appell polynomials of linear sequences. (English and Lithuanian summaries) **2004j:60052**
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Vatutin, Vladimir *see* **Topchii, Valentin, 2004m:60186**
Vereecken, Harry *see* **Vamoş, Călin et al., 2004h:65010**
Virág, Bálint *see* **Angel, Omer et al., 2004f:60201**
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Voituriez, Raphaël *see* **Nechaev, Sergei, 2004e:82028**
Volodin, Andrei I. *see* **Hu, Tien-Chung et al., 2004e:60050**
Wang, Qiying *see* **Jing, Bing-Yi et al., 2004k:60069**
Weiss, George H. *see* **Larralde, Hernán**
Wendler, Carolyn *see* **Ahmadi, Amir et al., 2004m:82049**
Whitcher, Brandon *see* **Fan, Yanqin, 2004j:62173**
Wirtz, Denis *see* **Zhou, Yu[3] et al., 2004f:82028**
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Wu, Da (*with* Bening, Vladimir E.) Approximation of the necessary capital reserve for an insurance company in the case of a large number of nonhomogeneous contracts. (Russian. Russian summary) **2004a:91086**
Yan, Jia-An *see* **Ng, Kai Wang et al., 2004b:60085**
Yang, Hailiang *see* **Ng, Kai Wang et al., 2004b:60085**
Yor, Marc *see* **Chassaing, Philippe et al., 2004j:68202**
Yoshida, Nobuo *see* **Tanemura, Hideki, 2004e:82031**
Zeitouni, Ofer *see* **Bolthausen, Erwin et al., 2004d:60256**
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Zhao, Ming Qing *see* **Gao, Ming Mei, 2004h:91074**
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Zucca, Fabio *see* **Bertacchi, Daniela, 2004i:60103**

60G51 Processes with independent increments

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Quine, Malcolm *see* **Cowan, Richard et al., 2004b:60119**
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Reiss, Rolf-Dieter *see* **Kaufmann, Edgar, 2004d:60129**
Ribeiro, Paulo J., Jr. *see* **Schlather, Martin et al.**
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Stoyan, Dietrich *see* **Ghorbani, Hamid**
Sun, Don X. *see* **Cao, Jin et al., (2004d:62006)**
Szekli, Ryszard *see* **Daduna, Hans, 2004i:60135**
Szkutnik, Zbigniew Doubly smoothed EM algorithm for statistical inverse problems. (English summary) **2004a:62082**
Takahashi, Yoichiro *see* **Shirai, Tomoyuki, 2004k:60146**
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Takayasu, Misako (*with* Takayasu, Hideki) Self-modulation processes and resulting generic $1/f$ fluctuations. (English summary) **2004m:62045**
Tanemura, Masaharu *see* **Ogata, Yosihiko et al.**
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Thorisson, Hermann On stationary and cycle-stationary sequences. (English summary) **2004c:60115**
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Turkman, K. F. *see* **Scotto, M. G. et al., 2004h:62166**
Vere-Jones, David *see* **Daley, Daryl John, 2004c:60001**
Waagepetersen, Rasmus Plenge *see* **Møller, Jesper**[1], **2004h:62003**
Wälder, K. *see* **Näther, Wolfgang**
Waters, Howard R. *see* **Cardoso, Rui M. R., 2004i:60104**
Weil, Wolfgang *see* **Hug, Daniel et al., 2004c:60029**
Weiss, Viola *see* **Nagel, Werner, 2004b:60032**
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Zacks, Shelemyahu *see* **Perry, David et al., 2004i:60143** *and* **Stadje, Wolfgang, 2004j:60087**
(Zhang, Xiaolan) *see* **Gerber, Hans U.**
Zuev, S. A. *see* **Cowan, Richard et al., 2004b:60119**

60G57 Random measures

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Coppens, M.-O. *see* **Barral, Julien et al., 2004m:60107**
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Ma, Jian-guo *see* **Yan, Guo-jun, 2004a:60098**
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Mahmoodi, S. *see* **Soltani, A. R., 2004m:60112**
Mandelbrot, Benoît B. *see* **Barral, Julien et al., 2004m:60107**
Mierzejewski, Dmytro A. *see* **Berezanskiĭ, Yuriĭ Makarovich, 2004c:60152**
Muliere, Pietro *see* **Walker, Stephen G., 2004h:60078**
Mytnik, Leonid (*with* Perkins, Edwin A.) Regularity and irregularity of $(1+\beta)$-stable super-Brownian motion. (English summary) **2004b:60130**
Perkins, Edwin A. *see* **Mytnik, Leonid, 2004b:60130**
Pilipenko, Andrei The evolution of a system of particles and measure-valued processes. (English summary) **2004j:60103**
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Shiga, Tokuzo *see* **Ethier, S. N., 2004m:60109**
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Soós, Anna *see* **Kolumbán, Iosif et al., 2004g:60075**
Spincemaille, P. *see* **Fannes, Mark, 2004m:60110**
Tribe, Roger *see* **Jacka, Saul, 2004d:60122**
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Greven, Andreas *see* **Dawson, Donald A., 2004c:60265**
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Heunis, Andrew J. *see* **Lucic, Vladimir M., 2004e:60070**
Hu, Di He *see* **Yu, Jing Hu**
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Ishwaran, Hemant (*with* James, Lancelot F.) Gibbs sampling methods for stick-breaking priors. (English summary) **2004d:62018**
James, Lancelot F. *see* **Ishwaran, Hemant, 2004d:62018**
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Külske, Christof Concentration inequalities for functions of Gibbs fields with application to diffraction and random Gibbs measures. (English summary) **2004i:60069**
Last, Günter *see* **Hug, Daniel et al., 2004c:60029**
Lebedev, Vladimir Aleksandrovich On the existence of weak solutions for stochastic differential equations with driving L^0-valued measures. (Russian. Russian summary) **2004f:60138**
Lehoczky, John *see* **Kruk, Łukasz et al., 2004b:60217**
Léonard, Christian (*with* Najim, Jamal) An extension of Sanov's theorem: application to the Gibbs conditioning principle. (English summary) **2004b:60080**
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Lytvynov, Eugene Orthogonal decompositions for Lévy processes with an application to the gamma, Pascal, and Meixner processes. (English summary) **2004d:60120**
Mandelbrot, Benoît B. *see* **Barral, Julien, 2004g:28005**
Micheletti, Alessandra *see* **Capasso, Vincenzo, 2004d:60021**
Mörters, Peter *see* **Dawson, Donald A. et al., 2004d:60258**
Muzy, J. F. *see* **Bacry, E., 2004m:60071**
Mytnik, Leonid *see* **Fleischmann, Klaus, 2004f:60204** *and* **Dawson, Donald A. et al., 2004m:60219**
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60G70 Extreme value theory; extremal processes

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Kharlamov, B. P. Absolute continuity of measures in the class of Markov and semi-Markov processes of diffusion type. (English summary) **2004m:60100**
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Le Breton, A. *see* **Kleptsyna, Marina, 2004d:60094**
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Ouknine, Youssef *see* **Lakhel, El Hassan et al., 2004c:60169** *and* **Erraoui, Mohamed et al., 2004i:60093**
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Santacroce, Marina *see* **Mania, Mikhael et al., 2004f:91080**
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Toh, Tim-Lam *see* **Chew, Tuan Seng et al., 2004b:26014**
Tudor, Ciprian A. *see* **Lakhel, El Hassan et al., 2004c:60169** *and* **Bardina, Xavier et al., 2004d:60052**
Üstünel, A. S. *see* **Feyel, D., 2004m:60121**
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Zou, Jie Zhong *see* **Luo, Jiao Wan et al., 2004c:60177**

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60H07 Stochastic calculus of variations and the Malliavin calculus

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Ostapovich, B. S. *see* **Gavryliv, O. S. et al.**, **2004e:60088**
Ouknine, Youssef *see* **Lakhel, El Hassan et al.**, **2004c:60169**
Privault, Nicolas *see* **Jeanblanc-Picqué, Monique**, **2004f:60122** *and* **Franz, Uwe[1] et al.**, **2004k:60155**
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Sarrà, Mònica *see* **Márquez-Carreras, David**, **2004g:60086**
Schott, René *see* **Franz, Uwe[1] et al.**, **2004k:60155**
Thalmaier, Anton *see* **Malliavin, Paul**, **2004d:60142**
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Viens, Frederi G. *see* **Tudor, Ciprian A.**, **2004f:60124**
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Zambotti, Lorenzo *see* **Bonaccorsi, Stefano**, **2004j:60111**
Zhang, Xicheng *see* **Ren, Jiagang**, **2004h:60084**

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Bogachev, Vladimir I. *see* **Airault, Hélène**, **2004c:58071**
Bogy, D. B. *see* **Budaev, B. V.**, **2004k:74047**
Bouleau, Nicolas Error calculus and path sensitivity in financial models. (English summary) **2004i:91105**
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Cvitanić, Jakša (*with* Ma, Jin[1]; Zhang, Jianfeng) Efficient computation of hedging portfolios for options with discontinuous payoffs. (English summary) **2004g:91067**
Dahl, Lars O. *see* **Benth, Fred Espen et al.**, **2004h:91049**
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Hamadène, Saïd *see* **El Karoui, Nicole**, **2004c:60173**
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Imkeller, Peter Malliavin's calculus in insider models: additional utility and free lunches. (English summary) **2004b:91079**
Karlsen, Kenneth Hvistendahl *see* **Benth, Fred Espen et al.**, **2004h:91049**
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Malliavin, Paul *see* **Airault, Hélène et al.**, **2004c:58070** *and* **Barucci, Emilio et al.**, **2004d:91099**
Mancino, Maria Elvira *see* **Barucci, Emilio et al.**, **2004d:91099**
Mesnager, Laurent *see* **Cattiaux, Patrick**, **2004d:60178**
Montero, Miquel *see* **Bermin, Hans-Peter et al.**, **2004b:91089**
Navarro Cruz, Reyla *see* **León, Jorge A. et al.**, **2004b:91080**
Nualart, David (*with* Ouknine, Youssef) Regularization of differential equations by fractional noise. (English summary) **2004b:60151**
— Stochastic integration with respect to fractional Brownian motion and applications. (English summary) **2004m:60119**
— *see also* **León, Jorge A. et al.**, **2004b:91080**
Øksendal, Bernt *see* **Benth, Fred Espen et al.**, **2004a:91057**
Ouknine, Youssef *see* **Nualart, David**, **2004b:60151**
Pagès, Gilles *see* **Bally, Vlad et al.**, **2004b:91085**
Printems, Jacques *see* **Bally, Vlad et al.**, **2004b:91085**
Privault, Nicolas *see* **El-Khatib, Youssef**, **2004e:91054** *and* **2004k:91105**
Proske, Frank N. *see* **Benth, Fred Espen et al.**, **2004a:91057**
Purtukhiya, O. G. Fubini type theorems for ordinary and stochastic integrals. (English and Georgian summaries) **2004c:60167**
Renò, Roberto *see* **Barucci, Emilio et al.**, **2004d:91099**
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Zhang, Tu-Sheng (*with* Zheng, Wei An) SPDEs driven by space-time white noise in high dimensions: absolute continuity of the law and convergence of solutions. (English summary) **2004d:60173**
Zhang, Xicheng *see* **Cruzeiro, Ana Bela**, **2004m:58058**
Zheng, Wei An *see* **Zhang, Tu-Sheng**, **2004d:60173**
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60H10 Stochastic ordinary differential equations [see also 34F05]

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Arató, Mátyás A famous nonlinear stochastic equation (Lotka-Volterra model with diffusion). (English summary) **2004j:60115**
Aubin, Jean-Pierre (*with* Doss, Halim) Characterization of stochastic viability of any nonsmooth set involving its generalized contingent curvature. (English summary) **2004f:60125**
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Bakhtin, V. I. Asymptotics of superregular perturbations of fiber ergodic semigroups. (English summary) **2004k:60158**
Bakhtin, Yu. Yu. Existence and uniqueness of the stationary solution of a nonlinear stochastic differential equation with memory. (Russian. Russian summary) **2004g:60088**
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Beghdadi-Sakrani, Samia On pathwise uniqueness of stochastic differential equations with drift. (English summary) **2004k:60159**
Ben Arous, Gérard Aging and spin-glass dynamics. (English summary) **2004h:60085**
Berglund, Nils (*with* Gentz, Barbara) Geometric singular perturbation theory for stochastic differential equations. (English summary) **2004g:60089**
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Bondarēv, Boris V. (*with* Polshkov, Yulian N.) On ε-sufficient control in stochastic systems with fast random oscillations. (English summary) **2004j:60116**
Boukas, Andreas *see* **Accardi, Luigi, 2004d:60143**
Brillinger, David R. Simulating constrained animal motion using stochastic differential equations. (English summary) (*see* **2004c:00021**)
Bryden, Alan (*with* Higham, Desmond J.) On the boundedness of asymptotic stability regions for the stochastic theta method. (English summary) **2004d:60145**
Brzeźniak, Zdzisław (*with* Goldys, B.; van Neerven, J. M. A. M.) Mean square continuity of Ornstein-Uhlenbeck processes in Banach spaces. **2004k:60161**
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Burrage, Kevin (*with* Tian, Tianhai) Implicit stochastic Runge-Kutta methods for stochastic differential equations. (English summary)
Camilli, Fabio (*with* Grüne, Lars) Characterizing attraction probabilities via the stochastic Zubov equation. (English summary) **2004c:60172**
Cao, Guilan (*with* He, Kai) On a type of stochastic differential equations driven by countably many Brownian motions. (English summary) **2004d:60146**
Carmona, S. C. (*with* Freidlin, M. I.) On logarithmic asymptotics of stochastic resonance frequencies. (English summary) **2004f:60126**
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Chen, Zhen-Qing *see* **Bass, Richard F., 2004b:60144**
Chernyĭ, A. S. On strong and weak uniqueness for stochastic differential equations. (Russian. Russian summary) **2004b:60145**
— (*with* Engelbert, Hans-Jürgen) Isolated singular points of stochastic differential equations. (English summary) **2004j:60117**
Constantin, Gheorghe Uniqueness for backward stochastic differential equations with non-Lipschitz coefficients. (English summary) **2004h:60087**
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Da Prato, Giuseppe (*with* Debussche, Arnaud; Tubaro, Luciano) Irregular semi-convex gradient systems perturbed by noise and application to the stochastic Cahn-Hilliard equation. (English and French summaries) **2004m:60124**
Debussche, Arnaud *see* **Da Prato, Giuseppe et al., 2004m:60124**
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Dermoune, Azzouz (*with* Moutsinga, Octave) Generalized variational principles. (English summary) **2004e:60092**
Dimentberg, M. F., Jr. Stochastic Lotka-Volterra system. (English summary) (*see* **2004j:60007**)
Doss, Halim *see* **Aubin, Jean-Pierre, 2004f:60125**
Eddahbi, M. *see* **Bahlali, Khaled et al., 2004a:60111**
El-Borai, Mahmoud M. (*with* Moustafa, Osama L.; Ahmed, Hamdy M.) Asymptotic stability of some stochastic evolution equations. (English summary) **2004d:60147**
El-Kalla, I. L. *see* **El Tawil, Magdy A. et al., 2004d:60148**
El Karoui, Nicole (*with* Hamadène, Saïd) BSDEs and risk-sensitive control, zero-sum and nonzero-sum game problems of stochastic functional differential equations. (English summary) **2004c:60173**
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Elsaidy, M. M. *see* **El Tawil, Magdy A. et al., 2004d:60148**
El Tawil, Magdy A. (*with* Saleh, M. M.; Elsaidy, M. M.; El-Kalla, I. L.) Decomposition solution of stochastic nonlinear oscillator. (English summary) **2004d:60148**
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Engelbert, Hans-Jürgen (*with* Kurenok, V. P.) On one-dimensional stochastic equations driven by symmetric stable processes. (English summary) **2004e:60093**
— *see also* **Chernyĭ, A. S., 2004j:60117**
Ergüt, Mahmut *see* **Bulut, Hasan**
Essaky, El Hassan (*with* Ouknine, Youssef) Homogenization of multivalued partial differential equations via reflected backward stochastic differential equations. (English summary) **2004m:60125**
— *see also* **Bahlali, Khaled et al., 2004a:60110** *and* **2004a:60111**
Fang, Tong *see* **Rong, Hai Wu et al.**
Ferrante, L. (*with* Bompadre, S.; Leone, L.) A stochastic compartmental model with long lasting infusion. (English and German summaries) **2004b:60146**
Filipović, Damir[1] (*with* Teichmann, Josef) Existence of invariant manifolds for stochastic equations in infinite dimension. (English summary) **2004b:60147**
Freidlin, M. I. (*with* Weber, Matthias[1]) Random perturbations of dynamical systems and diffusion processes with conservation laws. (English summary) **2004j:60119**
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Gentz, Barbara *see* **Berglund, Nils, 2004g:60089**
Goldys, B. *see* **Brzeźniak, Zdzisław et al., 2004k:60161**
Govindan, T. E. Stability of mild solutions of stochastic evolution equations with variable delay. (English summary) **2004g:60090**
Grecksch, W. *see* **Anh, V. V., 2004j:60114**
Grigoriu, Mircea (*with* Samorodnitsky, Gennady) Dynamic systems driven by Poisson/Lévy white noise. (English summary) (*see* **2004j:60007**)
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Grüne, Lars *see* **Camilli, Fabio, 2004c:60172**
Hamadène, Saïd *see* **El Karoui, Nicole, 2004c:60173**
Han, Yue Cai (*with* Tian, Ping; Shi, Shao Yun) Stability of the solution of stochastic functional differential equations. (Chinese. English and Chinese summaries) **2004d:60149**
Hassani, Mohammed (*with* Ouknine, Youssef) On a general result for backward stochastic differential equations. (English summary) **2004b:60148**
— *see also* **Bahlali, Khaled et al., 2004a:60110**
He, Kai *see* **Cao, Guilan, 2004d:60146**
Herrmann, Samuel (*with* Imkeller, Peter) Barrier crossings characterize stochastic resonance. (English summary) **2004i:60082**
— Système de processus auto-stabilisants. (English summary) [System of self-stabilizing processes] **2004e:60094**
Higham, Desmond J. *see* **Bryden, Alan, 2004d:60145**
Hou, Zhen Ting *see* **Luo, Jiao Wan et al., 2004c:60177**
Hu, Ying[1] (*with* Lerner, Nicolas) On the existence and uniqueness of solutions to stochastic equations in infinite dimension with integral-Lipschitz coefficients. (English summary) **2004c:60174**
Huang, Qing Dao (*with* Tian, Ping; Wang, Guo Ming) LaSalle's theorem for stochastic differential equations. (English summary) **2004k:60164**
Huang, Zhen *see* **Qian, Jing Jing et al.**
Huzak, Miljenko *see* **Bokor, Rózsa Horváth et al., (2004c:00014)**
Il′chenko, A. V. Stochastically bounded solutions of a linear inhomogeneous stochastic differential equation. (Ukrainian. Ukrainian summary) **2004d:60150**
Imkeller, Peter *see* **Herrmann, Samuel, 2004i:60082**
Iwankiewicz, Radoslaw Dynamical systems with multiplicative random impulse process excitation. (English summary) (*see* **2004j:60007**)
Janković, Svetlana (*with* Jovanović, Miljana) A general algorithm for solving stochastic hereditary integrodifferential equations. (English summary) **2004k:60165**
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Jian, Ji Gui (*with* Shen, Yi[2]; Liao, Xiao Xin) Strong stability of partial variables in Itô stochastic linear systems. (Chinese. English and Chinese summaries) **2004j:60120**
Jiang, Long *see* **Chen, Zeng Jing et al., 2004k:60162** *and* **2004k:60163**
Jiang, Shan Shan *see* **Zhu, Xia et al., 2004d:60159**
Jouini, Elyès (*with* Napp, Clotilde) Comonotonic processes. (English summary) **2004k:60166**
Jovanović, Miljana *see* **Janković, Svetlana, 2004k:60165**
Jumarie, G. Approximate solution for some stochastic differential equations involving both Gaussian and Poissonian white noises. (English summary) **2004g:60091**
Kallianpur, G. (*with* Mandal, Pranab K.) Nonlinear filtering with stochastic delay equations. (English summary) **2004k:60167**
Kaneko, Hiroshi[2] Time-inhomogeneous stochastic processes on the p-adic number field. (English summary) **2004e:60095**
Kaskun, Eugenii P. *see* **Kulinich, Grigorii L., 2004j:60122**
Kawaguchi, Kazuhito *see* **Morimoto, Hiroaki, 2004d:60155**
Keck, David N. (*with* McKibben, Mark A.) Functional integro-differential stochastic

evolution equations in Hilbert space. (English summary) **2004e:60096**
— (*with* McKibben, Mark A.) On a McKean-Vlasov stochastic integro-differential evolution equation of Sobolev-type. (English summary) **2004e:60097**
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— (*with* Klebaner, F. C.; Liptser, R. S.) Some results on the Lotka-Volterra model and its small random perturbations. (English summary) **2004k:60168**
Klebaner, F. C. *see* **Khas′minskiĭ, Rafail Zalmanovich et al., 2004k:60168**
Kolmanovskii, Vladimir B. (*with* Koroleva, N. I.; Maizenberg, T. L.; Mao, Xuerong; Matasov, A.) Neutral stochastic differential delay equations with Markovian switching. (English summary) **2004d:60152**
Komorowski, Tomasz (*with* Olla, Stefano) Invariant measures for passive tracer dynamics in Ornstein-Uhlenbeck flows. (English summary) **2004b:60149**
Konakov, Valentin (*with* Mammen, Enno) Edgeworth type expansions for Euler schemes for stochastic differential equations. (English summary) **2004e:60098**
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Kopytko, Bogdan I. (*with* Tsapovs′ka, Zh. Ya.) Diffusion processes with discontinuous local characteristics of the movement. (English summary) **2004j:60121**
Koroleva, N. I. *see* **Kolmanovskii, Vladimir B. et al., 2004d:60152**
Kulinich, Grigorii L. (*with* Kaskun, Eugenii P.) On the asymptotic behavior of solutions of one-dimensional Ito's stochastic differential equations with singularity points. (English summary) **2004j:60122**
Kulperger, Reg *see* **Chen, Zeng Jing et al., 2004k:60162** *and* **2004k:60163**
Kurenok, V. P. *see* **Engelbert, Hans-Jürgen, 2004e:60093**
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Lasota, Andrzej (*with* Traple, Janusz) Invariant measures related with Poisson driven stochastic differential equation. (English summary) **2004d:60153**
Lazrak, Ali (*with* Quenez, Marie Claire) A generalized stochastic differential utility. (English summary) **2004c:60176**
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Le Jan, Yves (*with* Raimond, Olivier) Une classification des flots solutions d'une EDS. (English and French summaries) [Classification of the solution flows of an SDE] **2004b:60150**
Leone, L. *see* **Ferrante, L. et al., 2004b:60146**
Leonenko, N. N. *see* **Anh, V. V. et al., 2004e:60091**
Lepeltier, J. P. Nonanticipative risk sensitive control: the martingale method. (English summary) **2004e:60100**
Lerner, Nicolas *see* **Hu, Ying[1], 2004c:60174**
Levakov, A. A. Bounded solutions of linear stochastic systems. (Russian. English and Russian summaries) **2004h:60088**
Li, Hong Zhi *see* **Zhu, Xia et al., 2004d:60159**
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Li, Juan[1] (*with* Chen, Zeng Jing; Wei, Yong Qing) Minimum expectation and backward stochastic differential equations. (Chinese. English and Chinese summaries) **2004f:60127**
Lian, Ji Jian *see* **Zhang, Hua et al., 2004h:60096**
Liao, Xiao Xin *see* **Jian, Ji Gui et al., 2004j:60120**
Limić, Nedžad *see* **Bokor, Rózsa Horváth et al., (2004c:00014)**
Lin, Qing Quan Nonlinear Doob-Meyer decomposition for general filtration. (English summary) **2004h:60089**
Liptser, R. S. *see* **Khas′minskiĭ, Rafail Zalmanovich et al., 2004k:60168**
Lisak, Natalīya P. Limit theorems for the solution of the Langevin equation in the two-dimensional case. (Ukrainian. English and Ukrainian summaries)
Liu, Jia Kun *see* **Zhang, Hua et al., 2004h:60096**
Liu, Kai[2] (*with* Zou, Jie Zhong) Robustness of pathwise stability of semilinear perturbed stochastic evolution equations. (English summary) **2004k:60169**
Liu, Kang-Man *see* **Babuška, Ivo, 2004b:60141**
Loghmani, G. Barid (*with* Mohseni Moghadam, M.) On the implicit and semi-implicit Runge-Kutta methods for stochastic ordinary differential equations. (English summary)
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Ma, Jin[1] (*with* Sun, Xiaodong) Ruin probabilities for insurance models involving investments. (English summary) **2004f:60128**
— *see also* **Antonelli, Fabio, 2004b:60140**
Macke, Michael *see* **Bucher, Christian, (2004j:60007)**
Maizenberg, T. L. *see* **Kolmanovskii, Vladimir B. et al., 2004d:60152**
Makhno, Sergei Ya. Stochastic equations with unbounded drift. (English summary) **2004h:60090**
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Malyshkin, M. N. Subexponential estimates for the rate of convergence to the invariant measure for stochastic differential equations. (Russian. Russian summary) **2004a:60113**
Malyutin, V. B. Approximation of the expected value of functionals from the solution of a linear stochastic differential equation with noncommuting coefficients. (Russian. English and Russian summaries)
Mammen, Enno *see* **Konakov, Valentin, 2004e:60098**
Mandal, Pranab K. *see* **Kallianpur, G., 2004k:60167**
Mandrekar, Vidyadhar S. (*with* Skorokhod, Anatolii V.) An approach to the martingale problem for diffusion stochastic equations in a Hilbert space. (English summary) **2004i:60083**
Mao, Xuerong Attraction, stability and boundedness for stochastic differential delay equations. (English summary) **2004d:60154**
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Marty, Renaud Théorème limite pour une équation différentielle à coefficient aléatoire à mémoire longue. (English and French summaries) [Limit theorem for a differential equation with a long-range random coefficient] **2004j:60123**
Maslowski, Bohdan (*with* Nualart, David) Evolution equations driven by a fractional Brownian motion. (English summary) **2004e:60101**
Matasov, A. *see* **Kolmanovskii, Vladimir B. et al., 2004d:60152**
McKibben, Mark A. Second-order damped functional stochastic evolution equations in Hilbert space. (English summary) **2004k:60171**
— *see also* **Keck, David N., 2004e:60096** *and* **2004e:60097**
Mcvinish, R. *see* **Anh, V. V., 2004c:60170**
Mel′nik, S. A. The group analysis of stochastic differential equations. (English summary) **2004i:60085**
Meng, Guang *see* **Rong, Hai Wu et al.**
Michta, Mariusz On solutions to stochastic differential inclusions. (English summary) **2004j:60124**
Mishura, Yuliya S. (*with* Oltsik, Yanina A.) Optimal financial strategy with wealth process governed by backward stochastic differential equation. (English summary) **2004j:60125**
Mitsui, Taketomo *see* **Saito, Yoshihiro[2]**
Mohari, Anilesh Ergodicity of homogeneous Brownian flows. (English summary) **2004m:60127**
Mohseni Moghadam, M. *see* **Loghmani, G. Barid**
Morimoto, Hiroaki (*with* Kawaguchi, Kazuhito) Optimal exploitation of renewable resources by the viscosity solution method. (English summary) **2004d:60155**
Moustafa, Osama L. *see* **El-Borai, Mahmoud M. et al., 2004d:60147**
Moutsinga, Octave *see* **Dermoune, Azzouz, 2004e:60092**
Myjak, Józef (*with* Szarek, Tomasz) Capacity of invariant measures related to Poisson-driven stochastic differential equations. (English summary) **2004g:60092**
Napp, Clotilde *see* **Jouini, Elyès, 2004k:60166**
Narita, Kiyomasa Singularly perturbed linear SDE driven by fractional Brownian noise. (English summary) **2004f:60129**
van Neerven, J. M. A. M. *see* **Brzeźniak, Zdzisław et al., 2004k:60161**
Nguyen, C. N. *see* **Anh, V. V. et al., 2004e:60091**
Novikov, Aleksandr A. Martingales and first-exit times for the Ornstein-Uhlenbeck process with jumps. (Russian. Russian summary) **2004i:60086**
Nualart, David (*with* Ouknine, Youssef) Regularization of differential equations by fractional noise. (English summary) **2004b:60151**
— *see also* **Maslowski, Bohdan, 2004e:60101**
Øksendal, Bernt ★ Stochastic differential equations. **2004e:60102**
Olla, Stefano *see* **Komorowski, Tomasz, 2004b:60149**
Oltsik, Yanina A. *see* **Mishura, Yuliya S., 2004j:60125**
Oren, Shmuel S. *see* **Deng, Shi-Jie, 2004a:60112**
Ouknine, Youssef *see* **Hassani, Mohammed, 2004b:60148; Nualart, David, 2004b:60151** *and* **Essaky, El Hassan, 2004m:60125**
Pardoux, Etienne (*with* Veretennikov, A. Yu.) On Poisson equation and diffusion approximation. II. (English summary) **2004d:60156**
— *see also* **Bahlali, Khaled et al., 2004a:60110**
Pasarić, Zoran On a class of stochastic evolution equations—pathwise approach. (English summary) **2004f:60130**
Păun, V. P. (*with* Petrescu, E.) Second order approximation to stochastic differential equations for backward processes and Gaussian distributions. (English summary) **2004m:60128**
Pederson, Steven M. *see* **Ladde, G. S. et al.**
Peng, Shige (*with* Shi, Yufeng) A type of time-symmetric forward-backward stochastic differential equations. (English and French summaries) **2004c:60178**
Petrescu, E. *see* **Păun, V. P., 2004m:60128**
Pilipenko, Andrei Approximation theorem for stochastic differential equations with interaction. (English summary) **2004g:60093**
Polshkov, Yulian N. On an estimate of the convergence rate. (English summary) **2004f:60131**
— *see also* **Bondarēv, Boris V., 2004j:60116**
Pustyl′nikov, L. D. Discrete wave equations with random parameters, and a discrete string with random masses. (Russian. Russian summary) **2004k:60172**
Qian, Jing Jing (*with* Huang, Zhen; Wang, Xiang Rong) Backward stochastic differential equations and g-expectations on infinite horizon. (Chinese. English and Chinese summaries)
Qian, Zhongmin (*with* Russo, Francesco; Zheng, Wei An) Comparison theorem and estimates for transition probability densities of diffusion processes. (English summary) **2004j:60126**
Quenez, Marie Claire *see* **Lazrak, Ali, 2004c:60176**
Raimond, Olivier *see* **Le Jan, Yves, 2004b:60150**
Ren, Jiagang (*with* Zhang, Xicheng) Stochastic flow for SDEs with non-Lipschitz coefficients. (English summary) **2004h:60091**
Renshaw, Eric *see* **Mao, Xuerong et al., 2004i:60084**
Reynolds, David W. *see* **Appleby, John A. D., 2004c:60171**
Ritter, Gunter *see* **Leha, Gottlieb, 2004e:60099**
Röckner, Michael *see* **Bogachev, Vladimir I., 2004h:60086** *and* **2004k:60160**
Rong, Hai Wu (*with* Wang, Xiang Dong; Meng, Guang; Xu, Wei[3]; Fang, Tong) Approximation closure method of FPK equations.
Rovira, Carles *see* **Bardina, Xavier et al., 2004d:60144**
Rubenthaler, Sylvain (*with* Wiktorsson, Magnus) Improved convergence rate for the simulation of stochastic differential equations driven by subordinated Lévy processes. (English summary) **2004j:60127**
Rudomīno-Dusyat·s′ka, N. Properties of maximum likelihood estimators in diffusion and fractional-Brownian models. (Ukrainian. Ukrainian summary) **2004e:60103**
Russo, Francesco *see* **Qian, Zhongmin et al., 2004j:60126**
Ryashko, L. B. Exponential mean square stability of stochastically forced 2-torus. (English

summary) **2004m:60129**

Sabanis, Sotirios *see* **Mao, Xuerong et al., 2004i:60084**

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Saleh, M. M. *see* **El Tawil, Magdy A. et al., 2004d:60148**

Sambandham, M. *see* **Ladde, G. S. et al.**

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Samorodnitsky, Gennady (*with* Grigoriu, Mircea) Tails of solutions of certain nonlinear stochastic differential equations driven by heavy tailed Lévy motions. (English summary) **2004b:60152**

— *see also* **Grigoriu, Mircea**, **(2004j:60007)**

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Schuss, Zeev *see* **Spivak, A. K.**

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Shen, Yi[2] *see* **Jian, Ji Gui et al., 2004j:60120**

Sherris, Michael *see* **Ang, Andrew**

Shi, Shao Yun *see* **Han, Yue Cai et al., 2004d:60149**

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Sun, Xin Xiu *see* **Wang, Zeng Wu et al.**

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Teichmann, Josef *see* **Filipović, Damir[1]**, **2004b:60147**

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Tindel, Samy *see* **Bardina, Xavier et al., 2004d:60144**

Ting, Yunlung Comparison method of stability analysis of semilinear time-delay stochastic evolution equation. (English summary) **2004m:60130**

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Traple, Janusz *see* **Lasota, Andrzej**, **2004d:60153**

Tsapovs'ka, Zh. Ya. *see* **Kopytko, Bogdan I., 2004j:60121**

Tsinias, J. *see* **Spiliotis, John**, **2004d:60158**

Tubaro, Luciano *see* **Da Prato, Giuseppe et al., 2004m:60124**

Tyran-Kamińska, Marta Stochastic differential equation driven by a pure-birth process. (English summary) **2004c:60179**

Tysk, Johan *see* **Janson, Svante**, **2004d:60151**

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Wiktorsson, Magnus *see* **Rubenthaler, Sylvain**, **2004j:60127**

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Yan, Litan Maximal inequalities for a continuous semimartingale. (English summary) **2004f:60134**

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Dittmar, Robert F. *see* **Ahn, Dong-Hyun et al.**

Dorogovtsev, Andrei A. Stochastic flows with interaction and measure-valued processes. (English summary) **2004m:60135**

Douady, Raphaël *see* **Bardos, Claude et al., 2004b:91086**

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Durrleman, Valdo *see* **Carmona, René A., 2004m:91102**

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Fouque, Jean-Pierre *see* **Cotton, Peter et al., 2004k:91102**

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Fursikov, Andrei V. *see* **Bardos, Claude et al., 2004b:91086**

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Gentz, Barbara *see* **Berglund, Nils, 2004c:86003**

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Gobbo, Michele *see* **Billio, Monica et al.**

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Grandits, P. *see* **Gaier, J. et al., 2004k:91124**

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Hasan, Merza H. *see* **Al-Eideh, Basel M.**

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Hernández-Campos, F. *see* **Budhiraja, Amarjit et al., 2004i:60098**

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Hou, Zhen Ting *see* **Chen, Chao[1] et al., 2004j:91121**

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2004m:60148

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Janković, Svetlana (*with* Jovanović, Miljana) Some analytic iterative methods for solving various classes of stochastic hereditary integrodifferential equations. (English and Serbian summaries) **2004k:60184**

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Kabanov, Yu. M. (*with* Pergamenshchikov, Sergei) ★ Two-scale stochastic systems. (English summary) **2004c:93003**

Karlsen, Kenneth Hvistendahl *see* **Benth, Fred Espen et al.**, **2004a:91056** *and* (**2004a:62014**)

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Kramer, Peter R. (*with* Majda, Andrew J.; Vanden-Eijnden, Eric) Closure approximations for passive scalar turbulence: a comparative study on an exactly solvable model with complex features. (English summary) **2004g:76080**

Krim, Hamid *see* **Unal, Gozde et al.**, **2004c:94027**

Kulkarni, V. G. *see* **Budhiraja, Amarjit et al.**, **2004i:60098**

Kumar, K. Suresh Numerical analysis of a zero-sum stochastic differential game in a bounded domain. (English summary) **2004c:91025**

Kuroda, Kazutaka (*with* Nagai, Hideo) Risk-sensitive portfolio optimization on infinite time horizon. (English summary) **2004a:93096**

Kuske, R. Multi-scale analysis of noise-sensitivity near a bifurcation. (English summary) (*see* **2004j:60007**)

Kutoyants, Yurii *see* **Dietz, Hans M.**, **2004b:62059**

Ladde, G. S. (*with* Sambandham, M.) ★ Stochastic versus deterministic systems of differential equations. **2004k:34112**

Lamba, H. An adaptive timestepping algorithm for stochastic differential equations. (English summary) **2004k:65015**

Landén, Camilla *see* **Björk, Tomas**, **2004a:91058**

Laue, Silke *see* **Korn, Ralf**, (**2004b:60005**)

Lazakovich, N. V. *see* **Koval′chuk, A. N. et al.**, **2004k:60185**

Li, Xian-ping *see* **Liao, Chang-gao et al.**, **2004c:91052**

Li, Zhi-ming (*with* Shi, Ke) Study on the finance market model. (English and Chinese summaries)

Liang, Xiang Qian *see* **Wang, Xiao-Tian et al.**, **2004f:91088**

Liao, Chang-gao (*with* Li, Xian-ping; Xu, Ping) A class of optimization problems with portfolio constraints and the corresponding optimal solution. (English and Chinese summaries) **2004c:91052**

Liinev, J. *see* **Deelstra, Griselda et al.**, **2004k:91103**

Lin, Chin-Tsai (*with* Wu, Cheng-Ru) Batch process and transfer decisions in foreign market: a real options model. (English summary) **2004c:91041**

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Lin, Jian Zhong[1] (*with* Ye, Zhong Xing) The valuation of European contingent claims of several stocks whose prices are governed by Brownian motions and Poisson processes. (Chinese. English and Chinese summaries) **2004k:91112**

Lin, Qing Quan Weak solution for stochastic differential equations with terminal conditions. (English summary) **2004d:60175**

— Nonlinear Doob-Meyer decomposition with jumps. (English summary) **2004b:60118**

Lin, Tyrone T. *see* **Lin, Chin-Tsai et al.**, **2004j:60144**

Lin, X. Sheldon (*with* Tan, Ken Seng) Valuation of equity-indexed annuities under stochastic interest rates. (English summary)

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Liu, Yazeng (*with* Peng, Shige) Determination of a controllable set for a class of non-linear stochastic control systems. (English summary) **2004d:93129**

Liu, Yong[4] (*with* Gong, Weibo) On fluid queueing systems with strict priority. (English summary) **2004k:60260**

Londoño, Jaime A. State tameness: a new approach for credit constrains. (English summary) **2004m:91116**

Lu, Biao *see* **Inci, Ahmet Can**, **2004k:91157**

Luo, Cheng-Xin (*with* Feng, En Min) Stochastic differential games and generalized Riccati equations. (English summary) **2004i:91037**

Macke, Michael (*with* Bucher, Christian) Importance sampling for randomly excited dynamical systems. (English summary) **2004j:70050**

Mackevičius, Vigirdas On the convergence rate of Euler scheme for SDE with Lipschitz drift and constant diffusion. (English summary) **2004k:65016**

Majda, Andrew J. (*with* Timofeyev, Ilya; Vanden-Eijnden, Eric) Systematic strategies for stochastic mode reduction in climate. (English summary) **2004j:86011**

— *see also* **Kramer, Peter R. et al.**, **2004g:76080**

Makarov, R. N. Numerical solution of quasilinear parabolic equations and backward stochastic differential equations. (English summary) **2004k:65017**

Makasu, Cloud On a problem of optimal harvesting from a stochastic system with a jump component. (English summary) **2004h:60073**

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Mankin, Romi (*with* Ainsaar, Ain; Tammelo, Risto) Trichotomous noise: applications to stochastic transport. (English and Estonian summaries)

Mao, Xuerong (*with* Selfridge, Colin) Stability of stochastic interval systems with time delays. (English summary) **2004f:34126**

— Numerical solutions of stochastic functional differential equations. (English summary) **2004g:65008**

— *see also* **Yuan, Chenggui**, **2004k:65018**

Marcozzi, Michael D. *see* **Choi, Seungmook S.**

Mathis, Wolfgang (*with* Weiss, Laurens) Noise analysis of nonlinear electrical circuits and devices. (English summary) (*see* **2004h:00023**)

Mattingly, Jonathan C. Exponential convergence for the stochastically forced Navier-Stokes equations and other partially dissipative dynamics. (English summary) **2004a:76039**

Meladze, Gamlet (*with* Torondzhadze, T. A.) On the innovation of continuous multidimensional semimartingale. II. The Bayesian model. (English and Georgian summaries) **2004m:60091**

Mel′nikov, A. V. ★ Risk analysis in finance and insurance. **2004i:91004**

Mercurio, Fabio *see* **Brigo, Damiano**, **2004a:91059**

Milevsky, Moshe Arye (*with* Robinson, Chris) Self-annuitization and ruin in retirement. (English summary)

— *see also* **Huang, Huaxiong et al.**

Milheiro de Oliveira, Paula (*with* Picard, Jean) Approximate nonlinear filtering for a two-dimensional diffusion with one-dimensional observations in a low noise channel. (English summary) **2004b:93132**

Mil′shteĭn, G. N. (*with* Tret′yakov, Mikhail V.) A probabilistic approach to the solution of the Neumann problem for nonlinear parabolic equations. (English summary) **2004c:35192**

— (*with* Repin, Yu. M.; Tret′yakov, Mikhail V.) Numerical methods for stochastic systems preserving symplectic structure. (English summary) **2004a:65009**

— (*with* Tret′yakov, Mikhail V.) The simplest random walks for the Dirichlet problem. (Russian. Russian summary) **2004e:60115**

Mishura, Yuliya S. (*with* Valkeĭla, È.) Absence of arbitrage in a mixed Brownian-fractional Brownian model. (Russian. Russian summary) **2004k:91116**

Mohammed, Salah-Eldin A. (*with* Scheutzow, Michael K. R.) The stable manifold theorem for non-linear stochastic systems with memory. II. The local stable manifold theorem. (English summary) **2004k:37102**

— *see also* **Hu, Yaozhong et al.**, **2004m:60148**

Mudpe, S. V. *see* **Dhage, B. C. et al.**, **2004c:34159**

Nagai, Hideo Optimal strategies for risk-sensitive portfolio optimization problems for general factor models. (English summary) **2004c:91055**

— *see also* **Kuroda, Kazutaka**, **2004a:93096**

Ng, Kai Wang *see* **Yuen, Kam C. et al.**, **2004j:60146**

Norberg, Ragnar The Markov chain market. (English summary)

Ntouyas, Sotiris K. *see* **Dhage, B. C. et al.**, **2004c:34159**

Nualart, David Stochastic integration with respect to fractional Brownian motion and applications. (English summary) **2004m:60119**

Nunes, João Pedro Vidal Multifactor valuation of floating range notes. (English summary) **2004j:91148**

Obrezkov, Oleg O. Stochastic Schrödinger-type equation with two-dimensional white noise. (English summary) **2004e:82047**

Ojowu, O. *see* **Ugbebor, O. O. et al.**

Onah, S. E. *see* **Ugbebor, O. O. et al.**

Oster, George F. *see* **Ionides, Edward L. et al.**, **2004m:92005**

Otruba, Susanne *see* **Bodie, Zvi et al.**, **2004j:91118**

Özkan, Fehmi *see* **Eberlein, Ernst**, **2004a:91065**

Papanicolaou, George *see* **Cotton, Peter et al.**, **2004k:91102**

Pavlyukevich, Ilya *see* **Imkeller, Peter**, **2004m:60168**

Peng, Da Heng Continuous time models for long run portfolios. (Chinese. English and Chinese summaries)

Peng, Shige *see* **Liu, Yazeng**, **2004d:93129**

Pergamenshchikov, Sergei *see* **Kabanov, Yu. M.**, **2004c:93003**

Peskir, Goran A true buyer's risk and classification of options. (English summary) **2004e:91068**

Picard, Jean *see* **Milheiro de Oliveira, Paula**, **2004b:93132**

Pilipenko, Andrei Transformations of measures in infinite-dimensional spaces by a flow generated by a stochastic differential equation. (Russian. Russian summary) **2004h:28006**

Pleasants, A. B. *see* **Soboleva, T. K.**, **2004k:60188** *and* **Wake, Graeme et al.**
Preisler, Haiganoush K. *see* **Brillinger, David R. et al.**, **2004m:62232**
Privault, Nicolas *see* **Jeanblanc-Picqué, Monique**, **2004f:60122**
Qiu, Wei Yuan *see* **Chen, Jian-Hong et al.**, **2004k:91100**
Ramakrishnan, Narayanan *see* **Sri Namachchivaya, N. et al.**, (**2004j:60007**)
Rapoport Campodónico, Diego Lucio Random representations of viscous fluids and the passive magnetic fields transported on them. (English summary) **2004e:76038**
Real Anguas, José *see* **Garrido-Atienza, María J.**, **2004i:60094**
Reikvam, Kristin *see* **Benth, Fred Espen et al.**, **2004a:91056** *and* (**2004a:62014**)
Ren, Fu-Yao *see* **Wang, Xiao-Tian et al.**, **2004f:91088** *and* **Chen, Jian-Hong et al.**, **2004k:91100**
Repin, Yu. M. *see* **Mil'shteĭn, G. N. et al.**, **2004a:65009**
Robinson, Chris *see* **Milevsky, Moshe Arye**
Röckner, Michael *see* **Bogachev, Vladimir I. et al.**
Rodkina, A. E. On stabilization of hybrid stochastic equations. (English summary) **2004c:93125**
Rudnicki, Ryszard Long-time behaviour of a stochastic prey-predator model. (English summary) **2004h:60129**
Ruffino, Paulo R. C. Non-linear Iwasawa decomposition of stochastic flows: geometrical characterization and examples. (English summary) **2004j:58042**
Russo, Francesco *see* **Flandoli, Franco et al.**, **2004e:60110** *and* **Gradinaru, Mihai et al.**, **2004k:60152**
Rutkowski, Marek First passage time structural models with interest rate risk. (English summary) **2004e:60114**
Sabelfeld, K. K. (*with* Kolodko, Anastasya A.) Stochastic Lagrangian models and algorithms for spatially inhomogeneous Smoluchowski equation. (English summary) **2004a:65010**
Saleh, M. M. (*with* El-Kalla, I. L.) On the generality and convergence of Adomian's method for solving partial differential equations. (English summary) **2004b:60161**
Sambandham, M. *see* **Ladde, G. S.**, **2004k:34112**
Sandholm, William H. Evolution and equilibrium under inexact information. (English summary) **2004f:91030**
Sathananthan, S. *see* **Golec, J.**, **2004g:34088**
Schachermayer, Walter *see* **Gaier, J. et al.**, **2004k:91124**
Scheutzow, Michael K. R. *see* **Mohammed, Salah-Eldin A.**, **2004k:37102**
Schmidt, Thorsten[1] (*with* Stute, Winfried) Credit risk—a survey. (English summary) **2004k:91126**
Schroder, Mark Douglas (*with* Skiadas, Costis) Optimal lifetime consumption-portfolio strategies under trading constraints and generalized recursive preferences. (English summary) **2004i:91097**
Schumacher, J. M. Control and financial engineering. (English summary) **2004m:91122**
Schurz, Henri ★ Stability, stationarity, and boundedness of some implicit numerical methods for stochastic differential equations and applications. (English and German summaries)
— General theorems for numerical approximation of stochastic processes on the Hilbert space $H_2([0,T],\mu,\mathbb{R}^d)$. (English summary) **2004e:65014**
Selfridge, Colin *see* **Mao, Xuerong**, **2004f:34126**
Seydel, Rüdiger ★ Tools for computational finance. **2004g:65004**
Shi, Ke *see* **Li, Zhi-ming**
Shoji, Isao *see* **Takamizawa, Hideyuki**
Shreve, Steven E. *see* **Janeček, Karel**, **2004m:91113**
Sircar, K. Ronnie *see* **Jonsson, Mattias**, **2004j:91134** *and* **Cotton, Peter et al.**, **2004k:91102**
Skiadas, Costis *see* **Schroder, Mark Douglas**, **2004i:91097**
Smith, F. Donelson *see* **Budhiraja, Amarjit et al.**, **2004i:60098**
Soboleva, T. K. (*with* Pleasants, A. B.) Population growth as a nonlinear stochastic process. (English summary) **2004k:60188**
— *see also* **Wake, Graeme et al.**
Soner, Halil Mete (*with* Touzi, Nizar) A stochastic representation for mean curvature type geometric flows. (English summary) **2004e:60135**
Sørensen, Helle Simulated likelihood approximations for stochastic volatility models. (English summary) **2004d:62105**
Sowers, Richard B. Stochastic averaging near homoclinic orbits via singular perturbations. (English summary) **2004m:37113**
Spreij, Peter *see* **Dzhaparidze, Kacha et al.**, **2004c:60105** *and* **van Es, A. J. et al.**, **2004d:60088**
Sri Namachchivaya, N. (*with* Ramakrishnan, Narayanan; Van Roessel, H. J.; Vedula, L.) Stochastic stability of two coupled oscillators in resonance. (English summary) (*see* **2004j:60007**)
St-Amour, Pascal *see* **Gordon, Stephen**
Steblovskaya, V. *see* **Al'beverio, S. A.**, **2004c:91044**
Stuart, A. M. *see* **Humphries, A. R.**, **2004h:37077**
Stute, Winfried *see* **Schmidt, Thorsten**[1], **2004k:91126**
Takahashi, Akihiko (*with* Yoshida, Nakahiro) An asymptotic expansion scheme for optimal investment problems. (English summary)
Takamizawa, Hideyuki (*with* Shoji, Isao) On the accuracy of the local linear approximation for the term structure of interest rates. (English summary)
Tammelo, Risto *see* **Mankin, Romi et al.**
Tan, Ken Seng *see* **Lin, X. Sheldon**
Tang, Shanjian General linear quadratic optimal stochastic control problems with random coefficients: linear stochastic Hamilton systems and backward stochastic Riccati equations. (English summary) **2004d:49072**
— *see also* **Kohlmann, Michael**, **2004a:93095** *and* **2004f:93138**
Taniguchi, Takeshi The asymptotic behaviour of solutions to stochastic functional differential equations with finite delays by the Lyapunov-Razumikhin method. **2004j:34187**
Temam, Roger *see* **Ewald, B. D.**
Tian, Tianhai *see* **Burrage, Kevin**, **2004a:65008**
Timofeyev, Ilya *see* **Majda, Andrew J. et al.**, **2004j:86011**
Tleubergenov, M. I. Solution of a stochastic inverse problem by the method of the separation of the unknown system. (Russian. English, Russian and Kazakh summaries)
Todor, Fabian On the orthogonal polynomials of Pareto and applications on mathematical models. **2004e:42042**
Torondzhadze, T. A. *see* **Meladze, Gamlet**, **2004m:60091**
Touzi, Nizar *see* **Soner, Halil Mete**, **2004e:60135**
Tret'yakov, Mikhail V. *see* **Mil'shteĭn, G. N. et al.**, **2004a:65009**; **2004c:35192** *and* **2004e:60115**
Tudor, Constantin (*with* Tudor, Maria) On the two-parameter fractional Brownian motion and Stieltjes integrals for Hölder functions. (English summary) **2004k:60106**
Tudor, Maria *see* **Tudor, Constantin**, **2004k:60106**
Turchetti, Giorgio *see* **Bazzani, Armando et al.**, **2004k:82075**
Ugbebor, O. O. (*with* Onah, S. E.; Ojowu, O.) An empirical stochastic model of stock price changes. (English summary)
Unal, Gozde (*with* Krim, Hamid; Yezzi, Anthony, Jr.) Stochastic differential equations and geometric flows. (English summary) **2004c:94027**
Valkeĭla, È. *see* **Dzhaparidze, Kacha et al.**, **2004c:60105** *and* **Mishura, Yuliya S.**, **2004k:91116**
Vallois, Pierre *see* **Gradinaru, Mihai et al.**, **2004k:60152**
Vanden-Eijnden, Eric *see* **Kramer, Peter R. et al.**, **2004g:76080** *and* **Majda, Andrew J. et al.**, **2004j:86011**
Vanmaele, M. *see* **Deelstra, Griselda et al.**, **2004k:91103**
Van Roessel, H. J. *see* **Sri Namachchivaya, N. et al.**, (**2004j:60007**)
Vedula, L. *see* **Sri Namachchivaya, N. et al.**, (**2004j:60007**)
Veretennikov, A. Yu. On approximate large deviations for 1D diffusion. (English summary) **2004h:60037**
Veronesi, Pietro The peso problem hypothesis and stock market returns. (English summary) **2004g:91082**
Wake, Graeme (*with* Soboleva, T. K.; Pleasants, A. B.) The evolution of a truncated Gaussian probability density through time—modelling animal liveweights after selection. (English summary)
Walter, Stephan *see* **Bodie, Zvi et al.**, **2004j:91118**
Wang, Feng Yu Transportation cost inequalities on path spaces over Riemannian manifolds. (English summary) **2004d:58049**
Wang, Guo-jing *see* **Yuen, Kam C. et al.**, **2004j:60146**
Wang, J. *see* **Huang, Huaxiong et al.**
Wang, Xiang Rong (*with* Gao, Zi You; Wu, Zhen) Forward-backward stochastic differential equation and the linear quadratic stochastic optimal control. (English and Chinese summaries)
— *see also* **Wu, Zhen**
Wang, Xiao-Tian (*with* Ren, Fu-Yao; Liang, Xiang Qian) A fractional version of the Merton model. (English summary) **2004f:91088**
Weiss, Laurens *see* **Mathis, Wolfgang**, (**2004h:00023**)
Wentzell, A. D. *see* **Freidlin, M. I.**, **2004k:34089**
Wielhouwer, Jacco L. *see* **de Jong, Frank**
Wihstutz, Volker On stabilizing the double oscillator by mean zero noise. (English summary) **2004m:34088**
Wilfling, Bernd Interest rate volatility prior to monetary union under alternative pre-switch regimes. (English summary)
Wolf, Jochen[2] *see* **Flandoli, Franco et al.**, **2004e:60110**
Won, Sangchul *see* **Yue, Dong et al.**, **2004h:93148**
Wu, Cheng-Ru *see* **Lin, Chin-Tsai**, **2004c:91041**
Wu, Zhen (*with* Wang, Xiang Rong) FBSDE with Poisson process and its application to linear quadratic stochastic optimal control problem with random jumps. (English and Chinese summaries)
— *see also* **Wang, Xiang Rong et al.**
Xi, Fu Bao Invariant measures for random evolution equation with small perturbations. (Chinese. English and Chinese summaries)
Xiang, George *see* **Chen, Dian Fa**, **2004i:91106**
Xie, Wei-Chau Stability of a two-dimensional system under combined harmonic and real noise parametric excitations. (English summary) (*see* **2004j:60007**)
Xiong, De Wen (*with* Ye, Zhong Xing) Optimal utility with "side information" and its effect. (Chinese. English and Chinese summaries)
Xiong, Jie Large deviation principle for optimal filtering. (English summary) **2004c:93119**
Xu, Ping *see* **Liao, Chang-gao et al.**, **2004c:91052**
Xu, Shi Meng (*with* Zhang, Yu Zhong[1]) Preferred hedging pricing of contingent claims and asset optimization under transaction costs. (Chinese. English and Chinese summaries)
Yablonskiĭ, O. L. *see* **Koval'chuk, A. N. et al.**, **2004k:60185**
Yan, Feng *see* **Hu, Yaozhong et al.**, **2004m:60148**
Yan, Litan Maximal inequalities for a one-dimensional diffusion process. (English summary) **2004h:60120**
Yang, Hailiang *see* **Liu, Chi Sang**
Ye, Jin Chun *see* **Zhang, Cui Lan**, **2004m:91129**
Ye, Zhong Xing *see* **Lin, Jian Zhong**[1], **2004k:91112** *and* **Xiong, De Wen**
Yeh, Lung-Chu *see* **Lin, Chin-Tsai et al.**, **2004j:60144**
Yeung, David W. K. Overlapping generations randomly-furcating stochastic differential games: intertemporal strategic behavior under stochastic dynamics and uncertain payoffs. **2004d:91040**
Yezzi, Anthony, Jr. *see* **Unal, Gozde et al.**, **2004c:94027**
Yong, Jiongmin A leader-follower stochastic linear quadratic differential game. (English summary) **2004b:49080**
Yoshida, Nakahiro *see* **Takahashi, Akihiko**
Young, Virginia R. Equity-indexed life insurance: pricing and reserving using the principle of equivalent utility. (English summary) **2004e:91078**
Yuan, Chenggui (*with* Mao, Xuerong) Convergence of the Euler-Maruyama method for stochastic differential equations with Markovian switching. (English summary) **2004k:65018**
Yuan, Ming Deconvolving multivariate density from random field. (English summary) **2004i:62084**
Yue, Dong (*with* Fang, Jian'an; Won, Sangchul) Delay-dependent robust stability of stochastic uncertain systems with time delay and Markovian jump parameters. (English

summary) **2004h:93148**

Yuen, Kam C. (*with* Wang, Guo-jing; Ng, Kai Wang) Ruin probabilities for a risk process with stochastic return on investments. (English summary) **2004j:60146**

van Zanten, J. H. *see* **van Es, A. J. et al., 2004d:60088**

Zapatero, Fernando *see* **Cvitanić, Jakša, 2004m:91002**

Zhan, Hui Rong (*with* Cheng, Qian Sheng) A new multiple control variate estimator for Asian options. (Chinese. English and Chinese summaries)

Zhang, Cai Ya Parameter estimation of the drift coefficient of a diffusion process. (Chinese. English and Chinese summaries) **2004k:62074**

Zhang, Cui Lan (*with* Ye, Jin Chun) Option pricing problems when stock price returns have hyperbolic distribution. (Chinese. English and Chinese summaries) **2004m:91129**

Zhang, Jianfeng A numerical scheme for BSDEs. (English summary) **2004j:65015**

Zhang, Yu Zhong[1] *see* **Xu, Shi Meng**

Zhao, Yonggan (*with* Haussmann, Ulrich; Ziemba, William T.) A dynamic investment model with control on the portfolio's worst case outcome. (English summary) **2004h:91073**

Zhu, W. Q. (*with* Huang, Zhi Long) Lyapunov exponent and stability of optimally controlled quasi partially integrable Hamiltonian systems. (English summary) (*see* **2004j:60007**)

— (*with* Deng, M. L.; Huang, Zhi Long) Optimal bounded control of first-passage failure of quasi-integrable Hamiltonian systems with wide-band random excitation. (English summary)

— (*with* Huang, Zhi Long) Stochastic stabilization of quasi-partially integrable Hamiltonian systems by using Lyapunov exponent. (English summary)

Zhu, Xia Convergence of the Euler scheme for a stochastic differential equation. (Chinese. English and Chinese summaries) **2004h:60104**

Ziemba, William T. *see* **Zhao, Yonggan et al., 2004h:91073**

Zou, Heng-Fu *see* **Gong, Liutang, 2004h:91094**

Zou, Jie Zhong *see* **Chen, Chao[1] et al., 2004j:91121**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Esser, Angelika, 2004m:91005**

60H15 Stochastic partial differential equations [see also 35R60]

Ait Ouahra, M. (*with* Eddahbi, M.; Lakhel, El Hassan) Large deviations and functional law for solutions of hyperbolic stochastic partial differential equations. (English summary) **2004j:60130**

Al′beverio, S. A. (*with* Rüdiger, B.) Infinite-dimensional stochastic differential equations obtained by subordination and related Dirichlet forms. (English summary) **2004g:60094**

Allouba, Hassan SDDEs limits solutions to sublinear reaction-diffusion SPDEs. (English summary) **2004i:60090**

Anabtawi, M. J. (*with* Sathananthan, S.) Large-scale stochastic hybrid parabolic systems under jump Markovian perturbations. II. Convergence and stability via Lyapunov functionals. (English summary) **2004b:60156**

Anh, V. V. (*with* Leonenko, N. N.) Harmonic analysis of random fractional diffusion-wave equations. (English summary)

Babuška, Ivo (*with* Liu, Kang-Man; Tempone, Raúl) Solving stochastic partial differential equations based on the experimental data. (English summary) **2004d:60160**

Baggio, C. *see* **Vvedensky, D. D. et al., 2004k:60182**

Bardina, Xavier (*with* Rovira, Carles; Tindel, Samy) Onsager Machlup functional for stochastic evolution equations in a class of norms. (English summary) **2004i:60091**

Belinskiĭ, B. P. (*with* Caithamer, Peter) Stochastic stability of some mechanical systems with a multiplicative white noise. (English summary) **2004j:60131**

— (*with* Caithamer, Peter) Stability of dynamical systems with a multiplicative white noise. (English summary) **2004f:60136**

Bertini, L. (*with* Buttà, Paolo; Presutti, E.; Saada, Ellen) Interface fluctuations in a conserved system: derivation and long time behaviour. (English summary) **2004g:60095**

Blömker, Dirk Amplitude equations for locally cubic nonautonomous nonlinearities. (English summary) **2004k:60174**

— (*with* Maier-Paape, Stanislaus) Pattern formation below criticality forced by noise. (English summary) **2004b:60157**

Bonaccorsi, Stefano (*with* Guatteri, G.) Classical solutions for SPDEs with Dirichlet boundary conditions. (English summary) **2004a:60115**

de Bouard, Anne (*with* Debussche, Arnaud) Explosion en temps fini pour l'équation de Schrödinger non linéaire stochastique surcritique. [Finite-time blowup for the supercritical stochastic nonlinear Schrödinger equation] (*see* **2004g:35004**)

— (*with* Debussche, Arnaud) A semi-discrete scheme for the stochastic nonlinear Schrödinger equation. (English summary) **2004m:60134**

Buckdahn, Rainer Backward stochastic differential equations and viscosity solutions of semilinear parabolic deterministic and stochastic PDE of second order. (English summary) **2004d:60161**

Buttà, Paolo *see* **Bertini, L. et al., 2004g:60095**

Caithamer, Peter Large and small deviations of a string driven by a two-parameter Gaussian noise white in time. (English summary) **2004j:60132**

— *see also* **Belinskiĭ, B. P., 2004f:60136** *and* **2004j:60131**

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Cerrai, Sandra Classical solutions for Kolmogorov equations in Hilbert spaces. (English summary) **2004a:60116**

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Lisei, Hannelore The Markov property for the solution of the stochastic Navier-Stokes equation. (English summary) **2004c:60186**

— A minimum principle for the stochastic Navier-Stokes equation. (English summary) **2004m:60140**

Liu, Di Convergence of the spectral method for stochastic Ginzburg-Landau equation

driven by space-time white noise. (English summary) **2004c:60187**

Liu, Kang-Man *see* **Babuška, Ivo et al., 2004d:60160**

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Lototskiĭ, S. V. Parameter estimation for stochastic parabolic equations: asymptotic properties of a two-dimensional projection-based estimator. (English summary) **2004c:60188**

Lu, Kening *see* **Duan, Jinqiao et al., 2004m:60136**

Maier-Paape, Stanislaus *see* **Blömker, Dirk, 2004b:60157**

Mancini, C. Uniqueness of the solution to a difference-partial differential equation for finance. (English summary) **2004h:60098**

Marnik, Tomasz *see* **Twardowska, Krystyna et al., 2004e:60109**

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Mueller, Carl E. *see* **Dalang, Robert C., 2004a:60118**

Nadirashvili, Nikolai *see* **Kuksin, S. B. et al., 2004b:60158**

van Neerven, J. M. A. M. *see* **Kühnemund, Franziska, 2004m:60139**

Nekrutkin, V. Kac particle systems with free motion and equations of Boltzmann type. (English summary) **2004d:60169**

Nualart, David *see* **Erraoui, Mohamed et al., 2004i:60093**

Ouknine, Youssef *see* **Erraoui, Mohamed et al., 2004i:60093**

Pasławaska-Połuniak, Monika *see* **Twardowska, Krystyna et al., 2004e:60109**

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Popescu-Bodorin, N. *see* **Varsan, Constantin**

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Presutti, E. *see* **Bertini, L. et al., 2004g:60095**

Pyasetskaya, Tat′yana E. On asymptotic solutions of boundary problem for randomly perturbed wave equation. (English summary) **2004j:60138**

Pyatnitskii, Andrei L. (*with* Zhao, Huai Zhong; Zheng, Wei An) Solutions to a class of multidimensional SPDEs. (English summary) **2004b:60159**

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Quer-Sardanyons, Lluís (*with* Sanz-Solé, Marta) Existence of density for the solution to the three-dimensional stochastic wave equation. (English and Spanish summaries) **2004k:60179**

Real Anguas, José *see* **Caraballo Garrido, Tomás et al., 2004e:60105** *and* **Garrido-Atienza, María J., 2004i:60094**

Rincón, Luis A. Phase space path integral representation for the solution of a stochastic Schrödinger equation. (English summary) **2004m:60142**

Roth, Christian Difference methods for stochastic partial differential equations. (English summary) **2004b:60160**

Rovira, Carles *see* **Bardina, Xavier et al., 2004i:60091**

Rüdiger, B. *see* **Al′beverio, S. A., 2004g:60094**

Saada, Ellen *see* **Bertini, L. et al., 2004g:60095**

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Sanz-Solé, Marta (*with* Vuillermot, Pierre-A.) Equivalence and Hölder-Sobolev regularity of solutions for a class of non-autonomous stochastic partial differential equations. (English and French summaries) **2004e:60108**

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Sarrà, Mònica *see* **Márquez-Carreras, David, 2004d:60167** *and* **León, Jorge A., 2004k:60178**

Sathananthan, S. *see* **Anabtawi, M. J., 2004b:60156**

Schmalfuss, Björn *see* **Duan, Jinqiao et al., 2004m:60136**

Shiga, Tokuzo *see* **Cranston, M. et al., 2004d:60162**

Stuart, A. M. *see* **Pavliotis, G. A., 2004m:60141**

Sun, Wei[3] *see* **Kouritzin, Michael A. et al., 2004c:60185** *and* **2004m:60138**

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Ton, Bui An An inverse problem for a nonlinear stochastic wave equation. (English summary) **2004k:60181**

Tornatore, Elisabetta Stochastic equation of population dynamics with diffusion on a domain. (English summary) **2004c:60189**

Tsai, Che-Yuan *see* **Huang, Yenkun, 2004k:60176** *and* **Huang, Shu-Shiang et al., 2004m:60137**

Tudor, Ciprian A. *see* **Tindel, Samy et al., 2004k:60180**

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Ungureanu, Viorica Mariela Representations of mild solutions of time-varying linear stochastic equations and the exponential stability of periodic systems. (English summary) **2004m:60143**

Vardavas, R. *see* **Vvedensky, D. D. et al., 2004k:60182**

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Viens, Frederi G. *see* **Tindel, Samy et al., 2004b:60162** *and* **2004k:60180**

Voß-Böhme, Anja Asymptotic mass distribution speed for the one-dimensional heat equation with constant drift and stationary potential. (English summary) **2004d:60171**

Vuillermot, Pierre-A. *see* **Sanz-Solé, Marta, 2004e:60108**

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Wang, Hao[5] *see* **Dawson, Donald A. et al., 2004k:60175**

Xie, Yingchao Exact solutions for stochastic KdV equations. (English summary) **2004d:60172**

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Zhao, Huai Zhong *see* **Pyatnitskii, Andrei L. et al., 2004b:60159**

Zheng, Wei An *see* **Pyatnitskii, Andrei L. et al., 2004b:60159** *and* **Zhang, Tu-Sheng, 2004d:60173**

Items with secondary classifications in 60H15

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Debusschere, B. J. *see* **Le Maître, O. P. et al., 2004h:65012**

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Florchinger, Patrick Stabilization of passive nonlinear stochastic differential systems by bounded feedback. (English summary) **2004g:93124**
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Fouque, Jean-Pierre (*with* Sølna, Knut) Time-reversal aperture enhancement. (English summary) **2004e:76101**
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Gangbo, Wilfrid *see* **Carlen, Eric A., 2004c:49027**
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— Instability of a quantum particle induced by a randomly varying spring coefficient. (English summary) **2004a:82007**
Garrido-Atienza, María J. *see* **Caraballo Garrido, Tomás et al., 2004i:93191**
(Gerber, Hans U.) *see* **Imai, Junichi**
Ghanem, R. G. *see* **Le Maître, O. P. et al., 2004h:65012** *and* **Jardak, M., 2004k:65014**
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Giraud, Christophe On a shock front in Burgers turbulence. (English summary) **2004b:35218**
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Goodman, Victor *see* **Allouba, Hassan, 2004j:91162**
Gordina, Maria Stochastic differential equations on noncommutative L^2. (English summary) **2004e:46078**
Gozzi, F. *see* **Goldys, B. et al., 2004a:60107**
Grigelionis, Bronius An analogue of Gnedenko's theorem for stationary diffusions. (English summary) **2004k:60218**
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Guatteri, G. *see* **Al′beverio, S. A. et al., 2004c:81151**
Habib, Salman *see* **Lythe, G. D., (2004j:60007)**
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Huang, Zhi Long *see* **Zhu, W. Q. et al., 2004g:70044**
Ijacu, Daniela (*with* Varsan, Constantin) Smooth mappings and non $\mathcal{F}_T$-adapted solutions associated with Hamilton-Jacobi stochastic equations. (English summary) **2004f:49054**
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Jesudason, Christopher G. New μ-space stochastic equation for dynamical systems in Liouville form. (English summary) **2004h:82063**
— *see also* **Errata: "New μ-space stochastic equation for dynamical systems in Liouville form"**
Jin, Shi *see* **Fannjiang, Albert C. et al., 2004e:35208**
Kampen, Jörg On American derivatives and related obstacle problems. (English summary) **2004h:49047**
Khanin, Konstantin *see* **Iturriaga, Renato, 2004b:76079**
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Kleptsyna, Marina (*with* Pyatnitskii, Andrei L.) Homogenization of random nonstationary convection-diffusion problem. (English summary) **2004i:35030**
Kloeden, Peter E. *see* **Duan, Jinqiao et al., 2004b:76066**
Knio, Omar M. *see* **Le Maître, O. P. et al., 2004h:65012**
Kohatsu-Higa, Arturo Lower bounds for densities of uniformly elliptic random variables on Wiener space. (English summary) **2004d:60141**
Kondrat′ev, Yu. G. *see* **Grothaus, Martin et al., 2004b:60011**
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Krylov, Nicolai V. One more square root law for Brownian motion and its application to SPDEs. (English summary) **2004k:60109**
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Kulik, A. M. Large deviations for smooth measures. (English summary) **2004j:60058**
Kumar, K. Suresh *see* **Ghosh, Mrinal K., 2004d:91031**
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Lerner, Nicolas *see* **Hu, Ying[1], 2004c:60174**
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Gallant, A. Ronald *see* **Ahn, Dong-Hyun et al.**
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(Gerber, Hans U.) *see* **Imai, Junichi**
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Onah, S. E. *see* **Ugbebor, O. O. et al.**
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Rutkowski, Marek First passage time structural models with interest rate risk. (English summary) **2004e:60114**
Ryznar, Michał *see* **Jakubėnas, Paulius et al., 2004a:60121**
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Sylvester, John *see* **Burdzy, Krzysztof et al., 2004k:60187**
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Tevzadze, Revaz *see* **Mania, Mikhael, 2004h:60102**
Thangavelu, Sundaram *see* **Rajeev, B., 2004g:60100**
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Items with secondary classifications in 60H30

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Detemple, Jérôme B. *see* **Bodie, Zvi et al., 2004j:91118**
Douady, Raphaël *see* **Bardos, Claude et al., 2004b:91086**
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Mountford, Thomas S. *see* **Cranston, M. et al., 2004d:60162**
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Otruba, Susanne *see* **Bodie, Zvi et al., 2004j:91118**
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Picard, Jean *see* **Milheiro de Oliveira, Paula, 2004b:93132**
Privault, Nicolas *see* **Jeanblanc-Picqué, Monique, 2004f:60122**
Qin, Mingda *see* **Liu, Kun Hui et al., 2004j:93134**
Qiu, Wei Yuan *see* **Chen, Jian-Hong et al., 2004k:91100**
Rajagopal, Rajalakshmi *see* **Jeeva, M. et al.**
Ren, Fu-Yao *see* **Chen, Jian-Hong et al., 2004k:91100**
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Rüschendorf, Ludger *see* **Goll, Thomas, 2004f:60099**
Santacroce, Marina *see* **Mania, Mikhael et al., 2004f:91080**
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Schumacher, J. M. Control and financial engineering. (English summary) **2004m:91122**
Schurz, Henri ★ Stability, stationarity, and boundedness of some implicit numerical methods for stochastic differential equations and applications. (English and German summaries)
Shcherbina, Mariya *see* **Pastur, Leonid, 2004g:60012**
Shephard, Neil *see* **Barndorff-Nielsen, Ole E., 2004d:91098**
Shi, Ke *see* **Li, Zhi-ming**
Shiga, Tokuzo *see* **Cranston, M. et al., 2004d:60162**
Shoji, Isao *see* **Takamizawa, Hideyuki**
Shreve, Steven E. *see* **Janeček, Karel, 2004m:91113**
Sircar, K. Ronnie *see* **Cotton, Peter et al., 2004k:91102**
Spreij, Peter *see* **Dzhaparidze, Kacha et al., 2004c:60105**
St-Amour, Pascal *see* **Gordon, Stephen**
Stuart, A. M. *see* **Pavliotis, G. A., 2004m:60141**
Stute, Winfried *see* **Schmidt, Thorsten[1], 2004k:91126**
Sun, Xiaodong *see* **Ma, Jin[1], 2004f:60128**
Takamizawa, Hideyuki (*with* Shoji, Isao) On the accuracy of the local linear approximation for the term structure of interest rates. (English summary)
Tang, Shanjian *see* **Kohlmann, Michael, 2004f:93138**
Tevzadze, Revaz *see* **Mania, Mikhael et al., 2004f:91080**
Thalmaier, Anton *see* **Arnaudon, Marc, 2004c:58073**
Thieullen, Michèle *see* **Baudoin, Fabrice, 2004k:60120**
Thomann, Enrique (*with* Waymire, Edward C.) Contingent claims on assets with conversion costs. (English summary) **2004b:91108**
(Thomas, Alan) *see* **Bouleau, Nicolas**
Timofeyev, Ilya *see* **Majda, Andrew J. et al., 2004j:86011**
Tret′yakov, Mikhail V. *see* **Mil′shteĭn, G. N., 2004c:35192** *and* **2004e:60115**
Tysk, Johan *see* **Janson, Svante, 2004d:60151**
Ubøe, Jan *see* **Øksendal, Bernt et al., 2004c:93116**
Unal, Gozde (*with* Krim, Hamid; Yezzi, Anthony, Jr.) Stochastic differential equations and geometric flows. (English summary) **2004c:94027**
Valkeĭla, È. *see* **Dzhaparidze, Kacha et al., 2004c:60105** *and* **Mishura, Yuliya S., 2004k:91116**
Vanden-Eijnden, Eric *see* **Majda, Andrew J. et al., 2004j:86011**
Vanmaele, M. *see* **Deelstra, Griselda et al., 2004k:91103**
Veronesi, Pietro The peso problem hypothesis and stock market returns. (English summary) **2004g:91082**
Walter, Stephan *see* **Bodie, Zvi et al., 2004j:91118**
Waymire, Edward C. *see* **Thomann, Enrique, 2004b:91108**
Weerasinghe, Ananda Minimizing infinite time horizon discounted cost with mean, variance, and bounded variation controls. (English summary) **2004m:49077**
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60Jxx Markov processes

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Zhou, Zhan Gong *see* **Peng, Xiang Yang**

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60J10 Markov chains with discrete parameter

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— Uniformly strongly ergodic classes. (English summary) **2004f:60150**

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Peres, Yuval *see* **Lyons, Russell et al., 2004j:60153**
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Prodinger, Helmut *see* **Louchard, Guy, 2004c:60121**
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60J27 Markov chains with continuous parameter

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60J35 Transition functions, generators and resolvents [see also 47D03, 47D07]

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60J40 Right processes

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60J45 Probabilistic potential theory [see also 31Cxx, 31D05]

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60J50 Boundary theory

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60J55 Local time and additive functionals

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60J57 Multiplicative functionals

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Nobile, A. G. *see* **Giorno, V. et al., 2004m:60167**
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van Zanten, J. H. On uniform laws of large numbers for ergodic diffusions and consistency of estimators. (English summary) **2004f:60170**
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Jiang, Jiancheng *see* **Fan, Jianqing et al.**
Karatzas, Ioannis *see* **Dayanik, Savas**, **2004d:60104**
Kharlamov, B. P. Absolute continuity of measures in the class of semi-Markov processes of diffusion type. (Russian. English and Russian summaries) **2004k:60245**
Kifer, Yuri L^2 diffusion approximation for slow motion in averaging. (English summary) **2004f:60066**
Kijima, Masaaki ★ Stochastic processes with applications to finance. **2004d:60002**
Kim, Hyung Geun Filtering of hidden diffusion processes. (English summary) **2004c:60124**
Kochubeĭ, A. N. (*with* Ēidel′man, S. D.) Equations of one-dimensional fractal diffusion. (Russian. English summary) **2004m:35113**
Konakov, Valentin (*with* Mammen, Enno) Edgeworth type expansions for Euler schemes for stochastic differential equations. (English summary) **2004e:60098**
Kondrat′ev, Yu. G. *see* **Grothaus, Martin et al.**, **2004b:60011**
Kopytko, Bogdan I. (*with* Tsapovs′ka, Zh. Ya.) Diffusion processes with discontinuous local characteristics of the movement. (English summary) **2004j:60121**
Korostelev, A. P. (*with* Korosteleva, Olga A.) Limit theorem for the spread of branching diffusion with stabilizing drift. (English summary) **2004e:60142**
Korosteleva, Olga A. *see* **Korostelev, A. P.**, **2004e:60142**
Kovats, Jay The Kolmogorov equation with time-measurable coefficients. (English summary) **2004g:35108**
Kulasiri, D. *see* **Verwoerd, W. S.**, **2004k:76119**
Kurenok, V. P. *see* **Engelbert, Hans-Jürgen**, **2004e:60093**
Kuthan, Hartmut A mathematical model of single target site location by Brownian movement in subcellular compartments. (English summary)
Kutner, Ryszard (*with* Świtała, Filip) Possible origin of the non-linear long-term autocorrelations within the Gaussian regime. (English summary)
Kutoyants, Yurii (*with* Negri, I.) On L_2 efficiency of empiric distribution for ergodic diffusion processes. (Russian) **2004d:62186**
Kuwae, Kazuhiro *see* **Fitzsimmons, Patrick J.**, **2004k:31020**
Kuznetsov, S. E. Boundary theory for superdiffusions. **2004m:35099**
Kwok, Yue Kuen *see* **Wong, Hoi Ying**
Landén, Camilla *see* **Björk, Tomas**, **2004a:91058**
Langa, José Antonio *see* **Valero, José et al.**, **2004k:37175**
Lange, Kenneth ★ Applied probability. **2004a:60001**
Ledoux, M. Differential operators and spectral distributions of invariant ensembles from the classical orthogonal polynomials. The continuous case. (English summary) **2004m:60070**
Lefebvre, Mario Survival maximization for a Laguerre population. (English summary) **2004d:60215**
— (*with* Akhbi, Mohamed) On the mean of first hitting places. (English summary) **2004d:60216**
— Integrated diffusion processes inside rectangles. (English summary) **2004b:60203**
— First-passage problems for degenerate two-dimensional diffusion processes. (English summary) **2004d:60217**
— A homing problem for diffusion processes with control-dependent variance. (English summary) **2004m:93145**
Levendorskiĭ, Sergei Consistency conditions for affine term structure models. (English summary) **2004k:91111**
Li, Chunwah (*with* Dong, Zhao; Situ, Rong) Almost sure stability of linear stochastic differential equations with jumps. (English summary) **2004c:60237**
Li, Rong *see* **Bi, Xiu Chun et al.**
Li, Wenbo V. *see* **Chen, Xia[1]**, **2004j:60078**
Liang, Song Large deviation principles for a type of diffusion processes on Euclidean space. (English summary) **2004m:60053**
Lin, Qing Min (*with* Wang, Rong Ming) Estimates of bounds on ruin probabilities under perturbed risk models. (Chinese. English and Chinese summaries) **2004j:60176**
Linetsky, Vadim *see* **Gorovoi, Viatcheslav**, **2004j:91129**
Liu, Jian Min Diffusion approximations for the queue length process of queueing networks with HL priority service discipline in heavy traffic. (Chinese. English and Chinese summaries) **2004a:60151**
Löbus, Jörg-Uwe Closability of positive symmetric bilinear forms with applications to classical and stable forms on finite and infinite dimensional state spaces. **2004j:31016**
Lőrinczi, József *see* **Betz, Volker**, **2004g:60115**
Lytvynov, Eugene *see* **Grothaus, Martin et al.**, **2004b:60011**
Mammen, Enno *see* **Konakov, Valentin**, **2004e:60098**
Mao, Yong-Hua Strong ergodicity for Markov processes by coupling methods. (English summary) **2004b:60185**
Markov, Konstantin Zdravkov A new bound on the absorption coefficient of a two-phase medium. (English summary) **2004g:80007**
Mel′nik, V. S. *see* **Valero, José et al.**, **2004k:37175**
Mesnager, Laurent *see* **Cattiaux, Patrick**, **2004d:60178**
Miclo, Laurent Sur l'inégalité de Sobolev logarithmique des opérateurs de Laguerre à petit paramètre. (French summary) [Logarithmic Sobolev inequality of small-parameter Laguerre operators] **2004b:60056**
Mitov, Kosto V. (*with* Yanev, George P.) Diffusion approximation of a branching process with increasing to infinity offspring variance. (English and Bulgarian summaries) **2004i:60124**
Mitter, Sanjoy K. *see* **Borkar, Vivek S.**, **2004g:93151**
Mohari, Anilesh Ergodicity of homogeneous Brownian flows. (English summary) **2004m:60127**
Möhle, Martin (*with* Sagitov, Serik) Coalescent patterns in diploid exchangeable population models. (English summary) **2004j:92079**
Moody, Michael E. *see* **Switkes, Jennifer M.**, (**2004k:60004**)
Nadler, B. (*with* Naeh, T.; Schuss, Zeev) Connecting a discrete ionic simulation to a continuum. (English summary) **2004h:60128**
Naeh, T. *see* **Nadler, B. et al.**, **2004h:60128**
Nardon, Martina *see* **Basso, Antonella et al.**
Narita, Kiyomasa Singularly perturbed linear SDE driven by fractional Brownian noise. (English summary) **2004f:60129**
Negri, I. *see* **Kutoyants, Yurii**, **2004d:62186**
Neumann, C. D. D. *see* **Hoogland, J. K. et al.**, **2004b:60204**
Nguyen, Thong H. *see* **Bandi, Federico M.**, **2004g:62068**
Nicolau, João Bias reduction in nonparametric diffusion coefficient estimation. (English summary) **2004g:62076**
Øksendal, Bernt ★ Stochastic differential equations. **2004e:60102**
Papanicolaou, George *see* **Fouque, Jean-Pierre et al.**, **2004g:91070**
Paulsen, Jostein Optimal dividend payouts for diffusions with solvency constraints. (English summary) **2004m:49076**
Pavon, Michele Quantum Schrödinger bridges. (English summary) **2004k:81083**
Pedersen, Jesper Lund (*with* Peskir, Goran) On nonlinear integral equations arising in problems of optimal stopping. (English summary) **2004c:60127**
— Optimal prediction of the ultimate maximum of Brownian motion. (English summary) **2004d:60107**
Perera, Gonzalo (*with* Wschebor, Mario) Inference on the variance and smoothing of the paths of diffusions. (English and French summaries) **2004d:62176**
Peskir, Goran *see* **Pedersen, Jesper Lund**, **2004c:60127** *and* **Gapeev, P. V.**, **2004k:62185**
Pianca, Paolo *see* **Basso, Antonella et al.**
Pinchover, Yehuda Large time behavior of the heat kernel. (English summary) **2004k:35158**
Pollak, Ilya Nonlinear diffusions and optimal estimation. (English summary) (*see* **2004k:68008**)
Qian, Zhongmin (*with* Zheng, Wei An) Sharp bounds for transition probability densities of a class of diffusions. (English and French summaries) **2004c:60215**
— (*with* Russo, Francesco; Zheng, Wei An) Comparison theorem and estimates for transition probability densities of diffusion processes. (English summary) **2004j:60126**
Raimond, Olivier *see* **Benaïm, Michel**, **2004i:60148**
Rapoport Campodónico, Diego Lucio Random representations of viscous fluids and the passive magnetic fields transported on them. (English summary) **2004e:76038**
Reikvam, Kristin *see* **Benth, Fred Espen**, **2004k:60114**
Rider, B. Brownian motion with restoring drift: micro-canonical ensemble and the thermodynamic limit. (English summary) **2004a:82038**
Röckner, Michael *see* **Grothaus, Martin et al.**, **2004b:60011**; **Bogachev, Vladimir I. et al.**, **2004h:60086** *and* **2004k:60208**
Rudnicki, Ryszard Long-time behaviour of a stochastic prey-predator model. (English summary) **2004h:60129**
Russo, Francesco *see* **Qian, Zhongmin et al.**, **2004j:60126**
Sacerdote, Laura (*with* Zucca, Cristina) Threshold shape corresponding to a gamma firing distribution in an Ornstein-Uhlenbeck neuronal model. (English summary)
— (*with* Sirovich, Roberta) Multimodality of the interspike interval distribution in a simple jump-diffusion model. (English summary)
Sagitov, Serik *see* **Möhle, Martin**, **2004j:92079**
Sbeiti, Wafaa M. *see* **Al-Eideh, Basel M. et al.**
Schurz, Henri ★ Stability, stationarity, and boundedness of some implicit numerical methods for stochastic differential equations and applications. (English and German summaries)
Schuss, Zeev *see* **Nadler, B. et al.**, **2004h:60128**
Shao, Sai Lai Asymptotic solutions of diffusion models for risk reserves. (English summary) **2004g:35110**
Shigekawa, Ichiro Littlewood-Paley inequality for a diffusion satisfying the logarithmic Sobolev inequality and for the Brownian motion on a Riemannian manifold with boundary. **2004a:58043**
Simon, Thomas D. Concentration of the Brownian bridge on the hyperbolic plane. (English summary) **2004a:58044**
Sircar, K. Ronnie *see* **Fouque, Jean-Pierre et al.**, **2004g:91070**
Sirovich, Roberta *see* **Sacerdote, Laura**
Situ, Rong *see* **Li, Chunwah et al.**, **2004c:60237**
Skorokhod, Anatolii V. Diffusion approximation of the first integrals for randomly perturbed differential equations with some applications to mechanical and biological systems. (English summary) **2004h:60094**
Sølna, Knut *see* **Fouque, Jean-Pierre et al.**, **2004g:91070**
Soner, Halil Mete (*with* Touzi, Nizar) Dynamic programming for stochastic target problems and geometric flows. (English summary) **2004d:93142**

Suciu, Nicolae *see* **Vamoş, Călin et al., 2004h:65010**
Svishchuk, A. V. (*with* Wu, Jian Hong) Averaging and diffusion approximation of vector difference equations in random media with applications to biological systems. (English summary)
— (*with* Wu, Jian Hong) Limit theorems for difference equations in random media with applications to biological systems. **2004e:60165**
Swart, Jan M. *see* **Fleischmann, Klaus, 2004h:60127**
Świtała, Filip *see* **Kutner, Ryszard**
Switkes, Jennifer M. (*with* Moody, Michael E.) On geographically-uniform coevolution: local adaptation in non-fluctuating spatial patterns. (English summary) (*see* **2004k:60004**)
Touzi, Nizar *see* **Soner, Halil Mete, 2004d:93142**
Tribe, Roger *see* **Jacka, Saul, 2004d:60122**
Trutnau, Gerald On a class of non-symmetric diffusions containing fully nonsymmetric distorted Brownian motions. (English summary) **2004a:31007**
Tsai, Cary Chi-Liang On the expectations of the present values of the time of ruin perturbed by diffusion. (English summary) **2004e:91077**
Tsapovs'ka, Zh. Ya. *see* **Kopytko, Bogdan I., 2004j:60121**
Tsohantjis, Ioannis *see* **Ellinas, Demosthenes, 2004f:60102**
Turchetti, Giorgio *see* **Bazzani, Armando et al., 2004k:82075**
Valero, José (*with* Caraballo Garrido, Tomás; Langa, José Antonio; Mel'nik, V. S.) Attractors of nonautonomous and stochastic differential inclusions. (Ukrainian. English summary) **2004k:37175**
Vamoş, Călin (*with* Suciu, Nicolae; Vereecken, Harry) Generalized random walk algorithm for the numerical modeling of complex diffusion processes. (English summary) **2004h:65010**
Vellekoop, M. H. *see* **Hoogland, J. K. et al., 2004b:60204**
Vereecken, Harry *see* **Vamoş, Călin et al., 2004h:65010**
Verwoerd, W. S. (*with* Kulasiri, D.) Theory of diffusions applied to stochastic flow in porous media. (English summary) **2004k:76119**
Villarroel, Javier On solutions to Ito stochastic differential equations. (English summary) **2004j:60129**
Wang, Feng Yu Functional inequalities for the decay of sub-Markov semigroups. (English summary) **2004a:47051**
— Equivalence of dimension-free Harnack inequality and curvature condition. (English summary) **2004m:58061**
Wang, Hao[5] State classification for a class of interacting superprocesses with location dependent branching. (English summary) **2004d:60255**
Wang, Rong Ming *see* **Lin, Qing Min, 2004j:60176**
Wang, Shu *see* **Xiao, Ling**
Wang, Xin Hua *see* **Bi, Xiu Chun et al.**
Ward, Amy R. (*with* Glynn, Peter W.) Properties of the reflected Ornstein-Uhlenbeck process. (English summary) **2004g:60127**
Warren, Jon The noise made by a Poisson snake. (English summary) **2004c:60180**
Wentzell, A. D. *see* **Freidlin, M. I., 2004k:34089**
Wong, Hoi Ying (*with* Kwok, Yue Kuen) Jump diffusion models for risky debts: quality spread differentials. (English summary)
Wschebor, Mario *see* **Perera, Gonzalo, 2004d:62176**
Wu, Jian Hong *see* **Svishchuk, A. V., 2004e:60165**
Wu, Jun[2] (*with* Xiao, Yimin) Exact Hausdorff measure of the graph of Brownian motion on the Sierpiński gasket. (English summary) **2004a:60083**
Xiao, Ling (*with* Wang, Shu) Quasineutral limit of a nonlinear drift diffusion model for semiconductors: the fast diffusion case. (English and Chinese summaries)
Xiao, Yimin *see* **Wu, Jun[2], 2004a:60083**
Yan, Litan Maximal inequalities for a continuous semimartingale. (English summary) **2004f:60134**
Yanev, George P. *see* **Mitov, Kosto V., 2004i:60124**
Yor, Marc *see* **Jacobsen, Martin, 2004g:60062** *and* **Bru, Bernard**
Yoshida, Nakahiro Conditional expansions and their applications. (English summary) **2004h:60055**
Yu, Jun[6] Empirical characteristic function estimation and its applications. (English summary)
Zaitseva, Ludmila L. On a probabilistic approach to the construction of the generalized diffusion processes. (English summary) **2004f:60142**
Zhang, Cai Ya Parameter estimation of the drift coefficient of a diffusion process. (Chinese. English and Chinese summaries) **2004k:62074**
Zhang, Chunming M. *see* **Fan, Jianqing et al., 2004a:62078**
Zhang, Han Jun *see* **Dong, Ying Hua**
Zheng, Wei An *see* **Qian, Zhongmin et al., 2004c:60215** *and* **2004j:60126**
Zhou, Zhenwei *see* **Fan, Jianqing et al.**
Zhu, Wenge Risk-based capital factor determination with jump risk. (English summary)
Zucca, Cristina *see* **Sacerdote, Laura**
Zverev, V. V. Noise transformation in nonlinear system with intensity dependent phase rotation. (English summary) **2004k:37099**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Esser, Angelika, 2004m:91005**

60J65 Brownian motion [see also 58J65]

Abd El-Moneim, M. A. *see* **El-Rayes, A. B. et al., 2004f:60173**
Abou Gabal, Hamdy M. *see* **El-Rayes, A. B. et al., 2004f:60173**
Abu-Mostafa, Yaser S. *see* **Magdon-Ismail, Malik et al.**
Agudov, Nikolay V. (*with* Safonov, AlekseĭVladimirovich) Time of relaxation to a stationary nonequilibrium density of Brownian particles in a medium with a source and a sink. (Russian. English and Russian summaries) **2004b:60196**
Alabert, Aureli (*with* Farré, Mercè; Roy, Rahul) Exit times from equilateral triangles. (English summary) **2004j:60175**
Allouba, Hassan A linearized Kuramoto-Sivashinsky PDE via an imaginary-Brownian-time-Brownian-angle process. (English and French summaries) **2004b:60197**
Atiya, Amir F. *see* **Magdon-Ismail, Malik et al.**
Bakun, Vladimir V. Some functionals generated by distributions for Brownian motion. (English summary) **2004h:60121**
Bardina, Xavier The complex Brownian motion as a weak limit of processes constructed from a Poisson process. (English summary) **2004a:60132**
Beffara, Vincent On conformally invariant subsets of the planar Brownian curve. (English and French summaries) **2004h:60122**
Beghin, Luisa (*with* Nikitin, Yakov; Orsingher, Enzo) How the sojourn time distributions of Brownian motion are affected by different forms of conditioning. (English summary) **2004m:60173**
Bendikov, A. D. (*with* Saloff-Coste, Laurent) On the sample paths of Brownian motions on compact infinite dimensional groups. (English summary) **2004f:60171**
— (*with* Saloff-Coste, Laurent) Central Gaussian convolution semigroups on compact groups: a survey. (English summary) **2004k:60222**
Ben Tahar, Abdelghani *see* **El Kharroubi, Ahmed et al., 2004c:60232**
Bentkus, V. (*with* Pap, Gyula[1]; Yor, Marc) Optimal bounds for Cauchy approximations for the winding distribution of planar Brownian motion. (English summary) **2004g:60114**
Betz, Volker (*with* Lőrinczi, József) Uniqueness of Gibbs measures relative to Brownian motion. (English and French summaries) **2004g:60115**
— Existence of Gibbs measures relative to Brownian motion. (English summary) **2004m:60174**
Bischoff, Wolfgang (*with* Hashorva, Enkelejd; Hüsler, Jürg; Miller, Frank) Exact asymptotics for boundary crossings of the Brownian bridge with trend with application to the Kolmogorov test. (English summary) **2004i:60115**
Breuer, Lothar A piecewise-deterministic model for Brownian motion. (English summary) **2004m:60175**
Bruss, F. Thomas *see* **Swan, Yvik C.**
Buchmann, F. M. (*with* Petersen, W. P.) Solving Dirichlet problems numerically using the Feynman-Kac representation. (English summary) **2004k:60223**
Buffet, Emmanuel On the time of the maximum of Brownian motion with drift. (English summary) **2004k:60224**
Cabaña, E. M. The Wiener process and the central limit theorem. (Spanish. Spanish summary) **2004e:60138**
Carolan, Chris (*with* Dykstra, Richard) Characterization of the least concave majorant of Brownian motion, conditional on a vertex point, with application to construction. (English summary) **2004h:60123**
Chang, Seung Jun (*with* Choi, Jae Gil; Skoug, David) Integration by parts formulas involving generalized Fourier-Feynman transforms on function space. (English summary) **2004c:60229**
Chernov, Nikolai I. *see* **Lebowitz, Joel Louis et al., 2004d:60212**
Choi, Jae Gil *see* **Chang, Seung Jun et al., 2004c:60229**
Collet, Pierre (*with* Martínez, Servet; San Martin, Jaime) Asymptotic of the heat kernel in general Benedicks domains. (English summary) **2004d:60209**
Csáki, Endre (*with* Csörgő, Miklós; Földes, Antónia; Shi, Zhan) On a class of additive functionals of two-dimensional Brownian motion and random walk. (English summary) **2004c:60230**
— (*with* Hu, Yueyun) On the joint asymptotic behaviours of ranked heights of Brownian excursions. (English summary) **2004b:60198**
Csörgő, Miklós *see* **Csáki, Endre et al., 2004c:60230**
Daudin, Jean-Jacques (*with* Etienne, Marie Pierre; Vallois, Pierre) Asymptotic behavior of the local score of independent and identically distributed random sequences. (English summary) **2004d:60210**
De Meyer, Bernard (*with* Roynette, Bernard; Vallois, Pierre; Yor, Marc) On independent times and positions for Brownian motions. (English summary) **2004f:60172**
Dieker, A. B. (*with* Mandjes, Michel) On spectral simulation of fractional Brownian motion. (English summary) **2004c:60231**
Donati-Martin, Catherine (*with* Matsumoto, Hiroyuki[2]; Yor, Marc) The law of geometric Brownian motion and its integral, revisited; application to conditional moments. **2004k:60225**
Dykstra, Richard *see* **Carolan, Chris, 2004h:60123**
Ēfīmenko, Svītlana V. Times of the first attainment of a level by a process that is the pasting together of two processes of Brownian motion on the line. (Ukrainian. English and Ukrainian summaries)
El Kharroubi, Ahmed (*with* Ben Tahar, Abdelghani; Yaacoubi, Abdelhak) On the stability of the linear Skorohod problem in an orthant. (English summary) **2004c:60232**
El-Rayes, A. B. (*with* Abd El-Moneim, M. A.; Abou Gabal, Hamdy M.) Linear search for a Brownian target motion. (English summary) **2004f:60173**
Erickson, R. V. *see* **Levental, Shlomo, 2004f:60176**
Etienne, Marie Pierre *see* **Daudin, Jean-Jacques et al., 2004d:60210**
Farré, Mercè *see* **Alabert, Aureli et al., 2004j:60175**
Földes, Antónia *see* **Csáki, Endre et al., 2004c:60230**
Gasanenko, Vitalii A. Wiener process in fine domain and perturbed Cauchy problem in the space of sequences. (English summary) **2004k:60226**
Giraud, Christophe On the convex hull of a Brownian excursion with parabolic drift. (English summary) **2004f:60174**
Goldaeva, A. A. Some inequalities for Brownian motion with drift. (Russian) **2004m:60176**
Gong, Fuzhou Exponential integrability for images of Ornstein-Uhlenbeck operators acting on cylinder functions on loop spaces. (English summary) **2004b:60199**
Gordina, Maria Quasi-invariance for the pinned Brownian motion on a Lie group. (English summary) **2004b:60200**
Gradinaru, Mihai (*with* Roynette, Bernard; Vallois, Pierre; Yor, Marc) The laws of Brownian local time integrals. (English summary) **2004f:60175**
Grigorescu, Ilie (*with* Kang, Min) Path collapse for an inhomogeneous random walk. (English summary) **2004i:60116**
Hamana, Yuji Limit theorems connected with Wiener sausages and related topics. (Japanese) **2004e:60139**
Hashorva, Enkelejd *see* **Bischoff, Wolfgang et al., 2004i:60115**
Hu, Yueyun *see* **Csáki, Endre, 2004b:60198**
Hüsler, Jürg *see* **Bischoff, Wolfgang et al., 2004i:60115**
Kang, Min *see* **Grigorescu, Ilie, 2004i:60116**

Khoshnevisan, Davar Intersections of Brownian motions. (English summary) **2004d:60211**
Kim, Seung-hwan *see* **Kim, Tae Sik**
Kim, Tae Sik (*with* Kim, Seung-hwan) Singularity spectra of fractional Brownian motions as a multi-fractal. (English summary)
Lachal, Aimé Bridges of certain Wiener integrals. Prediction properties, relation with polynomial interpolation and differential equations. Application to goodness-of-fit testing. (English summary) **2004e:60140**
Lebowitz, Joel Louis (*with* Sinai, Yakov G.; Chernov, Nikolai I.) Dynamics of a massive piston immersed in an ideal gas. (Russian. Russian summary) **2004d:60212**
Levental, Shlomo On coupling of Brownian bridges. (Russian summary) **2004b:60201**
— (*with* Erickson, R. V.) On almost sure convergence of the quadratic variation of Brownian motion. (English summary) **2004f:60176**
Lifshits, Mikhail A. (*with* Shi, Zhan) The first exit time of Brownian motion from a parabolic domain. (English summary) **2004d:60213**
Lőrinczi, József *see* **Betz, Volker**, **2004g:60115**
Magdon-Ismail, Malik (*with* Atiya, Amir F.; Pratap, Amrit; Abu-Mostafa, Yaser S.) On the maximum drawdown of a Brownian motion. (English summary)
Malric, Marc Densité des zéros des transformés de Lévy itérés d'un mouvement brownien. (English and French summaries) [Density of zeros for iterated Lévy transforms of Brownian motion] **2004a:60133**
Mandjes, Michel *see* **Dieker, A. B.**, **2004c:60231**
Martinez, Servet *see* **Collet, Pierre et al.**, **2004d:60209**
Matsumoto, Hiroyuki[2] (*with* Nguyen, Laurent; Yor, Marc) Subordinators related to the exponential functionals of Brownian bridges and explicit formulae for the semigroups of hyperbolic Brownian motions. (English summary) **2004f:60177**
— (*with* Yor, Marc) On Dufresne's relation between the probability laws of exponential functionals of Brownian motions with different drifts. (English summary) **2004c:60233**
— *see also* **Donati-Martin, Catherine et al.**, **2004k:60225**
Miller, Frank *see* **Bischoff, Wolfgang et al.**, **2004i:60115**
Muzychuk, O. V. On an analysis of the spectral-correlation characteristics of one-dimensional Brownian motion. (Russian. English and Russian summaries) **2004f:60178**
Nguyen, Laurent *see* **Matsumoto, Hiroyuki[2] et al.**, **2004f:60177**
Nikitin, Yakov *see* **Beghin, Luisa et al.**, **2004m:60173**
Orsingher, Enzo *see* **Beghin, Luisa et al.**, **2004m:60173**
Pap, Gyula[1] *see* **Bentkus, V. et al.**, **2004g:60114**
Peccati, Giovanni Explicit formulae for time-space Brownian chaos. (English summary) **2004c:60234**
Peskir, Goran On integral equations arising in the first-passage problem for Brownian motion. (English summary) **2004c:60235**
Petersen, W. P. *see* **Buchmann, F. M.**, **2004k:60223**
Pratap, Amrit *see* **Magdon-Ismail, Malik et al.**
Privault, Nicolas A relation between the Gross Laplacian and time changes on Brownian motion. (English summary) **2004i:60117**
Roy, Rahul *see* **Alabert, Aureli et al.**, **2004j:60175**
Roynette, Bernard *see* **De Meyer, Bernard et al.**, **2004f:60172** *and* **Gradinaru, Mihai et al.**, **2004f:60175**
Safonov, AlekseĭVladimirovich *see* **Agudov, Nikolay V.**, **2004b:60196**
Saloff-Coste, Laurent *see* **Bendikov, A. D.**, **2004f:60171** *and* **2004k:60222**
San Martín, Jaime *see* **Collet, Pierre et al.**, **2004d:60209**
Schröder, Michael On the integral of geometric Brownian motion. (English summary) **2004b:60202**
Schuller, Frederic P. (*with* Vogt, Pascal) Product structure of heat phase space and branching Brownian motion. (English summary) **2004m:60177**
Shi, Zhan *see* **Csáki, Endre et al.**, **2004c:60230** *and* **Lifshits, Mikhail A.**, **2004d:60213**
Sidorova, N. A. Brownian motion on an embedded manifold as the limit of Brownian motions with reflection in its tubular neighborhoods. (Russian) **2004h:60124**
Sinai, Yakov G. *see* **Lebowitz, Joel Louis et al.**, **2004d:60212**
Skoug, David *see* **Chang, Seung Jun et al.**, **2004c:60229**
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Orsingher, Enzo *see* **Kolesnik, A. D., 2004g:60109**
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Pafumi, Gérard *see* **Gerber, Hans U., 2004e:62187**
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Reimann, Peter *see* **Eichhorn, Ralf et al.**
Ren, Yan-Xia The structure of nonlinear elliptic equations on unbounded domains in dimensions 1 and 2—a probabilistic approach. (English summary) **2004b:35115**
Révész, Pál *see* **Khoshnevisan, Davar et al., 2004m:60163**
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Rosen, Jay *see* **Dembo, Amir et al., 2004g:58047**
Rothenberg, Thomas J. *see* **Doornik, Jurgen A. et al., 2004k:62197**
Ruiz-Medina, M. D. *see* **Fernández-Pascual, R. et al., 2004g:62150**
Rusakov, O. V. *see* **Liber, A. V., 2004m:60078**
Saley, Hadiza Moussa *see* **De Meyer, Bernard, 2004b:91024**
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Schramm, Oded *see* **Lawler, Gregory et al., 2004g:60130** *and* **Benjamini, Itai et al., 2004k:30096**
Schuss, Zeev *see* **Nadler, B. et al., 2004h:60128**
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Shi, Zhan *see* **Csáki, Endre et al., 2004g:60044**; **Lifshits, Mikhail A., 2004k:60214**; **2004m:60079** *and* **Khoshnevisan, Davar et al., 2004m:60163**
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60J75 Jump processes

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60J80 Branching processes (Galton-Watson, birth-and-death, etc.)

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Chao, Xiuli *see* **Zheng, Yuxi et al., 2004k:60236**
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Imomov, A. On a form of degeneracy condition for branching processes. (Russian. English and Uzbek summaries) **2004c:60239**
Isham, Valerie S. *see* **Cornell, Stephen J.**
Jacob, C. *see* **Lalam, N. et al., 2004m:60184**
Jagers, Peter *see* **Lalam, N. et al., 2004m:60184** *and* **Lu, Zhunwei, 2004m:60185**
Jakeman, E. *see* **Matthews, J. O. et al.**
Ji, Xiaomei *see* **Zheng, Yuxi et al., 2004k:60236**
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Korosteleva, Olga A. *see* **Korostelev, A. P., 2004e:60142**
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Kou, S. G. *see* **Kou, S. C., 2004f:60181**
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Lebedev, Alekseĭ Viktorovich Generalized maximal branching processes on bounded sets. (Russian. Russian summary) **2004h:60131**
Li, Ji Feng *see* **Bi, Qiu Xiang, 2004h:60130**
Li, Zeng Hu Skew convolution semigroups and related immigration processes. (Russian. Russian summary) **2004h:60132**
Lopes Garcia, Nancy *see* **Palacios, José Luis, 2004j:60179**
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Möhle, Martin *see* **Müller, Johannes Heinrich Otto Gustav, 2004j:60178**
Mokkadem, Abdelkader *see* **Marckert, Jean-François, 2004f:60182** *and* **2004g:60120**
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Mota, Manuel *see* **Molina Fernández, Manuel et al., 2004a:60139** *and* **2004f:60184**
Müller, Johannes Heinrich Otto Gustav (*with* Möhle, Martin) Family trees of continuous-time birth-and-death processes. (English summary) **2004j:60178**
Muttlak, Hassen A. *see* **Rakhimov, I. U., 2004d:60221**
Nagaev, S. V. (*with* Vakhtel′, V. I.) Limit theorems for probabilities of large deviations of a Galton-Watson process. (Russian. Russian summary) **2004d:60220**
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Peres, Yuval *see* **Mossel, Elchanan, 2004e:60143**
Perkins, Edwin A. Super-Brownian motion and critical spatial stochastic systems. (English summary)
del Puerto, Inés *see* **Gonzalez-Velasco, Miguel et al., 2004f:60180** *and* **2004k:60232**
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Ramos, Alfonso *see* **Molina Fernández, Manuel et al., 2004a:60139** *and* **2004f:60184**
Reder, Christine Transient behaviour of a Galton-Watson process with a large number of types. (English summary) **2004k:60233**
Roynette, Bernard *see* **Fournier, Nicolas, 2004i:60122**
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Sanz, Luis (*with* Blasco, Ángel; Bravo de la Parra, Rafael) Approximate reduction of multi-type Galton-Watson processes with two time scales. (English summary) **2004c:60240**
Schweinsberg, Jason Coalescent processes obtained from supercritical Galton-Watson processes. (English summary) **2004d:60222**
Shaked, Moshe (*with* Spizzichino, Fabio; Suter, Florentina) Nonhomogeneous birth processes and I_∞-spherical densities, with applications in reliability theory. (English summary) **2004b:60209**
Shaw, Chad A. *see* **Olofsson, Peter**
Shete, Sanjay (*with* Sriram, T. N.) A note on estimation in multitype supercritical branching processes with immigration. (English summary) **2004j:60181**
Shipileva, A. V. Estimates of the distribution of the extinction time of a Markov branching process. (Russian. Russian summary) **2004c:60241**
Sohraby, Khosrow *see* **Choi, Sung Ho et al., 2004b:60205**
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Sriram, T. N. *see* **Shete, Sanjay, 2004j:60181**
Stacey, Alan Branching random walks on quasi-transitive graphs. (English summary) **2004d:60223**
Stannat, Wilhelm Spectral properties for a class of continuous state branching processes with immigration. (English summary) **2004d:60224**
Stoimenova, V. (*with* Atanasov, Dimitar; Yanev, Nikolaï Mihaylov) Simulation and robust modifications of estimates in branching processes. (English summary)
Suter, Florentina *see* **Shaked, Moshe et al., 2004b:60209**
Swift, Randall J. *see* **Switkes, Jennifer M. et al.**
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Taylor, Peter G. *see* **Latouche, Guy, 2004b:60206**
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Vakhtel′, V. I. *see* **Nagaev, S. V., 2004d:60220**
Vatutin, Vladimir Reduced branching processes in a random environment: the critical case. (Russian. Russian summary) **2004c:60242**
— *see also* **Wakolbinger, Anton et al., 2004i:60125** *and* **Topchii, Valentin, 2004m:60186**
Vidyashankar, A. N. *see* **Ney, Peter E., 2004b:60207**
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Wang, Qiao *see* **Cohn, Harry, 2004a:60135**
Williams, D. R. E. *see* **Etheridge, A. M., 2004i:60121**
Wirkus, Stephen *see* **Switkes, Jennifer M. et al.**
Wu, Qun Ying (*with* Zhang, Han Jun) An extended birth-and-death process. (Chinese. English and Chinese summaries) **2004k:60234**
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Yanev, Nikolaï Mihaylov *see* **Molina Fernández, Manuel, 2004f:60183**; **Yanev, George P. et al., 2004k:60235** *and* **Stoimenova, V. et al.**
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Caliebe, Amke Symmetric fixed points of a smoothing transformation. (English summary) **2004f:60036**
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Dhersin, Jean-Stéphane *see* **Delmas, Jean-François, 2004f:60098**
Dobson, Scott *see* **Bhattacharya, Rabi N. et al., 2004k:35294**
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Hughes, Barry D. *see* **Reed, William J.**
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Jørgensen, Bent (*with* Vinogradov, V. V.) Convergence to Tweedie models and related topics. (English summary) **2004f:60035**
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Kelbert, Mark (*with* Sukhov, Yu. M.) Tree-indexed processes: a high level crossing analysis. (English summary) **2004k:60237**
Kersting, G. *see* **Geiger, Jochen, 2004c:60273**
Klebaner, F. C. *see* **Jagers, Peter**
Konsowa, Mokhtar H. A note on the conductivity of random trees. (English summary) **2004h:60028**
— (*with* Oraby, Tamer F.) Dimensions of random trees. (English summary) **2004a:60022**
Korshunov, Dmitrii *see* **Asmussen, Søren et al., 2004f:60101**
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Lambadaris, I. *see* **Grishechkin, S. et al., 2004d:60238**
Lange, Kenneth ★ Applied probability. **2004a:60001**
Latouche, Guy *see* **Bini, Dario A. et al., 2004e:15017**
Léandre, Rémi Super Brownian motion on a loop group. (English summary) **2004h:58055**
Li, Zeng Hu *see* **Dawson, Donald A. et al., 2004k:60175**
Liu, Kai[2] *see* **Chen, Anyue et al., 2004k:60204**
Löcherbach, E. *see* **Höpfner, R. et al., 2004k:62107**
Luo, Zhi Xue *see* **He, Ze Rong**
Ma, Jian-guo *see* **Yan, Guo-jun, 2004a:60098**
Malyshev, Vadim *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Marchette, David J. *see* **Wierman, John C., 2004m:60188**
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Michor, Franziska *see* **Iwasa, Yoh et al.**
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Mörters, Peter *see* **Dawson, Donald A. et al., 2004d:60258**
Mota, Manuel *see* **Molina Fernández, Manuel et al., 2004h:60150**
Myers, Eric *see* **Bruist, Michael F.**
Mytnik, Leonid *see* **Fleischmann, Klaus, 2004f:60204***and* **Dawson, Donald A. et al., 2004m:60219**
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Nishimura, Shoichi A $MAP/G/1$ queue with an underlying birth-death process. (English summary) **2004g:60126**
Nowak, Martin A. *see* **Iwasa, Yoh et al.**
Oraby, Tamer F. *see* **Konsowa, Mokhtar H., 2004a:60022**
Orum, Chris *see* **Bhattacharya, Rabi N. et al., 2004k:35294**
Ossiander, Mina *see* **Bhattacharya, Rabi N. et al., 2004k:35294**
Parthasarathy, P. R. (*with* Vijayashree, K. V.) Fluid queues driven by birth and death processes with quadratic rates. (English summary) **2004j:60189**
Peres, Yuval *see* **Dembo, Amir et al., 2004k:60269**
Perkins, Edwin A. *see* **Dawson, Donald A. et al., 2004m:60219**
Petrov, A. I. *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Pirogov, S. A. *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Pollak, Edward On an extension of the theory of coalescents to populations with two sexes. (English summary)
Pollett, Philip K. *see* **Clancy, Damian, 2004d:60198**
Ramos, Alfonso *see* **Molina Fernández, Manuel et al., 2004h:60150**
Ratanov, N. E. Reaction-advection random motions in inhomogeneous media. (English summary) **2004m:35167**
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Rennolls, Keith *see* **Chen, Anyue et al., 2004k:60204**
Rösler, Uwe *see* **Caliebe, Amke, 2004d:60039**
(Ruget, Claudine) *see* **Situational mathematics, 2004h:00009**
Rybko, A. N. *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Spencer, Joel H. *see* **Dumitriu, Ioana et al., 2004d:60112**
Stannat, Wilhelm On transition semigroups of (A, Ψ)-superprocesses with immigration. (English summary) **2004f:60156**
Steel, Michael Anthony *see* **Bashford, J. D. et al.**
Sturm, Anja On convergence of population processes in random environments to the stochastic heat equation with colored noise. (English summary) **2004e:60164**
Sukhov, Yu. M. *see* **Kelbert, Mark, 2004k:60237**
Swart, Jan M. *see* **Fleischmann, Klaus, 2004h:60127**
Tadić, Bosiljka (*with* Thurner, Stefan) Information super-diffusion on structured networks. (English summary)
Tavaré, Simon *see* **Navidi, William C. et al., (2004d:62008)**
Thomann, Enrique *see* **Bhattacharya, Rabi N. et al., 2004k:35294**
Thurner, Stefan *see* **Tadić, Bosiljka**
Tian, Jun Zhong (*with* Hu, Di He) Properties of the just hitting time interval sequence for a birth-and-death process in a random environment. (Chinese. English and Chinese summaries) **2004d:60264**
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Vijayashree, K. V. *see* **Parthasarathy, P. R., 2004j:60189**
Vinogradov, V. V. *see* **Jørgensen, Bent, 2004f:60035**
Wang, Hao[5] State classification for a class of interacting superprocesses with location dependent branching. (English summary) **2004d:60255**
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60Kxx Special processes

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"Nonparametric estimation of renewal processes from count data" Correction: "Nonparametric estimation of renewal processes from count data" [Canad. J. Statist. **31** (2003), no. 2, 191–223] by Y. Guédon and C. Cocozza-Thivent.

60K10 Applications (reliability, demand theory, etc.)

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60K25 Queueing theory [see also 68M20, 90B22]

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Feng, En Min *see* **Shen, Yu Bo[2]**
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Hong, Zhen Jie *see* **Huang, Yue Fang et al.**
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Jeon, Jongwoo *see* **Lee, Ho Woo et al., 2004h:60142**
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Joglekar, Nitindra *see* **Peköz, Erol A., 2004j:60190**
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Ke, Jau-Chuan The analysis of a general input queue with N policy and exponential vacations. (English summary) **2004i:60138**
Kempa, Wojciech *see* **Bratiichuk, N. S., 2004d:60234**
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Kuhn, Heinrich[2] *see* **Krieg, Georg N.**
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Kurtulush, M. *see* **Anisimov, Vladimir V., 2004b:60214**
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Lakshminarayana, J. *see* **Srinivasa Rao, P. et al.**
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Loss, Michael *see* **Carlen, Eric A. et al.**, **2004j:60186**
Lumley, R. R. *see* **Glazebrook, K. D. et al.**, **2004i:60136**
Machihara, Fumiaki (*with* Aono, Yuichi) A regularly preemptive model and its approximations. (English summary) **2004i:60140**
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Mazumdar, Ravi R. *see* **Likhanov, N. B. et al.**, **2004m:60209**
van der Mei, R. D. *see* **Olsen, Tava Lennon**, **2004a:60153**
Melamed, Benjamin *see* **Jagerman, David L. et al.**
Michailidis, George *see* **Bambos, Nicholas**, **2004m:60198**
Michna, Zbigniew α-stable limits for multiple channel queues in heavy traffic. (English summary) **2004e:60153**
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Mitra, Debasis *see* **Mandjes, Michel et al.**, **2004e:60151**
Mitzenmacher, Michael (*with* Vöcking, Berthold) Selecting the shortest of two queues, improved. (English summary) **2004f:60196**
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Mogulskii, A. A. *see* **Avram, Florin**
Momčilović, Petar *see* **Jelenković, Predrag**, **2004d:60240** *and* **2004g:60124**
Moon, Jong Min *see* **Lee, Ho Woo et al.**, **2004m:60206**
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Morvai, Gusztáv *see* **Györfi, László**, **2004c:60253**
Murty, S. M. A. *see* **Srinivasa Rao, Kraleti et al.**
Mykhalevych, K. V. *see* **Kovalenko, I. N. et al.**, **2004k:60255**
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Nassar, Manal M. *see* **Shawky, A. I.**
Nishimura, Shoichi A $MAP/G/1$ queue with an underlying birth-death process. (English summary) **2004g:60126**
Nobile, A. G. *see* **Di Crescenzo, Antonio et al.**, **2004d:60236**
Nyberg, H. *see* **Guérin, Charles-Antoine et al.**, **2004e:60147**
O'Connell, Neil *see* **Ganesh, Ayalvadi et al.**, **2004c:60251** *and* **Draief, Moez et al.**, **2004m:60202**
Olsen, Tava Lennon (*with* van der Mei, R. D.) Polling systems with periodic server routeing in heavy traffic: distribution of the delay. (English summary) **2004a:60153**
Orlov, A. B. *see* **Glukhova, E. V.**, **2004c:60252**
Ozturk, Ozcan *see* **Likhanov, N. B. et al.**, **2004m:60209**
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Pal, S. *see* **Mishra, Sant Sharan**
Palmowski, Zbigniew (*with* Schlegel, Sabine; Boxma, Onno J.) A tandem queue with a gate mechanism. (English summary) **2004a:60154**
Park, Jong Geun *see* **Lee, Ho Woo et al.**, **2004m:60206**
Park, No Ik *see* **Lee, Ho Woo et al.**, **2004h:60142** *and* **2004m:60207**
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— *see also* **Lenin, R. B.**, **2004i:60139**
Pavai Madheswari, S. *see* **Kumar, B. Krishna**, **2004c:60255** *and* **2004m:60204**
Peköz, Erol A. (*with* Joglekar, Nitindra) Poisson traffic flow in a general feedback queue. (English summary) **2004j:60190**
Pérez Villalón, G. *see* **Marcellán, Francisco**, **2004e:60152**
Perrin, Olivier *see* **Guérin, Charles-Antoine et al.**, **2004e:60147**
Perry, David (*with* Stadje, Wolfgang; Zacks, Shelemyahu) Boundary crossing for the difference of two ordinary or compound Poisson processes. (English summary) **2004j:60191**
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Pinotsi, Dimitra (*with* Zazanis, Michael A.) Stability conditions for gated $M/G/\infty$ queues. (English summary) **2004j:60192**
del Pozo, Mónica *see* **Artalejo, J. R.**, **2004b:60215**
Prabhakar, Balaji *see* **Ganesh, Ayalvadi et al.**, **2004c:60251** *and* **Mairesse, Jean**, **2004i:60141**
Prabharkar, Balaji The attractiveness of the fixed points of a $\cdot/GI/1$ queue. (English summary) **2004i:60144**
Proutière, A. *see* **Bonald, T.**, **2004c:60249**
Puha, Amber L. (*with* Williams, Ruth J.) Invariant states and rates of convergence for a critical fluid model of a processor sharing queue. (English summary) **2004m:60211**
Qin, Zhong *see* **Zhu, Yi Jun et al.**
Ramanan, Kavita (*with* Reiman, Martin I.) Fluid and heavy traffic diffusion limits for a generalized processor sharing model. (English summary) **2004b:60220**
Ramaswami, V. *see* **Ahn, Soohan**, **2004m:60196**
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Rao, C. S. S. R. L. Hanumantha *see* **Srinivasa Rao, Kraleti et al.**
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Resing, J. A. C. (*with* Rietman, Ronald) The $M/M/1$ queue with gated random order of service. (English summary) **2004m:60212**
— *see also* **Adan, I. J. B. F. et al.**, **2004b:60213**
Resnick, Sidney I. (*with* Samorodnitsky, Gennady) Limits of on/off hierarchical product models for data transmission. (English summary) **2004j:60193**
— *see also* **Guérin, Charles-Antoine et al.**, **2004e:60147**
Ricciardi, Luigi M. *see* **Di Crescenzo, Antonio et al.**, **2004d:60236**
Ridder, Ad *see* **Gajrat, Alexander et al.**, **2004k:60250**
Rietman, Ronald *see* **Resing, J. A. C.**, **2004m:60212**
Rikli, Nasser Eddine (*with* Tadj, Lotfi) Effect of the server capacity distribution on the performance of a quorum queuing system. (English summary)
Robert, Philippe *see* **Fricker, Christine et al.**, **2004a:60144**
Rootzén, H. *see* **Guérin, Charles-Antoine et al.**, **2004e:60147**

Rykov, Vladimir V. (*with* Efrosinin, D.) Optimal control of queueing systems with heterogeneous servers. (English summary)
Sakurai, Taka Approximating $M/G/1$ waiting time tail probabilities. (English summary) **2004m:60213**
Samorodnitsky, Gennady *see* **Resnick, Sidney I., 2004j:60193**
Sanz, G. *see* **Andjel, Enrique Daniel et al., (2004h:00021)**
Scheinhardt, Werner *see* **Mandjes, Michel et al., 2004e:60151**
Schlegel, Sabine *see* **Palmowski, Zbigniew et al., 2004a:60154** *and* **Boxma, Onno J. et al., 2004f:60189**
Scott, Meckinley *see* **Gray, William J. et al.**
Semenova, Olga *see* **Dudin, Aleksandr, 2004m:60203**
Sen, Kanwar (*with* Agarwal, Manju Lata) Busy period analysis of $GI^bIM/1/N$ queues—lattice path approach. (English summary) **2004b:60221**
Shakkottai, S. (*with* Stolyar, A. L.) Scheduling for multiple flows sharing a time-varying channel: the exponential rule. (English summary) **2004d:60242**
Shanbhag, D. N. *see* **Manoharan, M. et al., 2004d:60241**
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Shevlyakov, G. L. *see* **Avrachenkov, Konstantin E. et al., 2004g:60122**
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Shioda, Shigeo Departure process of the MAP/SM/1 queue. (English summary) **2004b:60222**
Shortle, John (*with* Gross, Donald; Fischer, Martin J.; Masi, Denise M. B.) Numerical methods for analyzing queues with heavy-tailed distributions. (English summary) **2004d:60243**
Shreve, Steven E. *see* **Kruk, Łukasz et al., 2004b:60217**
Shukla, A. K. *see* **Rani, Kamana et al.**
Shwartz, Adam *see* **Atar, Rami et al., 2004h:60137**
da Silva Soares, Ana (*with* Latouche, Guy) Further results on the similarity between fluid queues and QBDs. (English summary) **2004c:60259**
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Sohraby, Khosrow *see* **Akar, Nail**
Sottinen, T. *see* **Kozachenko, Yurii V. et al., 2004a:60149**
Squillante, Mark S. *see* **Xia, Cathy H. et al., 2004k:60261**
Srinivasan, B. *see* **Kalyanaraman, R., 2004j:60188**
Srinivasan, Rengarajan (*with* Talim, Jérôme; Wang, Jin Ting) Performance analysis of a call center with interactive voice response units. (English summary)
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Srivastava, P. N. *see* **Rani, Kamana et al.**
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— *see also* **Perry, David et al., 2004i:60143** *and* **2004j:60191**
Stărică, C. *see* **Guérin, Charles-Antoine et al., 2004e:60147**
Stolyar, A. L. *see* **Shakkottai, S., 2004d:60242**
Suda, Tatsuya *see* **Ishizaki, Fumio et al., 2004k:60252**
Szekli, Ryszard *see* **Daduna, Hans, 2004f:60191** *and* **2004i:60135**
Tadj, Chakib *see* **Tadj, Lotfi, 2004m:60214**
Tadj, Lotfi A quorum queueing system under D-policy. (English summary) **2004f:60197**
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— Explicit solution of a quorum queueing system. (English summary) **2004b:60223**
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Taiyyan, Firas *see* **Madan, Kailash C. et al.**
Takine, Tetsuya *see* **Inoue, Dai, 2004d:60239**; **Masuyama, Hiroyuki, 2004h:60143** *and* **Boxma, Onno J., 2004m:60199**
Talim, Jérôme *see* **Srinivasan, Rengarajan et al.**
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Tibi, Danielle *see* **Fricker, Christine et al., 2004a:60144**
Tikhonenko, O. M. Analysis of a processor-sharing system for servicing nonhomogeneous customers. (Russian. English and Russian summaries) **2004h:60144**
— *see also* **Klimovich, Konstantin, 2004a:60148**
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— (*with* Blondia, C.) The waiting time distribution of a type k customer in a discrete-time MMAP[K]/PH[K]/c ($c = 1, 2$) queue using QBDs. (English summary)
Van Mieghem, Piet *see* **van der Hofstad, Remco et al., 2004b:60216**
Vasilik, Oksana I. *see* **Kozachenko, Yurii V. et al., 2004a:60149**
Vijayakumar, Arunachalam *see* **Kumar, B. Krishna et al., 2004a:60150** *and* **2004b:60218**
Vijayashree, K. V. *see* **Parthasarathy, P. R., 2004b:60219** *and* **2004j:60189**
Vil′chevskiĭ, N. O. *see* **Avrachenkov, Konstantin E. et al., 2004g:60122**
Vöcking, Berthold *see* **Mitzenmacher, Michael, 2004f:60196**
van der Wal, Jan (*with* Yechiali, Uri) Dynamic visit-order rules for batch-service polling. (English summary) **2004c:60261**
Wang, Chia-Li *see* **Wolff, Ronald W., 2004d:60244**
Wang, Jin Ting *see* **Srinivasan, Rengarajan et al.**
Wang, P. Patrick *see* **Gray, William J. et al.**
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— (*with* Li, Xiao Hua) Explicit criteria for several types of ergodicity for the length of a kind of $M/PH/2$ queue. (Chinese. English and Chinese summaries)
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— *see also* **Teh, Yih-Choung, 2004j:60194**
Wee, In-Suk *see* **Choi, Bong Dae et al., 2004m:60200**
Wesolowsky, George O. *see* **Berman, Oded et al., 2004d:60232**
Williams, Ruth J. *see* **Bramson, Maury D., 2004i:60133** *and* **Puha, Amber L., 2004m:60211**
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Wolff, Ronald W. (*with* Wang, Chia-Li) Idle period approximations and bounds for the $GI/G/1$ queue. (English summary) **2004d:60244**
Xia, Cathy H. (*with* Liu, Zhen[1]; Squillante, Mark S.; Zhang, Li[3]) Lower bounds for $LRD/GI/1$ queues with subexponential service times. (English summary) **2004k:60261**
Yan, Qing Qiang *see* **Huang, Yue Fang et al.**
Yechiali, Uri *see* **van der Wal, Jan, 2004c:60261** *and* **Boxma, Onno J. et al., 2004f:60189**
Yeung, Shu-Ngai *see* **Kruk, Łukasz et al., 2004b:60217**
Yin, Gang George (*with* Zhang, Han Qin) Heavy traffic limit theorems in fluid buffer models. (English summary) **2004j:60195**
Yin, Xiao Ling[1] (*with* Deng, Yong Lu; Liu, Guo Zhu) The $M^{[X]}/G/1$ queueing system with second multi-optional services. (Chinese. English and Chinese summaries) **2004j:60196**
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Yoon, Bong K. (*with* Chae, Kyung Chul) An invariance in the priority queue with generalized server vacations and structured batch arrivals. (English summary) **2004e:60155**
Yuan, Quan Sheng The transient theory of the $GI/G/1$ queueing system with set-up time. (Chinese. English and Chinese summaries)
Yuan, Xueming (*with* Li, Wei[15]) Availability analysis of the queueing system $GI/PH/1$ with server breakdowns. (English summary) **2004d:60245**
Zacks, Shelemyahu *see* **Perry, David et al., 2004i:60143** *and* **2004j:60191**
Zakusilo, Oleg K. Paradoxes of Shrage discipline. (English summary) **2004j:60197**
Zazanis, Michael A. *see* **Pinotsi, Dimitra, 2004j:60192**
Zeĭfman, A. I. *see* **Andreev, D. B. et al., 2004f:60187**
Zeng, Guoping Two common properties of the Erlang-B function, Erlang-C function, and Engset blocking function. (English summary) **2004f:60199**
Zhang, Han Qin *see* **Yin, Gang George, 2004j:60195**
Zhang, Li[3] *see* **Xia, Cathy H. et al., 2004k:60261**
Zhang, Zhe George (*with* Tian, Naishuo) Analysis of queueing systems with synchronous single vacation for some servers. (English summary) **2004i:60145**
— *see also* **Tian, Naishuo, 2004f:60198**
Zhao, Guo Xi (*with* Zhu, Yi Jun; Zhuang, Bin) Impatient cells' queueing with priority. (Chinese. English and Chinese summaries)
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Zhuang, Bin *see* **Zhao, Guo Xi et al.** *and* **Zhu, Yi Jun et al.**
Zwart, Bert *see* **Borst, S. C., 2004i:60132**

Items with secondary classifications in 60K25

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Abu-Dayyeh, Walid A. *see* **Madan, Kailash C. et al., 2004f:90025** *and* **2004g:90026**
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Al-Jararha, Jehad (*with* Madan, Kailash C.) An $M/G/1$ queue with second optional service with general service time distribution. (English summary) **2004d:90011**
Al-Saleh, Mohammad Fraiwan *see* **Madan, Kailash C. et al.**, 2004f:90025
Altiok, Tayfur *see* **Jagerman, David L.**, 2004k:60262
Altman, Eitan *see* **Dube, Parijat**, 2004f:60200
Anisimov, Vladimir V. Averaging in Markov models with fast Markov switches and applications to queueing models. (English summary) **2004a:60128**
Ansell, P. S. *see* **Glazebrook, K. D. et al.**, 2004k:90051
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Bae, Jongho (*with* Kim, Jongwoo; Lee, Eui Yong) An optimal service rate in a Poisson arrival queue with two-stage service policy. (English summary) **2004j:90027**
Baghel, K. P. S. *see* **Jain, Madhu et al.**, 2004k:90023
Bansal, Nikhil Analysis of the $M/G/1$ processor-sharing queue with bulk arrivals. (English summary) **2004e:90019**
— *see also* **Wierman, Adam et al.**, 2004i:90021
Basawa, Ishwar V. *see* **Bhat, U. Narayan**, (2004a:62006)
Baum, Dieter *see* **Tsitsiashvili, G. Sh. et al.**, 2004f:60211
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Bhat, U. Narayan (*with* Basawa, Ishwar V.) Maximum likelihood estimation in queueing systems. (English summary) (*see* **2004a:62006**)
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Chiang, W. C. *see* **Chu, Yen Ping et al.**, 2004c:90011
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Dasgupta, Amites[2] (*with* Ramasubramanian, S.) Transition density of a reflected symmetric stable Lévy process in an orthant. (English summary) **2004h:60115**
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Dębicki, Krzysztof (*with* Mandjes, Michel) Exact overflow asymptotics for queues with many Gaussian inputs. (English summary) **2004h:60058**
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Demchenko, S. S. *see* **Knopov, Pavel S. et al.**, 2004j:90029
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Dube, Parijat (*with* Altman, Eitan) Queueing and fluid analysis of partial message discarding policy. (English summary) **2004f:60200**
Dudin, Aleksandr *see* **Chakravarthy, Srinivas R.**, 2004a:90017
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Duffy, Ken (*with* Lewis, John T.; Sullivan, Wayne G.) Logarithmic asymptotics for the supremum of a stochastic process. (English summary) **2004b:60076**
Dunn, R. T. *see* **Glazebrook, K. D. et al.**, 2004k:90051
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Fleischer, Lisa (*with* Sethuraman, Jay) Approximately optimal control of fluid networks. (English summary) (*see* **2004a:68002**)
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Foss, S. G. (*with* Zachary, S.) Asymptotics for the maximum of a modulated random walk with heavy-tailed increments. (English summary) **2004d:60113**
Frigessi di Rattalma, Arnoldo *see* **Heggland, Knut**
Frostig, Esther Upper bounds on the expected time to ruin and on the expected recovery time. (English summary) **2004m:91134**
Gamarnik, David Stability of adaptive and nonadaptive packet routing policies in adversarial queueing networks. (English summary) **2004b:68019**
Gharaibeh, Mohammad *see* **Madan, Kailash C. et al.**, 2004g:90026
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Gonzalez, Antonio *see* **Bladt, Mogens et al.**
Grassmann, Winfried K. Finding equilibrium probabilities of QBD processes by spectral methods when eigenvalues vanish. (English summary)
Groote, Jan Friso *see* **Borst, S. C. et al.**, 2004f:90062
Guillemin, Fabrice (*with* Robert, Philippe; Zwart, Bert) AIMD algorithms and exponential functionals. (English summary) **2004m:60216**
Gupta, U. C. *see* **Chaudhry, M. L.**, 2004a:90018
Haksöz, Çağri (*with* Seshadri, Sridhar) Monotone forecasts. (English summary)
Harchol-Balter, Mor *see* **Wierman, Adam et al.**, 2004i:90021
Harrison, J. Michael Stochastic networks and activity analysis. (English summary) **2004e:90010**
Hasenbein, John J. *see* **Dai, Jian Gang et al.**, 2004m:60195
Hassin, Refael (*with* Haviv, Moshe) ★ To queue or not to queue: equilibrium behavior in queueing systems. **2004j:60001**
Haviv, Moshe *see* **Hassin, Refael**, 2004j:60001
Hayya, Jack *see* **Li, Zhaolin et al.**, 2004j:90013
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Heggland, Knut (*with* Frigessi di Rattalma, Arnoldo) Estimating functions in indirect inference. (English summary)
Helbing, Dirk A section-based queueing-theoretical traffic model for congestion and travel time analysis in networks. (English summary) **2004k:90019**
Hirayama, Tetsuji Mean sojourn times in multiclass feedback queues with gated disciplines. (English summary) **2004f:90023**
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Hu, Shou Song *see* **Li, Yi Min et al.**
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Hwang, Gang Uk *see* **Choi, Bong Dae et al.**, 2004g:90021
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Jennings, Otis B. *see* **Dai, Jian Gang**, 2004a:90013
Jeon, Jongwoo *see* **Lee, Ho Woo et al.**, 2004h:90011
Jhang, Jhy-Ping A generalized age replacement policy with random delivery time and

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Kaj, Ingemar ★ Stochastic modeling in broadband communications systems. **2004b:60001**
Kalyanaraman, R. *see* **Srinivasan, Lakshmi et al.**
Kang, H. S. (*with* Kang, K.) Neurocybernetic self regulation and envelop entropy in shared queuing chains. (English summary) **2004h:90087**
Kang, K. *see* **Kang, H. S., 2004h:90087**
Katayama, Tsuyoshi (*with* Kobayashi, Kaori) Sojourn time analysis of a two-phase queueing system with exhaustive batch-service and its vacation model. (English summary) **2004k:90024**
Katrakhov, V. V. *see* **Golovko, N. I. et al., 2004e:90021**
Ke, Jau-Chuan The operating characteristic analysis on a general input queue with N policy and a startup time. (English summary) **2004b:90024**
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Kim, Bara *see* **Choi, Bong Dae et al., 2004g:90021**
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Kim, Yong J. (*with* Mannino, Michael V.) Optimal incentive-compatible pricing for $M/G/1$ queues. (English summary) **2004h:90010**
Klimovich, Konstantin *see* **Tikhonenko, O. M.**
Knopov, Pavel S. (*with* Derieva, Elena N.; Demchenko, S. S.) On inventory control models with a convex cost function. (Russian. English and Ukrainian summaries) **2004j:90029**
Kobayashi, Kaori *see* **Katayama, Tsuyoshi, 2004k:90024**
Koliev, N. V. *see* **Tsitsiashvili, G. Sh. et al., 2004f:60211**
Koole, Ger *see* **Bhulai, Sandjai, 2004g:90020**
Krass, Dmitry *see* **Berman, Oded et al., 2004e:60156**
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Krivulin, N. K. Evaluation of the mean cycle time in fork-join queueing networks. (English summary) **2004g:90024**
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de La Fortelle, Arnaud *see* **Delcoigne, Franck, 2004m:60049**
Lakatos, Béla G. *see* **Orbán-Mihálykó, Éva, 2004m:90008**
Latouche, Guy (*with* Taylor, Peter G.) Drift conditions for matrix-analytic models. (English summary) **2004b:60206**
Lauritzen, Steffen L. *see* **Bladt, Mogens et al.**
Le Boudec, Jean-Yves (*with* Thiran, Patrick) ★ Network calculus. (English summary) **2004j:90030**
Lee, Chyan-Lin *see* **Chu, Yen Ping et al., 2004c:90011**
Lee, Eui Yong *see* **Bae, Jongho et al., 2004j:90027**
Lee, Ho Woo (*with* Park, No Ik; Jeon, Jongwoo) Queue length analysis of batch arrival queues under bilevel threshold control with early set-up. (English summary) **2004h:90011**
Lee, Jiyeon Asymptotics of overflow probabilities in Jackson networks. (English summary) **2004k:90014**
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Liu, Guoxin *see* **Hou, Zhen Ting et al., 2004f:60186**
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Liu, Yong[4] *see* **Paschalidis, Ioannis Ch. et al., 2004m:90009**
Liu, Zai Ming *see* **Hou, Zhen Ting et al., 2004f:60186**
Liu, Zhaohui *see* **Cheng, T. C. Edwin, 2004h:68152**
Luczak, Malwina J. (*with* McDiarmid, Colin; Upfal, Eli) On-line routing of random calls in networks. (English summary) **2004a:90010**
Lumley, R. R. *see* **Glazebrook, K. D. et al., 2004k:90051**
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Mannino, Michael V. *see* **Kim, Yong J., 2004h:90010**
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Mauw, Sjouke *see* **Borst, S. C. et al., 2004f:90062**
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Missbauer, Hubert Optimal lower bounds on the contribution margin in the case of stochastic order arrival. (English summary) **2004i:90029**
Mitra, Debasis *see* **Morrison, John A., 2004k:60264**
Mohan, N. R. *see* **Bhattacharjee, Manish C. et al., 2004e:62024**
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Nakatsuka, Toshinao Regenerative cycle method in $M/G/1$ with many vacation rules. (English summary) **2004k:90026**
Núñez Queija, R. *see* **Borst, S. C. et al., 2004e:90020**
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Orbán-Mihálykó, Éva (*with* Lakatos, Béla G.) On the advanced integral and differential equations of the sizing procedure of storage devices. (English summary) **2004m:90008**
Örmeci, Lerzan *see* **Resing, J. A. C., 2004e:90026**
Osipova, M. A. *see* **Tsitsiashvili, G. Sh. et al., 2004f:60211**
Pan, Hao (*with* Song, Han-tao; Wang, Da-zhen) Markov model for packet scheduling in the transmission of streaming media. (English summary)
Panayiotou, Christos G. *see* **Paschalidis, Ioannis Ch. et al., 2004m:90009**
Pandey, Nand Kumar *see* **Mishra, Sant Sharan, 2004d:90013**
Park, Byung Chun (*with* Park, Jae Young; Foley, Robert D.) Carousel system performance. (English summary) **2004e:90025**
Park, Jae Young *see* **Park, Byung Chun et al., 2004e:90025**
Park, No Ik *see* **Lee, Ho Woo et al., 2004h:90011**
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Patuwo, B. Eddy *see* **Williams, Craig L.**
Pavai Madheswari, S. *see* **Kumar, B. Krishna, 2004g:90025**
Perry, David *see* **Berman, Oded et al., 2004e:60156** *and* **Nahmias, Steven et al., 2004j:60198**
Pestien, Victor *see* **Daduna, Hans et al., 2004g:90022**
Pisarenko, T. A. *see* **Golovko, N. I. et al., 2004e:90021**
Pollett, Philip K. *see* **Thompson, M. R., 2004j:90023**
Prabhu, N. U. From dams to telecommunication—a survey of basic models. (English summary) (*see* **2004a:62006**)
Ramakrishnan, Subramanian *see* **Daduna, Hans et al., 2004g:90022**
Ramasubramanian, S. *see* **Dasgupta, Amites[2], 2004h:60115**
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Resnick, Sidney I. *see* **Maulik, Krishanu, 2004a:90011**
Robert, Philippe ★ Stochastic networks and queues. **2004k:60001**
— *see also* **Guillemin, Fabrice et al., 2004m:60216**
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Rolski, Tomasz *see* **Dębicki, Krzysztof et al., 2004h:60059**
Ross, Sheldon M. *see* **Lin, Kyle Y., 2004e:90022**
Roundy, Robin O. *see* **Çakanyıldırım, Metin et al., 2004k:90037**
Rybko, A. N. (*with* Stolyar, A. L.; Sukhov, Yu. M.) Stability of global LIFO networks. (English summary) **2004c:90007**
Scheinhardt, Werner *see* **van Foreest, Nicky et al., 2004d:90007**
Scheller-Wolf, Alan Necessary and sufficient conditions for delay moments in FIFO multiserver queues with an application comparing s slow servers with one fast one. (English summary) **2004g:90028**
Schlegel, Sabine *see* **Boxma, Onno J. et al., 2004b:90022**
Schneider, Ulrike *see* **Corcoran, J. N., 2004c:60201**
Sekar, Ramamurthy *see* **Srinivasan, Lakshmi et al.**
Seshadri, Sridhar *see* **Haksöz, Çağri**
Sethuraman, Jay *see* **Fleischer, Lisa, (2004a:68002)**
Shao, Xiuli *see* **Li, Yongjian et al., 2004m:90028**

Sharma, G. C. *see* **Jain, Madhu et al.**
Sharma, Vinod *see* **Reddy, V. Venugopal et al.**
Shekhar, Chandra *see* **Jain, Madhu et al., 2004k:90023**
Shi, Peng *see* **Hou, Zhen Ting et al., 2004f:60186**
Shin, Yang Woo $GI/M/M/c$ queue with multiple acceptances in a window. (English summary) **2004b:90026**
Silvestrov, Dmitrii Upper bounds for exponential moments of hitting times for semi-Markov processes. (English summary) **2004m:60194**
Simchi-Levi, David (*with* Zhao, Yao[2]) The value of information sharing in a two-stage supply chain with production capacity constraints. (English summary) **2004k:60265**
Simonot, F. *see* **Manita, A., 2004k:60196**
Singh, Mahavir *see* **Jain, Madhu et al.**
van der Sluis, Erik *see* **van Dijk, Nico M., 2004a:90009**
Smith, J. MacGregor *see* **Daskalaki, Sophia**
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Stadje, Wolfgang *see* **Nahmias, Steven et al., 2004j:60198**
Stolletz, Raik ★ Performance analysis and optimization of inbound call centers. **2004e:90002**
Stolyar, A. L. *see* **Rybko, A. N. et al., 2004c:90007**
Sukhov, Yu. M. *see* **Rybko, A. N. et al., 2004c:90007** *and* **Kurkova, I. A., 2004i:60059**
Sullivan, Wayne G. *see* **Duffy, Ken et al., 2004b:60076**
Suma, M. B. *see* **Reddy, V. Venugopal et al.**
Sun, Jian An[2] *see* **Li, Yi Min et al.**
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Suri, Rajan *see* **Krishnamurthy, Ananth et al.**
Takine, Tetsuya *see* **Masuyama, Hiroyuki, 2004e:90023** *and* **2004h:90012**
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Marra, Rossana *see* **Benois, O. et al., 2004f:60202**
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— *see also* **Seppäläinen, Timo, 2004a:60164**
Shi, Zhan *see* **Csáki, Endre et al., 2004m:60218**
Shinoda, Masato Non-existence of phase transition of oriented percolation on Sierpinski carpet lattices. (English summary) **2004d:60254**
Sidoravicius, Vladas *see* **Ramírez, Alejandro F., 2004e:60160**
Slade, Gordon *see* **van der Hofstad, Remco, 2004a:60158**
Spohn, Herbert *see* **Ferrari, Patrik L., 2004k:60266**
Stacey, Alan Partial immunization processes. (English summary) **2004a:60165**
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Vaillancourt, J. *see* **Gauthier, Geneviève et al., 2004f:60205**
Vaillant, Olivier *see* **Talay, Denis, 2004a:60166**
Vares, Maria Eulália *see* **Andjel, Enrique Daniel, 2004h:60146**
Virág, Bálint *see* **Angel, Omer et al., 2004f:60201**
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Wang, Hao[5] State classification for a class of interacting superprocesses with location dependent branching. (English summary) **2004d:60255**
Werner, Wendelin *see* **Lawler, Gregory et al., 2004g:60130**
Wierman, John C. Bond percolation critical probability bounds for three Archimedean lattices. (English summary) **2004i:60150**
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Xiong, Jie *see* **Dawson, Donald A. et al., 2004m:60219**
Zegarliński, Bogusław *see* **Guionnet, Alice, 2004b:60226**
Zeitouni, Ofer *see* **Ben Arous, Gérard et al., 2004j:60199**
Zhang, Yu[1] *see* **Chow, Yun Shyong, 2004i:60149**
Znamenski, Dmitri *see* **Meester, Ronald, 2004j:60201**
van Zwet, Willem R. *see* **Fiocco, Marta, 2004m:60220** *and* **(2004a:62014)**

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Bossy, Mireille Optimal rate of convergence of a stochastic particle method to solutions of 1D viscous scalar conservation laws. (English summary) **2004m:65008**
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Chaté, Hugues *see* **Grégoire, Guillaume et al., 2004k:82072**
Chayes, Lincoln *see* **Biskup, Marek, 2004f:82016**
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Cohen, Reuven (*with* Havlin, Shlomo; ben-Avraham, Daniel) Structural properties of scale-free networks. (English summary) (*see* **2004f:00010**)
Coniglio, Antonio *see* **Fortunato, S. et al., 2004m:82058**
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Coppersmith, Don (*with* Gamarnik, David; Sviridenko, M. I.) The diameter of a long-range percolation graph. (English summary) **2004f:82029**
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De Sole, Alberto *see* **Bertini, L. et al., 2004j:82034**
Desvillettes, Laurent (*with* Ricci, V.) Non-Markovianity of the Boltzmann-Grad limit of a system of random obstacles in a given force field. (English summary) **2004k:82085**
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Durrett, Rick Shuffling chromosomes. (English summary) **2004j:92045**
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Eynard, Bertrand *see* **Bertola, Marco, 2004j:82023**
Faggionato, Alessandra (*with* Martinelli, Fabio) Hydrodynamic limit of a disordered lattice gas. (English summary) **2004i:82041**
Fatkullin, Ibrahim (*with* Vanden-Eijnden, Eric) Statistical description of contact-interacting Brownian walkers on the line. (English summary) **2004c:82043**
Fernández, Roberto (*with* Galves, A.) Markov approximations of chains of infinite order. (English summary) **2004e:60166**
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Fortunato, S. (*with* Stauffer, Dietrich; Coniglio, Antonio) Percolation in high dimensions is not understood. (English summary) **2004m:82058**
Fournier, Nicolas *see* **Deaconu, Madalina et al., 2004b:60166** *and* **2004m:82093**
Franceschetti, Massimo *see* **Booth, Lorna et al., 2004b:60026**
Friel, N. *see* **Pettitt, A. N. et al., 2004a:62015**
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Galves, A. *see* **Fernández, Roberto, 2004e:60166**
Gamarnik, David *see* **Coppersmith, Don et al., 2004f:82029**
Gantert, Nina *see* **Berger, Noam et al., 2004h:60149**
Gayrard, Véronique *see* **Ben Arous, Gérard et al., 2004g:82122** *and* **2004i:82057**
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Gleaton, James U. (*with* Lynch, James D.) On the distribution of the breaking strain of a bundle of brittle elastic fibers. (English summary) **2004k:62256**
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Graffi, Sandro (*with* Martinez, André; Pulvirenti, M.) Mean-field approximation of quantum systems and classical limit. (English summary) **2004a:81091**
Grégoire, Guillaume (*with* Chaté, Hugues; Tu, Yuhai) Moving and staying together without a leader. (English summary) **2004k:82072**
Greiner, Martin *see* **Glauche, Ingmar et al., 2004g:82050**
Grothaus, Martin (*with* Kondrat'ev, Yu. G.; Lytvynov, Eugene; Röckner, Michael) Scaling limit of stochastic dynamics in classical continuous systems. (English summary) **2004b:60011**
Guerra, Francesco (*with* Toninelli, Fabio Lucio) Central limit theorem for fluctuations in the high temperature region of the Sherrington-Kirkpatrick spin glass model. (English summary) **2004c:82053**
Guiol, H. (*with* Ravishankar, K.; Saada, Ellen) Microscopic structure of a decreasing shock for the asymmetric k-step exclusion process. (English summary) **2004m:82094**
Hanney, T. *see* **Evans, M. R.**
Havlin, Shlomo *see* **Cohen, Reuven et al., (2004f:00010)**
Heicklen, Deborah (*with* Lyons, Russell) Change intolerance in spanning forests. (English summary) **2004d:60015**
Herrmann, Samuel Système de processus auto-stabilisants. (English summary) [System of self-stabilizing processes] **2004e:60094**
van der Hofstad, Remco (*with* Slade, Gordon) The lace expansion on a tree with application to networks of self-avoiding walks. (English summary) **2004m:82053**
Holroyd, Alexander E. (*with* Peres, Yuval) Trees and matchings from point processes. (English summary) **2004b:60127**
Höns, Robin *see* **Mühlenbein, Heinz, 2004b:82033**
Huffer, Fred W. One-dimensional Poisson growth models with random and asymmetric growth. (English summary) **2004c:60028**
Ioffe, Dimitri *see* **Caputo, Pietro, 2004d:60257**
Ippolito, I. *see* **Vidales, A. M. et al., 2004g:82039**
Isopi, M. *see* **Gianfelice, M.**
Járai, Antal, Jr. Invasion percolation and the incipient infinite cluster in 2D. (English summary) **2004c:82111**
Johansson, Kurt Discrete polynuclear growth and determinantal processes. (English summary) **2004m:82096**
Jona-Lasinio, Giovanni *see* **Bertini, L. et al., 2004j:82034**
Kalinkin, A. V. Halting probability on the boundary of a random walk in a plane quadrant, and a branching process with particle interaction. (Russian. Russian summary) **2004m:60183**
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Kim, Jeong Han (*with* Lee, Sungchul) Tail bound for the minimal spanning tree of a complete graph. (English summary) **2004d:60018**
Kolokol'tsov, V. N. *see* **Belavkin, V. P., 2004h:82080**
Kondrat'ev, Yu. G. (*with* Kuna, Tobias) Correlation functionals for Gibbs measures and Ruelle bounds. (English summary) **2004g:82023**
— *see also* **Grothaus, Martin et al., 2004b:60011** *and* **Al'beverio, S. A. et al., 2004c:82005**
Kotecký, Roman *see* **Černý, Jaroslav, 2004c:82034**
Kozitskiĭ, Yu. V. *see* **Al'beverio, S. A. et al., 2004c:82005**
Kozyrev, Sergei *see* **Accardi, Luigi, (2004c:82079)**
Krapivsky, Paul L. *see* **Ben-Naim, E. et al., 2004h:91107**
Krause, Wolfram *see* **Glauche, Ingmar et al., 2004g:82050**
Kuna, Tobias *see* **Kondrat'ev, Yu. G., 2004g:82023**
Kurkova, I. A. *see* **Bovier, Anton, 2004i:82023**
Landim, C. *see* **Bertini, L. et al., 2004j:82034**
Latouche, Guy (*with* Remiche, Marie-Ange; Taylor, Peter G.) Transient Markov arrival processes. (English summary) **2004b:60184**
Lebowitz, Joel Louis *see* **Derrida, B. et al., 2004b:82034**
Lee, Sungchul *see* **Kim, Jeong Han, 2004d:60018**
Lessard, Sabin (*with* Wakeley, John) The two-locus ancestral graph in a subdivided population: convergence as the number of demes grows in the island model. (English summary) **2004m:92024**
Lynch, James D. *see* **Gleaton, James U., 2004k:62256**
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Lytvynov, Eugene *see* **Grothaus, Martin et al., 2004b:60011**
Lyubartsev, A. P. *see* **Vorontsov-Velyaminov, P. N., 2004a:81145**
Maes, Christian Entropy production in driven spatially extended systems. (English summary) **2004k:82050**
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Maier, Robert S. On crossing event formulas in critical two-dimensional percolation. (English summary) **2004h:82039**
Majda, Andrew J. *see* **Katsoulakis, Markos A. et al., 2004a:82094** *and* **2004d:65019**
Martinelli, Fabio *see* **Faggionato, Alessandra, 2004i:82041**
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Merkl, Franz Quenched asymptotics of the ground state energy of random Schrödinger operators with scaled Gibbsian potentials. (English summary) **2004h:82050**
Miclo, Laurent *see* **Del Moral, Pierre, 2004d:47081**
Møller, Jesper[1] Shot noise Cox processes. (English summary) **2004c:60151**
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Mossel, Elchanan (*with* Peres, Yuval) Information flow on trees. (English summary) **2004e:60143**
— *see also* **Benjamini, Itai, 2004c:60139**
Moukarzel, C. F. *see* **Vidales, A. M. et al., 2004g:82039**
Mountford, Thomas S. *see* **Cranston, M. et al., 2004d:60162**
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Nacu, Şerban Glauber dynamics on the cycle is monotone. (English summary) **2004h:82076**
Netočný, Karel *see* **Maes, Christian et al., 2004g:82091**
Nóbrega, R. A. *see* **de Oliveira, P. M. C. et al.**
O'Connell, Neil Random matrices, non-colliding processes and queues. (English summary) **2004g:15038**
Olandi, Enza *see* **Mourragui, Mustapha et al., 2004m:82097**
de Oliveira, P. M. C. (*with* Nóbrega, R. A.; Stauffer, Dietrich) Are the tails of percolation thresholds Gaussians? (English summary)
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Olla, Stefano (*with* Tremoulet, Christel) Equilibrium fluctuations for interacting Ornstein-Uhlenbeck particles. (English summary) **2004a:82072**
Orlandi, Enza *see* **Cassandro, Marzio et al., 2004a:35227**
Pemantle, Robin *see* **Lyons, Russell, 2004c:60274**
Peres, Yuval *see* **Holroyd, Alexander E., 2004b:60127**; **Mossel, Elchanan, 2004e:60143** *and* **Berger, Noam et al., 2004h:60149**
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Picco, Pierre *see* **Cassandro, Marzio et al., 2004a:35227**
Pichugin, B. Yu. A stochastic model of an isolated population with seasonal breeding and self-limitation. (Russian. Russian summary) **2004j:92084**
Pulvirenti, M. *see* **Graffi, Sandro et al., 2004a:81091**

Quant, C. *see* **Meester, Ronald**, 2004g:82092
Quintanilla, Jorge *see* **Zuev, S. A.**, 2004j:82022
Ravishankar, K. *see* **Guiol, H. et al.**, 2004m:82094
Rebolledo, Rolando Quantum interacting particles related to the exclusion process. (English summary) **2004b:82007**
Redig, Frank Gumbel statistics for the longest interval of identical spins in a one-dimensional Gibbs measure. (English summary) **2004g:82093**
— *see also* **Maes, Christian et al.**, 2004k:82070
Redner, S. *see* **Ben-Naim, E. et al.**, 2004h:91107
Reeves, Robert W. *see* **Pettitt, A. N. et al.**, 2004a:62015
Remiche, Marie-Ange *see* **Latouche, Guy et al.**, 2004b:60184
Ricci, V. *see* **Desvillettes, Laurent**, 2004k:82085
Rider, B. Brownian motion with restoring drift: micro-canonical ensemble and the thermodynamic limit. (English summary) **2004a:82038**
Röckner, Michael *see* **Grothaus, Martin et al.**, 2004b:60011 *and* **Al'beverio, S. A. et al.**, 2004c:82005
(Ruget, Claudine) *see* **Situational mathematics**, 2004h:00009
Saada, Ellen *see* **Maes, Christian et al.**, 2004k:82070; **Guiol, H. et al.**, 2004m:82094 *and* **Mourragui, Mustapha et al.**, 2004m:82097
Sander, Leonard M. (*with* Warren, C. P.; Sokolov, I. M.) Epidemics, disorder, and percolation. (English summary) **2004i:92029**
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Shiga, Tokuzo *see* **Cranston, M. et al.**, 2004d:60162
Shirai, Tomoyuki (*with* Yoo, Hyun Jae) Glauber dynamics for fermion point processes. (English summary) **2004c:82085**
Slade, Gordon *see* **van der Hofstad, Remco**, 2004m:82053
Sokolov, I. M. *see* **Sander, Leonard M. et al.**, 2004i:92029
Sollacher, Rudolf *see* **Glauche, Ingmar et al.**, 2004g:82050
Sortais, Michel *see* **Ben Arous, Gérard**, 2004b:82022
Speer, E. R. *see* **Derrida, B. et al.**, 2004b:82034
Stauffer, Dietrich *see* **Fortunato, S. et al.**, 2004m:82058 *and* **de Oliveira, P. M. C. et al.**
Sukhov, Yu. M. *see* **Datta, Nilanjana**, 2004f:81051
Sun, Feng Xin *see* **Wang, Ju Feng et al.**
Sviridenko, M. I. *see* **Coppersmith, Don et al.**, 2004f:82029
Talagrand, Michel The generalized Parisi formula. (English and French summaries) **2004h:82053**
— On the meaning of Parisi's functional order parameter. (English and French summaries) **2004k:82048**
— Self organization in the low temperature region of a spin glass model. (English summary) **2004b:82023**
Tanré, Etienne *see* **Deaconu, Madalina et al.**, 2004b:60166 *and* 2004m:82093
Taylor, Peter G. *see* **Latouche, Guy et al.**, 2004b:60184
Tirozzi, Brunello *see* **Shcherbina, Mariya**, 2004g:82123
Tolmacheva, Yu. A. *see* **Virchenko, Yu. P.**, 2004g:82051
Toninelli, Fabio Lucio *see* **Guerra, Francesco**, 2004c:82053
Tóth, Bálint (*with* Valkó, Benedek) Onsager relations and Eulerian hydrodynamic limit for systems with several conservation laws. (English summary) **2004g:82094**
Tremoulet, Christel *see* **Olla, Stefano**, 2004a:82072
Tu, Yuhai *see* **Grégoire, Guillaume et al.**, 2004k:82072
Ugalde, E. *see* **Chazottes, J.-R.**, 2004d:37008
Valkó, Benedek *see* **Tóth, Bálint**, 2004g:82094
Vanden-Eijnden, Eric *see* **Fatkullin, Ibrahim**, 2004e:82043
Vere-Jones, David *see* **Daley, Daryl John**, 2004c:60001
Verschuere, Michel *see* **Maes, Christian et al.**, 2004g:82091
Vidales, A. M. (*with* Ippolito, I.; Moukarzel, C. F.) Force-displacement distributions and percolation properties in simulated 2-D packings. (English summary) **2004g:82039**
Virchenko, Yu. P. (*with* Tolmacheva, Yu. A.) Revision of upper estimate of percolation threshold on square lattice. (English summary) **2004g:82051**
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60K37 Processes in random environments

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62–XX Statistics

62–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Tewes, Bernward *see* **Falk, Michael et al., 2004e:62002**
Thompson, James R. (*with* Koronacki, Jacek) ★ Statistical process control.
Tourangeau, Roger *see* **Groves, Robert M. et al.**
Wang, John Wenyu *see* **Lee, Elisa T., 2004b:62003**
Washington, Simon P. (*with* Karlaftis, Matthew G.; Mannering, Fred L.) ★ Statistical and econometric methods for transportation data analysis. **2004f:62004**
Wasserman, Larry ★ All of statistics. **2004m:62003**

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Crassidis, John L. (*with* Junkins, John L.) ★ Optimal estimation of dynamic systems. **2004m:93001**
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Le, Chap T. ★ Introductory biostatistics. **2004a:92001**
Soong, T. T. ★ Fundamentals of probability and statistics for engineers.

62–02 Research exposition (monographs, survey articles)

Ahsanullah, Mohammad (*with* Nevzorov, V. B.) ★ Ordered random variables. **2004j:62002**
(Allison, Paul) *see* **Altman, Micah et al.**
Altman, Micah (*with* Gill, Jeff; McDonald, Michael P.) ★ Numerical issues in statistical computing for the social scientist.
Beran, Jan ★ Statistics in musicology. **2004i:62004**
Braun, John *see* **Maindonald, John H.**
(Bretthorst, G. Larry) *see* **Jaynes, E. T., 2004g:62006**
Caliński, Tadeusz (*with* Kageyama, Sanpei) ★ Block designs: a randomization approach. Vol. II. **2004i:62005**
Campolongo, Francesca *see* **Saltelli, Andrea et al.**
Chatterjee, Shoutir Kishore ★ Statistical thought: a perspective and history. **2004k:62009**
Chen, Han-Fu ★ Stochastic approximation and its applications. (English summary) **2004f:62005**
Chen, Huey-Long *see* **Rao, Adiseshappa Ramachandra et al.**
Chikuse, Yasuko ★ Statistics on special manifolds. **2004d:62001**
Collett, David ★ Modelling binary data.
Congdon, Peter ★ Applied Bayesian modelling. **2004d:62002**
Cordeiro, Gauss Moutinho ★ Modelos lineares generalizados. (Portuguese) [Generalized linear models]
Cox, D. R. (*with* Solomon, P. J.) ★ Components of variance. **2004f:62006**
Cramer, J. S. ★ Logit models from economics and other fields. **2004j:62003**
Dasu, Tamraparni (*with* Johnson, Theodore) ★ Exploratory data mining and data cleaning. **2004e:62003**
David, H. A. (*with* Nagaraja, H. N.) ★ Order statistics. **2004f:62007**
Diggle, Peter J. (*with* Heagerty, Patrick J.; Liang, Kung-Yee; Zeger, Scott L.) ★ Analysis of longitudinal data.
Dijksterhuis, G. B. *see* **Gower, John C., 2004m:62005**
Dunajeva, Olga ★ Asymptotic matrix methods in statistical inference problems. **2004h:62001**
Fan, Jianqing (*with* Yao, Qiwei) ★ Nonlinear time series. **2004a:62002**
Fang, Kai-Tai *see* **Pan, Jian-Xin, 2004m:62008**
Frigyesi, Attila ★ Topics in multifractal measures, nonparametrics and biostatistics. **2004m:62004**
(Garrett, Elizabeth S.) *see* **Analysis of gene expression data, 2004e:62008**
Ghosh, Jayanta K. (*with* Ramamoorthi, R. V.) ★ Bayesian nonparametrics. **2004g:62004**
Gill, Jeff *see* **Altman, Micah et al.**
Gower, John C. (*with* Dijksterhuis, G. B.) ★ Procrustes problems. **2004m:62005**
Groß, Jürgen ★ Linear regression. **2004m:62006**
Gulati, Sneh (*with* Padgett, William J.) ★ Parametric and nonparametric inference from record-breaking data. **2004a:62003**
Hamed, Khaled H. *see* **Rao, Adiseshappa Ramachandra et al.**
Hardin, James W. (*with* Hilbe, Joseph M.) ★ Generalized estimating equations. **2004g:62005**
Heagerty, Patrick J. *see* **Diggle, Peter J. et al.**
Hilbe, Joseph M. *see* **Hardin, James W., 2004g:62005**
(Irizarry, Rafael A.) *see* **Analysis of gene expression data, 2004e:62008**
Jaynes, E. T. ★ Probability theory. **2004g:62006**
Jiang, Ren Yan *see* **Murthy, D. N. Prabhakar et al., 2004h:62004**
Johnson, Theodore *see* **Dasu, Tamraparni, 2004e:62003**
Jolliffe, Ian T. ★ Principal component analysis. **2004k:62010**
Kageyama, Sanpei *see* **Caliński, Tadeusz, 2004i:62005**
Kantz, Holger (*with* Schreiber, Thomas[2]) ★ Nonlinear time series analysis. **2004m:62007**
Kemp, Kenneth W. ★ The efficient use of quality control data. **2004h:62002**
(King, Gary) *see* **Altman, Micah et al.**
Kleiber, Christian (*with* Kotz, Samuel) ★ Statistical size distributions in economics and actuarial sciences. **2004e:62004**
Knottnerus, Paul ★ Sample survey theory. **2004g:62007**
Kotz, Samuel (*with* Lumelskii, Yan; Pensky, Marianna) ★ The stress-strength model and its generalizations. **2004c:62002**
— (*with* Nadarajah, Saralees) ★ Multivariate t distributions and their applications. **2004k:62011**
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Kushner, Harold J. (*with* Yin, Gang George) ★ Stochastic approximation and recursive algorithms and applications. **2004e:62005**
Lahiri, Soumendra N. ★ Resampling methods for dependent data. **2004f:62008**
Lemm, Jörg C. ★ Bayesian field theory. (English summary) **2004f:62009**
(LeSage, James P.) *see* **Altman, Micah et al.**
Levitin, Gregory *see* **Lisnianski, Anatoly, 2004e:62006**
Liang, Kung-Yee *see* **Diggle, Peter J. et al.**
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Maindonald, John H. (*with* Braun, John) ★ Data analysis and graphics using R—an example-based approach.
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McDonald, Michael P. *see* **Altman, Micah et al.**
Miller, Alan ★ Subset selection in regression.
Møller, Jesper[1] (*with* Waagepetersen, Rasmus Plenge) ★ Statistical inference and simulation for spatial point processes. **2004h:62003**
— *see also* **Spatial statistics and computational methods, 2004f:62012**
Murthy, D. N. Prabhakar (*with* Xie, Min[1]; Jiang, Ren Yan) ★ Weibull models. **2004h:62004**
Nadarajah, Saralees *see* **Kotz, Samuel, 2004k:62011**
Nagaraja, H. N. *see* **David, H. A., 2004f:62007**
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Nittner, Thomas ★ Fehlende Daten in additiven Modellen. (German. English and German summaries) [Missing data in additive models]
O'Gorman, Thomas W. ★ Applied adaptive statistical methods. **2004i:62006**
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Pan, Jian-Xin (*with* Fang, Kai-Tai) ★ Growth curve models and statistical diagnostics. (English summary) **2004m:62008**
(Parmigiani, Giovanni) *see* **Analysis of gene expression data, 2004e:62008**
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Rao, Adiseshappa Ramachandra (*with* Hamed, Khaled H.; Chen, Huey-Long) ★ Nonstationarities in hydrologic and environmental time series.
Rässler, Susanne ★ Statistical matching. **2004i:62007**
Ratto, Marco *see* **Saltelli, Andrea et al.**
Rowe, Daniel B. ★ Multivariate Bayesian statistics. **2004f:62010**
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Schreiber, Thomas[2] *see* **Kantz, Holger, 2004m:62007**
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Small, Christopher G. (*with* Wang, Jin Fang) ★ Numerical methods for nonlinear estimating equations. **2004k:62012**
Solomon, P. J. *see* **Cox, D. R., 2004f:62006**
Spizzichino, Fabio ★ Subjective probability models for lifetimes. **2004c:62003**
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Waagepetersen, Rasmus Plenge *see* **Møller, Jesper[1], 2004h:62003**
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Xie, Min[1] *see* **Murthy, D. N. Prabhakar et al., 2004h:62004**
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Zivot, Eric (*with* Wang, Jiahui) ★ Modeling financial time series with S-Plus®. **2004f:62011**

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Aalborg ★ Spatial statistics and computational methods. **2004f:62012**
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Giesbrecht, Francis G. (*with* Gumpertz, Marcia L.) ★ Planning, construction, and statistical analysis of comparative experiments. **2004k:62003**
Gumpertz, Marcia L. *see* **Giesbrecht, Francis G., 2004k:62003**
Senn, Stephen ★ Dicing with death. **2004j:60002**
Winkler, Gerhard ★ Image analysis, random fields and Markov chain Monte Carlo methods. **2004c:94028**

62–03 Historical (must also be assigned at least one classification number from Section 01)

Barlow, Richard E. Mathematical reliability theory: from the beginning to the present time. (English summary) **2004j:62004**
Benjamini, Yoav (*with* Braun, Henry) John W. Tukey's contributions to multiple comparisons. (English summary) **2004i:62008**
Braun, Henry *see* **Benjamini, Yoav, 2004i:62008**
Brillinger, David R. John W. Tukey's work on time series and spectrum analysis. (English summary) **2004k:62013**
de Cristofaro, Rodolfo The history of statistical thought, with remarks on the teaching of statistics. (Italian. English, French and Italian summaries)
Dallal, Gerard E. *see* **Wachsmuth, Amanda et al., 2004f:62017**
Dempster, Arthur P. John W. Tukey as "philosopher". (English summary) **2004b:62004**
Farebrother, Richard William Whose hare and whose tortoise. (English summary) (*see* **2004d:62007**)
Friedman, Jerome H. (*with* Stuetzle, Werner) John W. Tukey's work on interactive graphics. (English summary) **2004c:62004**
(Ghysels, Eric) *see* **Granger, Clive W. J., 2004f:62013**
Granger, Clive W. J. ★ Essays in econometrics: collected papers of Clive W. J. Granger. Vol. I. **2004f:62013**
Hall, Peter G. A short prehistory of the bootstrap. (English summary)
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Huber, Peter J. John W. Tukey's contributions to robust statistics. **2004c:62005**
Kotz, Samuel Some personal reflections on the history and state of statistical science. (*see* **2004m:60007**)
Lai, Tze Leung Stochastic approximation. (English summary) **2004f:62014**
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Phillips, Peter C. B. Vision and influence in econometrics: John Denis Sargan. (English summary) **2004f:62015**
(Robbins, Herbert E.) *see* **Siegmund, David, 2004f:62016**
Sargan, John Denis Current problems in econometrics—a personal view. **2004i:62009**
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Siegmund, David Herbert Robbins and sequential analysis. (English summary) **2004f:62016**
Speed, Terence P. John W. Tukey's contributions to analysis of variance. (English summary) **2004d:62004**
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Wachsmuth, Amanda (*with* Wilkinson, Leland; Dallal, Gerard E.) Galton's bend: a previously undiscovered nonlinearity in Galton's family stature regression data. (English summary) **2004f:62017**
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Anscombe, F. R. Quiet contributor: the civic career and times of John W. Tukey. (English summary)
Armatte, Michel Developments in statistical thinking and their links with mathematics.
Arribas, José M. Les débuts de la statistique mathématique en Espagne (1914–1936). (English and French summaries) [The rise of mathematical statistics in Spain (1914–1936)]
(Bayes, Thomas) *see* **Gómez Villegas, Miguel Angel, 2004b:01039** *and* **Dale, Andrew I., 2004g:01031**
Bera, Anil K. The ET interview: Professor C. R. Rao. (English summary) **2004c:01031**
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Chatterjee, Shoutir Kishore ★ Statistical thought: a perspective and history. **2004k:62009**
Conti, Pier Luigi Obituary: Giovanni Battista Tranquilli (1935–2003).
(Cox, Gertrude M.) *see* **Lohr, Sharon L.**
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Dale, Andrew I. ★ Most honourable remembrance. **2004g:01031**
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Espasa, Antoni Laudatio on the occasion of the investiture of Professor John Denis Sargan with the degree of *Doctor Honoris Causa* of the Universidad Carlos III, 2 February 1993.
Esterby, Sylvia R. A conversation with Abdel H. El-Shaarawi. (English summary)
Fernholz, Luisa Turrin Remembering John W. Tukey.
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Gani, Joseph M. (*with* Seneta, Eugene) Christopher Charles Heyde, AM, DSc, FAA, FASSA.
Gaudillière, Jean-Paul Beyond one-case statistics: mathematics, medicine, and the management of health and disease in the postwar era.
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(Gnot, Stanisław) *see* **Michalski, Andrzej**
Godard, Roger History of the least squares method and its links with the probability theory. (*see* **2004j:01005**)
Gómez Villegas, Miguel Angel Comment: "Essay towards solving a problem in the doctrine of chances" [R. Soc. Lond. Philos. Trans. **53** (1763), 370–418] by T. Bayes. (Spanish. English and Spanish summaries) **2004b:01039**
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Hadjadji Seddik-Ameur, Nacira Les tests de normalité de Lhoste. (English and French summaries) [Lhoste's tests of normality] **2004f:01011**
Hand, David J. Modern data analysis: a clash of paradigms. (English summary) **2004c:62008**
Härdle, Wolfgang Interview with James E. Gentle.
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Hendry, David Forbes J. Denis Sargan and the origins of LSE econometric methodology. **2004e:01045**

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Hickman, James C. (*with* Heacox, Linda) Actuaries in history: the wartime birth of operations research. (English summary) **2004d:01021**
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Lohr, Sharon L. Statistical frontiers in survey sampling. (English summary)
Mallows, Colin L. John Tukey at Bell Labs. (English summary)
Michalski, Andrzej Memory of Stanisław Gnot.
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Morgenthaler, Stephan John W. Tukey as teacher.
— *see also* **Fernholz, Luisa Turrin**
Mukhopadhyay, Nitis Celebrating Abraham Wald's birth centenary. (English summary)
(Narain, Prem) *see* **Biography: Narain, Prem**
(Nelder, John A.) *see* **Senn, Stephen**
(Newcomb, Simon) *see* **Sheĭnin, O. B.**
Orlitsky, Alon (*with* Santhanam, Narayana P.; Zhang, Junan) Always good Turing: asymptotically optimal probability estimation. (English summary)
(Pázman, Andrej) *see* **Dvurečenskij, Anatolij**
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Porter, Theodore M. Statistics and physical theories. (*see* **2004g:01001**)
(Raghavarao, Damaraju) *see* **Biography: Raghavarao, Damaraju**, (**2004j:62011**)
(Rao, Calyampudi Radhakrishna) *see* **Bera, Anil K.**, **2004c:01031**
(Robbins, Herbert E.) *see* **Efron, Bradley**, **2004f:62025**
Robinson, Peter M. Denis Sargan: some perspectives. (English summary) **2004e:01052**
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Sargan, John Denis The development of econometrics at LSE in the last 30 years.
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(Sazonov, Vyacheslav Vasil′evich) *see* **Obituary: Sazonov, Vyacheslav Vasil′evich**
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Senn, Stephen A conversation with John Nelder. (English summary)
(Shannon, Claude E.) *see* **Solana-Ortega, Alberto**, **2004a:01035**
Sheĭnin, O. B. Simon Newcomb as a statistician.
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(Tranquilli, Giovanni Battista) *see* **Conti, Pier Luigi**
Tribus, Myron An appreciation of Richard Threlkeld Cox. (English summary) **2004a:01036**
(Tukey, John Wilder) *see* **Brillinger, David R.**, **2004c:01032**; **Wainer, Howard**; **Anscombe, F. R.**; **Mallows, Colin L.**; **Fernholz, Luisa Turrin**; **Hartigan, J. A.** *and* **Morgenthaler, Stephan**
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Birth of Wald, Abraham *see* **Mukhopadhyay, Nitis**
Bibiliography:
Gnot, Stanisław *see* **Michalski, Andrzej**
Bibliography:
Engle, Robert F. *see* **Diebold, Francis X.**
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Tranquilli, Giovanni Battista *see* **Conti, Pier Luigi**
Biography:
Bayes, Thomas *see* **Dale, Andrew I.**, **2004g:01031**
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Birthday:
Fraser, Donald Alexander Stuart *see* **Brillinger, David R.**, (**2004j:62008**)
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Pázman, Andrej *see* **Dvurečenskij, Anatolij**
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Obituary:
Gnot, Stanisław *see* **Michalski, Andrzej**
Petitpierre, André *see* **Schmutz, Raymond**
Sazonov, Vyacheslav Vasil′evich Vyacheslav Vasil′evich Sazonov. (Russian)
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62–04 Explicit machine computation and programs (not the theory of computation or programming)

Asano, Chooichiro (*with* Takeuchi, Akinobu) Web-based statistical system by using the DLL. (English summary)
— *see also* **Takeuchi, Akinobu et al.**
Berry, Michael W. *see* **Giles, Justin T. et al.**, (**2004j:62012**)
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Čížková, Lenka Numerical optimization methods in econometrics. (*see* **2004k:62008**)
Fischer, Bernd[3] (*with* Schumann, Johann) AutoBayes: a system for generating data analysis programs from statistical models. (English summary) **2004f:62018**
Fort, Gersende (*with* Moulines, Éric) Convergence of the Monte Carlo expectation maximization for curved exponential families. (English summary) **2004h:62005**
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(Kauermann, Göran) *see* **Workshop: Statistical Modelling**
(Khattree, Ravindra) *see* **Statistics in industry**, **2004h:62006**
(Kittler, Josef) *see* **Multiple classifier systems**, **2004j:62010**
(Klein, Ingo) *see* **Contributions to modern econometrics**, **2004k:62015**
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(Lawson, Andrew B.) *see* **Spatial cluster modelling**, **2004f:62020**
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Lin, Yi[3] *see* **Zwick, Martin et al.**
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(Rao, Calyampudi Radhakrishna) *see* **Statistics in industry**, **2004h:62006**
(Renault, Eric) *see* **Dynamic factor models**
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(Robbins, Herbert E.) *see* **Dedicated to the memory of Herbert E. Robbins**
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(Rönz, Bernd) *see* **COMPSTAT**, **2004a:62009**
(Rousseeuw, Peter J.) *see* **Developments in robust statistics**, **2004a:62010**
(Ryan, Louise M.) *see* **Topics in modelling of clustered data**, **2004g:62010**
(Sabnis, Sanjeev V.) *see* **Proceedings: Conference of the Forum for Interdisciplinary Mathematics on Statistics, Combinatorics & Related Areas**
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(Sinha, Bikas K.) *see* **Proceedings: Conference of the Forum for Interdisciplinary Mathematics on Statistics, Combinatorics & Related Areas**
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(West, Mike) *see* **Bayesian statistics, 2004g:62009**
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Conference:
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  Indian Statistical Association ★ Advances on methodological and applied aspects of probability and statistics. **2004a:62006**
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Contributions to modern econometrics ★ Contributions to modern econometrics. **2004k:62015**
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Data analysis from statistical foundations ★ Data analysis from statistical foundations. **2004j:62008**
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Focus on applied statistics ★ Focus on applied statistics. **2004m:62010**
Foundations of statistical inference ★ Foundations of statistical inference. **2004f:62019**
Frontiers of financial econometrics and financial engineering ★ Frontiers of financial econometrics and financial engineering.
Hamilton, ON ★ Advances on methodological and applied aspects of probability and statistics. **2004a:62006**
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Montreal, QC ★ Recent advances in statistical methods. **2004k:62018**
Multiple classifier systems ★ Multiple classifier systems. **2004j:62010**
Neuchâtel ★ Statistical data analysis based on the L_1-norm and related methods. **2004d:62007**
New trends in computational statistics with biomedical applications ★ New trends in computational statistics with biomedical applications.
New trends in statistical information processing ★ New trends in statistical information processing.
Nonlinear estimation and classification ★ Nonlinear estimation and classification. **2004d:62006**
Osaka ★ New trends in computational statistics with biomedical applications.
Philadelphia, PA ★ Recent advances in experimental designs and related topics. **2004j:62011**
Principles of nonparametric learning ★ Principles of nonparametric learning. **2004a:62011**
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Pune ★ Reliability theory and its applications.
Quantitative methods for current environmental issues ★ Quantitative methods for current environmental issues. **2004m:62011**
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Recognition and classification techniques ★ Recognition and classification techniques.
Reliability ★ Reliability.
Reliability theory and its applications ★ Reliability theory and its applications.
Seminar:
  Integrated Approaches to Risk Measurement in the Financial Services Industry ★ SOA Seminar: Integrated Approaches to Risk Measurement in the Financial Services Industry.
Sheffield ★ Quantitative methods for current environmental issues. **2004m:62011**
Shoresh ★ Foundations of statistical inference. **2004f:62019**

Soft methods in probability, statistics and data analysis ★ Soft methods in probability, statistics and data analysis. **2004a:62013**
Southampton ★ Analysis of survey data. **2004a:62008**
Spatial cluster modelling ★ Spatial cluster modelling. **2004f:62020**
Special Issue:
Azen, Stanley P. ★ Special issue in honour of Stan Azen: a birthday celebration.
Computational finance ★ Special issue on computational finance.
Dependable reasoning about uncertainty ★ Special issue on dependable reasoning about uncertainty.
Quasi-symmetry and categorical data analysis ★ Special issue on quasi-symmetry and categorical data analysis.
Robust statistics ★ Special issue on robust statistics.
Statistical analysis of massive data streams ★ Statistical analysis of massive data streams.
Statistical applications in financial econometrics ★ Statistical applications in financial econometrics.
Statistical data analysis based on the L_1-norm and related methods ★ Statistical data analysis based on the L_1-norm and related methods. **2004d:62007**
Statistical data mining and knowledge discovery ★ Statistical data mining and knowledge discovery. **2004j:62012**
Statistical disclosure control techniques ★ Tokushū kohyō kaiji mondai no tōkei riron. (Japanese) [Statistical disclosure control techniques]
Statistics and science: a Festschrift for Terry Speed ★ Statistics and science: a Festschrift for Terry Speed. **2004d:62008**
Statistics in industry ★ Statistics in industry. **2004h:62006**
Stochastic models in engineering, technology, and management ★ Stochastic models in engineering, technology, and management.
Symposium:
Barndorff-Nielsen, Ole E. ★ Symposium in Honour of Ole E. Barndorff-Nielsen. **2004a:62014**
Computational Statistics ★ COMPSTAT 2002. **2004a:62009**
New Trends in Optimization and Computational Algorithms ★ New trends in statistical information processing.
Statistical Software ★ Incomplete data: multiple imputation and model-based analysis.
Tehran ★ {Sixth International Statistics Conference (ISC6)}.
Tenerife ★ Bayesian statistics 7. **2004g:62009**
Theme: Data analysis ★ Theme: Data analysis.
Time series analysis ★ {Análisis de series de tiempo}. [{Time series analysis}]
Topics in modelling of clustered data ★ Topics in modelling of clustered data. **2004g:62010**
Trondheim ★ Mathematical and statistical methods in reliability. **2004i:62010**
Udine ★ Principles of nonparametric learning. **2004a:62011**
Utrecht ★ Incomplete data: multiple imputation and model-based analysis.
Varna ★ Proceedings of the Seminar on Statistical Data Analysis.
Vorau ★ Developments in robust statistics. **2004a:62010**
Warsaw ★ Soft methods in probability, statistics and data analysis. **2004a:62013**
Washington, DC ★ Statistical analysis of massive data streams.
Wavelets ★ Wavelets.
Workshop:
Applied Probability ★ {International Workshop in Applied Probability}.
Soft Methods in Probability and Statistics ★ Soft methods in probability, statistics and data analysis. **2004a:62013**
Statistical Modelling ★ {Euroworkshop on Statistical Modelling}.

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Akahira, Masafumi (*with* Takeuchi, Kei) ★ Joint statistical papers of Akahira and Takeuchi. **2004j:01033**
(Ali, Mir Masoom) *see* **Hanif, Muhammad**
(Athreya, Krishna B.) *see* **Probability, statistics and their applications: papers in honor of Rabi Bhattacharya, 2004c:00021**
(Basmann, Robert L.) *see* **In honor of Robert L. Basmann**
(Berleant, Daniel) *see* **Special Issue: Dependable reasoning about uncertainty**
(Bhattacharya, Rabi N.) *see* **Probability, statistics and their applications: papers in honor of Rabi Bhattacharya, 2004c:00021**
(Bornholdt, Stefan) *see* **Handbook: Graphs and networks, 2004f:00010**
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(McAleer, Michael) *see* **Special Issue: Selected papers of the MSSANZ/IMACS 14th Biennial Conference on Modelling and Simulation, 2nd**
(Mesiar, Radko) *see* **Aggregation techniques**
(Møller, Jesper[1]) *see* **Spatial statistics and computational methods, 2004f:62012**
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(Pázman, Andrej) *see* **Probastat '02. Part I** *and* **Probastat '02. Part II**
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62–07 Data analysis

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Rodriguez, Ricardo J. First significant digit patterns from mixtures of uniform distributions. (English summary)
Rosenheck, Robert A. *see* **Lin, Haiqun et al.**
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Schwertman, Neil C. (*with* Kiser, Terry L.) Designing efficient experiments comparing two normal populations with unknown and unequal variances. (English summary)
Severini, Thomas A. Approximation of sample space derivatives. (English summary) (*see* **2004j:62008**)
Sharp, David H. *see* **Glimm, James et al.**, **2004g:62012**
Shi, Han Min *see* **Cheng, Bang Wen et al.**
Shih, Yu-Shan (*with* Tsai, Hsin-Wen) Variable selection bias in regression trees with constant fits. (English summary)
Sibuya, Masaaki *see* **Yamato, Hajime**
Siciliano, Roberta *see* **Petrakos, George et al.**
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Soss, Michael *see* **Aloupis, Greg et al.**, **2004b:62005**
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Stanghellini, Elena (*with* van der Heijden, Peter G. M.) A multiple-record systems estimation method that takes observed and unobserved heterogeneity into account. (English and French summaries)
Stavropoulos, Photis *see* **Petrakos, George et al.**
(Stern, Hal S.) *see* **Peña, Daniel et al.**, (**2004g:62009**)
Stoumbos, Zachary G. *see* **Gal, Avigdor et al.**, **2004g:62011**
Sun, Yi[3] (*with* Tino, Peter; Nabney, Ian) Visualisation of incomplete data using class information constraints. (English summary) (*see* **2004m:65003**)
Takemura, Akimichi Current trends in theoretical research of statistical disclosure control problems. (Japanese. English and Japanese summaries)
Taki, Atsuhiro Statistical disclosure control for tabular data and current trends in theoretical and applied research. (Japanese. English and Japanese summaries)
Tan, W. D. (*with* Gan, F. F.; Chang, Tee-Chin) Using normal quantile plot to select an appropriate transformation to achieve normality. (English summary)
Thede, Anke *see* **Geyer-Schulz, Andreas et al.**, (**2004j:62012**)
Thijs, Herbert *see* **Molenberghs, Geert et al.**
Thomas, D. Roland *see* **Rao, J. N. K.**, (**2004a:62008**)
Tiao, George C. *see* **Peña, Daniel et al.**, (**2004g:62009**)
Tino, Peter *see* **Sun, Yi[3] et al.**, (**2004m:65003**)
Tofallis, Chris Multiple neutral data fitting. (English summary)
Tokushige, Shuichi (*with* Inada, Koichi; Yadohisa, Hiroshi) Dissimilarity and related methods for functional data. (English summary)
Torgo, Luis Computationally efficient linear regression trees. (English summary) (*see* **2004d:62005**)
Toussaint, Godfried *see* **Aloupis, Greg et al.**, **2004b:62005**
Trocine, Linda *see* **Hill, Christopher M. et al.**, (**2004j:62012**)
Trottini, Mario *see* **Dobra, Adrian et al.**, (**2004g:62009**)
Trueblood, Michael A. *see* **Cermeño, Rodolfo et al.**
Tsai, Hsin-Wen *see* **Shih, Yu-Shan**
Van Aelst, Stefan *see* **Pison, Greet**
Van Driessen, Katrien *see* **Rousseeuw, Peter J.**, **2004j:62013**
Verbeke, Geert *see* **Molenberghs, Geert et al.**
Vlădărean, Cristina-Maria A fuzzy approach to data reliability and data mining. (English and Romanian summaries)
Volinsky, Chris *see* **Cortes, Corinna et al.**
Wang, Qi Zhuang *see* **Cheng, Bang Wen et al.**
Wedel, Michel *see* **Kamakura, Wagner A.**
Wegman, Edward J. *see* **Solka, Jeffrey L. et al.**, (**2004j:62012**)
Wilson, Alyson G. (*with* Reese, C. Shane; Hamada, Michael S.; Martz, Harry F.) Integrated analysis of computer and physical experimental lifetime data. (English summary)
Wolff, Joachim *see* **Augustin, Thomas**, **2004m:62012**
Yadohisa, Hiroshi *see* **Tokushige, Shuichi et al.**
Yamaguchi, Kazunori[2] (*with* Kono, Yasunari; Asano, Chooichiro) A new statistical tool for finding causal conditions for small data sets and its software. (English summary)
Yamato, Hajime (*with* Sibuya, Masaaki) Pitman sampling formula and related topics. (Japanese. English and Japanese summaries)
Yates, Sumer *see* **Kim, Hyunjoong**, (**2004j:62012**)
Ye, Kenny Q. *see* **Glimm, James et al.**, **2004g:62012**
Zellner, Arnold Econometric and statistical data mining, prediction and policy-making. (English summary) (*see* **2004j:62012**)
Zhang, Chunming M. Calibrating the degrees of freedom for automatic data smoothing and effective curve checking. (English summary) **2004h:62009**
Zhukovskiĭ, E. L. Data processing on the basis of the uncertainty relation. (Russian. Russian summary)
Zijlstra, Bonne J. H. *see* **van Duijn, Marijtje A. J. et al.**

Items with secondary classifications in 62–07

Abbod, M. F. *see* **Hiassat, M. et al.**, (**2004j:62012**)
Ahmed, S. E. *see* **Al-Kandari, Noriah M. et al.**
Akinsete, Alfred (*with* Onyiah, Leonard) Home advantage in the game of soccer. (English summary)
Albert, Paul S. (*with* Follmann, Dean A.) A random effects transition model for longitudinal binary data with informative missingness. (English summary)
Al-Kandari, Noriah M. (*with* BuHamra, Sana S.; Khan, Sohail Munawar; Ahmed, S. E.) On the estimation of intraclass correlation coefficients: a shrinkage pretest perspective. (English summary)
Almøy, Trygve *see* **Sæbø, Solve**
Altavilla, F. *see* **Pelliccioni, A. et al.**, (**2004m:62011**)
Amaratunga, Dhammika (*with* Cabrera, Javier) Mining data to final subsets of high activity. (English summary)
Arnold, Jonathan *see* **Datta, Susmita**
Attie, Alan D. *see* **Lin, Yi[5] et al.**, (**2004e:62008**)
Azen, Stanley P. *see* **Jones, Jason et al.**
Baeza-Yates, Ricardo (*with* Bustos, Benjamín; Chávez, Edgar; Herrera, Norma; Navarro, Gonzalo) Clustering in metric spaces with applications to information retrieval. (*see* **2004j:62005**)
Bammann, Karin *see* **Pigeot, Iris et al.**
Bazan, Jan (*with* Nguyen Hung Son[2]; Szczuka, Marcin) A view on rough set concept approximations. (English summary)
Béguin, Cédric (*with* Hulliger, Beat) Multivariate outlier detection in incomplete survey data: the epidemic algorithm and transformed rank correlations. (English summary)
Berardi, S. *see* **Pelliccioni, A. et al.**, (**2004m:62011**)
Bernholt, Thorsten (*with* Fried, Roland) Computing the update of the repeated median regression line in linear time. (English summary) **2004g:68177**
Berry, Michael W. *see* **Giles, Justin T. et al.**, (**2004j:62012**)
Bhatia, V. K. *see* **Kumar Paul, Amrit**
Birdwell, J. Douglas *see* **Qi, Hairong et al.**, (**2004j:62012**)
Biswas, Atanu (*with* Das, Kalyan) A semiparametric Bayesian analysis of the salamander mating experiment. (English summary)
Bock, Hans-Hermann Clustering algorithms and Kohonen maps for symbolic data. (English summary)
— *see also* **Classification, clustering, and data analysis**, **2004d:62005**
Bohnacker, Ulrich (*with* Dehning, Lars; Franke, Jürgen; Renz, Ingrid) Textual analysis of customer statements for quality control and help desk support. (English summary) (*see* **2004d:62005**)
Bolland, Kim *see* **Sooriyarachchi, Marina Roshini et al.**

Bouton, Christopher M. L. S. (*with* Henry, George; Colantuoni, Carlo; Pevsner, Jonathan) DRAGON and DRAGON view: methods for the annotation, analysis, and visualization of large-scale gene expression data. (English summary) (*see* **2004e:62008**)
— *see also* **Colantuoni, Carlo et al.**, (**2004e:62008**)
Bouza Herrera, Carlos N. (*with* Schubert, Leo) The estimation of biodiversity and the characterization of the dynamics: an application to the study of a pest. (English and Portuguese summaries)
(Bozdogan, Hamparsum) *see* **Statistical data mining and knowledge discovery**, **2004j:62012**
Branković, Ljiljana (*with* Miller, Mirka; Širáň, Jozef) On range query usability of statistical databases. (English summary) **2004a:68019**
Braun, John *see* **Maindonald, John H.**
Braverman, Amy (*with* Fetzer, Eric; Eldering, Annmarie; Nittel, Silvia; Leung, Kelvin) Semi-streaming quantization for remote sensing data. (English summary)
Brazma, Alvis *see* **Vilo, Jaak et al.**, (**2004e:62008**)
Brito, Paula Hierarchical and pyramidal clustering for symbolic data. (English summary)
Brown, Philip J. *see* **Morris, Jeffrey S. et al.**
Bshouty, Nader H. (*with* Feldman, Vitaly) On using extended statistical queries to avoid membership queries. (English summary) (*see* **2004j:68005**)
BuHamra, Sana S. *see* **Al-Kandari, Noriah M. et al.**
Buja, Andreas *see* **Gous, Alan**
Burzykowski, Tomasz (*with* Molenberghs, Geert; Buyse, Marc) The validation of surrogate end points by using data from randomized clinical trials: a case-study in advanced colorectal cancer. (English summary)
Busse, Matthias On the determinants of core labour standards: the case of developing countries. (English summary)
Bustos, Benjamin *see* **Baeza-Yates, Ricardo et al.**, (**2004j:62005**)
Buyse, Marc *see* **Burzykowski, Tomasz et al.**
Cabrera, Javier *see* **Amaratunga, Dhammika**
Cardell, N. Scott *see* **Kolyshkina, Inna et al.**, (**2004k:62016**)
Carey, Vincent J. *see* **Gentleman, Robert**, (**2004e:62008**)
Carlin, John B. *see* **Gelman, Andrew et al.**, **2004j:62001**
Carmona, René A. ★ Statistical analysis of financial data in S-Plus.
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Carroll, Raymond J. *see* **Morris, Jeffrey S. et al.**
Chambers, Raymond L. *see* **Lin, Yan-Xia et al.**
Chang, Joseph C. Uncertainty and sensitivity of dispersion model results to meteorological inputs: two case studies. (English summary) (*see* **2004m:62011**)
Chávez, Edgar *see* **Baeza-Yates, Ricardo et al.**, (**2004j:62005**)
Chen, Yi-Xue *see* **Chien, Been-Chian et al.**
Chien, Been-Chian (*with* Lin, Zin-Long; Chen, Yi-Xue; Hong, Tzung-Pei) An algorithm of granulation on numeric attributes for association rules mining. (English summary)
(Christensen, Ole F.) *see* **Papaspiliopoulos, Omiros et al.**, (**2004g:62009**)
Chu, C.-H. Henry *see* **Noel, Steven et al.**, (**2004j:62005**)
Chu, Wesley W. (*with* Liu, Victor Zhenyu; Mao, Wenlei) Techniques for textual document indexing and retrieval via knowledge sources and data mining. (*see* **2004j:62005**)
Colantuoni, Carlo (*with* Henry, George; Bouton, Christopher M. L. S.; Zeger, Scott L.; Pevsner, Jonathan) SNOMAD: biologist-friendly web tools for the standardization and normalization of microarray data. (English summary) (*see* **2004e:62008**)
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Collett, David ★ Modelling binary data.
Cope, Leslie M. *see* **Irizarry, Rafael A. et al.**, (**2004e:62008**)
Cornford, Dan *see* **Csato, Lehel et al.**, (**2004m:65003**)
Csato, Lehel (*with* Cornford, Dan; Opper, Manfred) Data assimilation with sequential Gaussian processes. (English summary) (*see* **2004m:65003**)
D'Agostini, Giulio ★ Bayesian reasoning in data analysis. **2004f:62002**
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Dambis, A. K. (*with* Efremov, Yu. N.) Dating Ptolemy's star catalogue based on proper motions: the thousand-year-old problem solved. (Russian. English summary) **2004a:01002**
Das, Kalyan *see* **Biswas, Atanu**
Dasu, Tamraparni (*with* Johnson, Theodore) ★ Exploratory data mining and data cleaning. **2004e:62003**
Datta, Susmita (*with* Arnold, Jonathan) Some comparisons of clustering and classification techniques applied to transcriptional profiling data. (English summary)
Dehning, Lars *see* **Bohnacker, Ulrich et al.**, (**2004d:62005**)
Dewanji, Anup (*with* Ganguly, Krishna S.; Mohanto, Parth P.; Samanta, Tapas; Sinha, Bikas K.) A study of pulsed electro-magnetic field therapy for rheumatoid arthritis pateints: analysis of adjustment period data. (English summary)
Dijksterhuis, G. B. *see* **Gower, John C.**, **2004m:62005**
Diniz, Carlos Alberto Ribeiro *see* **Louzada Neto, Francisco**
Dobbin, Kevin K. (*with* Louis, Thomas A.) Accommodating stochastic departures from percentile invariance in causal models. (English summary)
Dolničar, Sara (*with* Leisch, Friedrich) Testing for structural change over time of brand attribute perceptions in market segments. (English summary) (*see* **2004j:62012**)
Döring, Christian *see* **Timm, Heiko et al.**
Drăghici, Sorin ★ Data analysis tools for DNA microarrays. **2004c:92011**
Drwal, Grzegorz *see* **Walichiewicz, Piotr et al.**
Dudoit, Sandrine (*with* Yang, Yee Hwa) Bioconductor *R* packages for exploratory analysis and normalization of cDNA microarray data. (English summary) (*see* **2004e:62008**)
Dzhafarov, Ehtibar N. Thurstonian-type representations for "same-different" discriminations: deterministic decisions and independent images. (English summary) **2004k:91166**
Edmonds, Jeff (*with* Gryz, Jarek; Liang, Dongming; Miller, Renée J.) Mining for empty spaces in large data sets. (English summary) **2004d:68027**
Efremov, Yu. N. *see* **Dambis, A. K.**, **2004a:01002**
Egan, D. *see* **Dalal, S. R. et al.**, (**2004h:62006**)
Eldering, Annmarie *see* **Braverman, Amy et al.**
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Ertöz, Levent (*with* Steinbach, Michael; Kumar, Vipin) Finding topics in collections of documents: a shared nearest neighbor approach. (*see* **2004j:62005**)
Evans, Jai *see* **Lemkin, Peter F. et al.**, (**2004e:62008**)
Faessel, Hélène M. *see* **White, Donald B. et al.**
Falk, Michael (*with* Marohn, Frank; Tewes, Bernward) ★ Foundations of statistical analyses and applications with SAS. **2004e:62002**
Feldman, Vitaly *see* **Bshouty, Nader H.**, (**2004j:68005**)
Fetzer, Eric *see* **Braverman, Amy et al.**
Fischer, Bernd[3] (*with* Schumann, Johann) AutoBayes: a system for generating data analysis programs from statistical models. (English summary) **2004f:62018**
Follmann, Dean A. *see* **Albert, Paul S.**
Franke, Jürgen *see* **Bohnacker, Ulrich et al.**, (**2004d:62005**)
Fridlyand, Jane *see* **Nelson, David O.**, (**2004d:62008**)
Fried, Roland *see* **Bernholt, Thorsten**, **2004g:68177**
Fujiwara, Takeshi *see* **Kobayashi, Ikunori et al.**
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Galimberti, Giuliano Hazard regression with time-dependent covariates: a proposal based on local maximum likelihood. (Italian. English and Italian summaries)
Ganguly, Krishna S. *see* **Dewanji, Anup et al.**
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— *see also* **Analysis of gene expression data**, **2004e:62008**; **Parmigiani, Giovanni et al.**, **2004e:62008** *and* (**2004e:62008**)
Gautier, Laurent *see* **Irizarry, Rafael A. et al.**, (**2004e:62008**)
(Gelfand, Alan E.) *see* **Papaspiliopoulos, Omiros et al.**, (**2004g:62009**)
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Gentleman, Robert (*with* Carey, Vincent J.) Visualization and annotation of genomic experiments. (English summary) (*see* **2004e:62008**)
Ghosh, Sujoy *see* **Liu, Li et al.**
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Gorman, Patricia A. *see* **Newton, Michael A. et al.**, (**2004g:62009**)
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Gower, John C. (*with* Dijksterhuis, G. B.) ★ Procrustes problems. **2004m:62005**
Greco, William R. *see* **White, Donald B. et al.**
Gryz, Jarek *see* **Edmonds, Jeff et al.**, **2004d:68027**
Guha, Sudipto (*with* Rastogi, Rajeev; Shim, Kyuseok) Techniques for clustering massive data sets. (*see* **2004j:62005**)
Gupta, Amar *see* **Sarma, Ravindra K. et al.**, (**2004j:62012**)
Gupta, Arjun K. *see* **Sy, Bon K.**, **2004k:62007**
Ha, Il Do (*with* Park, Tae Sung; Lee, Youngjo) Joint modelling of repeated measures and survival time data. (English summary)
Hawkins, Douglas M. *see* **Liu, Li et al.**
Hennig, Christian Clusters, outliers, and regression: fixed point clusters. (English summary) **2004f:62135**
Henry, George *see* **Bouton, Christopher M. L. S. et al.**, (**2004e:62008**) *and* **Colantuoni, Carlo et al.**, (**2004e:62008**)
Herrera, Norma *see* **Baeza-Yates, Ricardo et al.**, (**2004j:62005**)
Hiassat, M. (*with* Abbod, M. F.; Mort, N.) Using genetic programming to improve the group method of data handling in time series prediction. (English summary) (*see* **2004j:62012**)
Ho, Yu-Yun K. *see* **Dalal, S. R. et al.**, (**2004h:62006**)
Hong, Tzung-Pei *see* **Chien, Been-Chian et al.**
Horowitz, Joel L. (*with* Manski, Charles F.) Identification and estimation with incomplete data. (English summary) (*see* **2004f:62019**)
Horton, Nicholas J. (*with* Lipsitz, Stuart R.; Parzen, Michael) A potential for bias when rounding in multiple imputation. (English summary)
Høst, Gudmund Statistics and the environmental sciences: approaches to model combination. (English summary) (*see* **2004m:62011**)
Hu, Qing Jun (*with* Wu, Yi[1]) The method of selecting principal variables. (Chinese. English and Chinese summaries) **2004m:62143**
Hu, Yue-Qing *see* **Fung, Wing-Kam**, **2004k:62250**
Huber, Peter J. John W. Tukey's contributions to robust statistics. **2004c:62005**
Hulliger, Beat *see* **Béguin, Cédric**
Huttley, Gavin A. *see* **Wilson, Susan R.**
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Irizarry, Rafael A. (*with* Gautier, Laurent; Cope, Leslie M.) An *R* package for analyses of affymetric oligonucleotide arrays. (English summary) (*see* **2004e:62008**)
— *see also* **Analysis of gene expression data**, **2004e:62008**; **Parmigiani, Giovanni et al.**, **2004e:62008** *and* (**2004e:62008**)
(Jajuga, Krzysztof) *see* **Classification, clustering, and data analysis**, **2004d:62005**
James, Gareth M. *see* **Sugar, Catherine A.**, **2004h:62117**
Jiang, Ren Yan *see* **Murthy, D. N. Prabhakar et al.**, **2004h:62004**
Jin, Ping *see* **Wang, Qian et al.**
Johnson, Theodore *see* **Dasu, Tamraparni**, **2004e:62003**
Jones, Jason (*with* Stahl, Doug; Nichol, Michael; Azen, Stanley P.) Enabling clinically based knowledge discovery in pharmacy claims data: an application in bioinformatics. (English summary)
Juutilainen, Ilmari (*with* Röning, Juha) Heteroscedastic linear models for analysing process data. (English summary)
Kafadar, Karen (*with* Phang, Tzulip) Transformations, background estimation, and process effects in the statistical analysis of microarrays. (English summary)

Kapushesky, Misha *see* **Vilo, Jaak et al.**, (2004e:62008)
Karioti, V. *see* **Caroni, C.**
Karlaftis, Matthew G. *see* **Washington, Simon P. et al.**, **2004f:62004**
Katina, Stanislav Application of allometric shape analysis to fish growth with geometrical notes. (English summary)
Kemmeren, Patrick *see* **Vilo, Jaak et al.**, (2004e:62008)
Khan, Sohail Munawar *see* **Al-Kandari, Noriah M. et al.**
Khinkis, Leonid *see* **White, Donald B. et al.**
Kiers, Henk A. L. *see* **Giordani, Paolo**
Kikuchi, Tomoyoshi *see* **Kuroki, Manabu et al.**, **2004d:62012**
Kirkwood, Sandra Close The role of statistics in pharmacogenomics. (English summary)
Kobayashi, Ikunori (*with* Fujiwara, Takeshi; Nakano, Junji; Yamamoto, Yoshikazu) Extensibilities of a Java-based statistical system. (English summary)
Kogan, Jacob Computational information retrieval. (English summary) (*see* **2004f:62019**)
Kohn, Karsten (*with* Missong, Martin) Household budget data and welfare comparisons—a reconciliation. (English summary) (*see* **2004k:62015**)
Kolyshkina, Inna (*with* Steinberg, Dan; Cardell, N. Scott) Using data mining for modeling insurance risk and comparison of data mining and linear modeling approaches. (*see* **2004k:62016**)
Komiya, Yuriko *see* **Minami, Hiroyuki et al.**
Koyak, Robert An investigation of generalized raking in the synthetic estimation of population size. (English summary)
Kruse, Rudolf *see* **Timm, Heiko et al.**
Kshirsagar, Anant M. Growth and wear curves. (*see* **2004h:62006**)
Kumar, Vipin *see* **Ertöz, Levent et al.**, (2004j:62005)
Kumar Paul, Amrit (*with* Bhatia, V. K.) Effect of auxiliary traits on estimation of heritability of stayability. (English and Hindi summaries)
Kuroki, Manabu (*with* Kikuchi, Tomoyoshi; Miyakawa, Masami) The graphical condition for identifying arrows in recovering causal structure. (English summary) **2004d:62012**
Lallich, Stéphane *see* **Sebban, Marc et al.**, **2004e:68089**
Lan, Hong *see* **Lin, Yi[5] et al.**, (2004e:62008)
Latkowski, Rafał On decomposition for incomplete data. (English summary) **2004f:68162**
Lawry, Jonathan A new calculus for linguistic prototypes in data analysis. (English summary) (*see* **2004a:62013**)
Lee, Heow Pueh *see* **Wu, Chun Guo et al.**
Lee, Jae Kyun (*with* O'Connell, Michael) An S-PLUS library for the analysis and visualization of differential expression. (English summary) (*see* **2004e:62008**)
Lee, Youngjo *see* **Ha, Il Do et al.**
Leisch, Friedrich *see* **Dolničar, Sara**, (2004j:62012)
Lemkin, Peter F. (*with* Thornwall, Greogory C.; Evans, Jai) Microarray analysis using the microarray explorer. (English summary) (*see* **2004e:62008**)
Leung, Kelvin *see* **Braverman, Amy et al.**
Li, Cheng[1] (*with* Wong, Wing Hung) DNA-chip analyzer (dChip). (English summary) (*see* **2004e:62008**)
Li, Zhao *see* **Sung, Sam-Yuan et al.**, (2004j:62005)
Liang, Dongming *see* **Edmonds, Jeff et al.**, **2004d:68027**
Liang, Yan Chun *see* **Wu, Chun Guo et al.**
Liang, Yi *see* **Ma, Jiang Hong et al.**
Liao, Tim Futing Estimating household structure in ancient China by using historical data: a latent class analysis of partially missing patterns. (English summary)
Lim, S. P. *see* **Wu, Chun Guo et al.**
Lin, Wuzhong[1] *see* **Wu, Chun Guo et al.**
Lin, Yan-Xia (*with* Steel, David; Chambers, Raymond L.) Restricted quasi-score estimating functions for sample survey data. (English summary)
Lin, Yi[5] (*with* Nadler, Samuel T.; Lan, Hong; Attie, Alan D.; Yandell, Brian S.) Adaptive gene picking with microarray data: detecting important low abundance signals. (English summary) (*see* **2004e:62008**)
Lin, Zin-Long *see* **Chien, Been-Chian et al.**
Ling, Tok W. *see* **Sung, Sam-Yuan et al.**, (2004j:62005)
Lipsitz, Stuart R. *see* **Horton, Nicholas J. et al.**
Liu, Li (*with* Hawkins, Douglas M.; Ghosh, Sujoy; Young, S. Stanley) Robust singular value decomposition analysis of microarray data. (English summary)
Liu, Victor Zhenyu *see* **Chu, Wesley W. et al.**, (2004j:62005)
Louis, Thomas A. *see* **Dobbin, Kevin K.**
Louzada Neto, Francisco (*with* Diniz, Carlos Alberto Ribeiro) ★ Técnicas estatísticas em data mining. (Portuguese) [Statistical techniques in data mining]
Lu, Baofu *see* **Upadhyaya, B. R.**, (2004j:62012)
Lu, Yu Chu *see* **Wang, Qian et al.**
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62–09 Graphical methods

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Assunção, Renato *see* **Duczmal, Luiz**
Azzalini, Adelchi *see* **Capitanio, Antonella et al., 2004c:62057**
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Imhoff, Michael *see* **Fried, Roland et al., (2004a:62009)**
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Keller, Melanie *see* **Fried, Roland et al., (2004a:62009)**
Khinkis, Leonid *see* **White, Donald B. et al.**
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62A01 Foundational and philosophical topics

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62Cxx Decision theory [see also 90B50, 91B06; for game theory, see 91A35]

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62C25 Compound decision problems

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Martínez-Miranda, M. D. *see* **Rueda García, María del Mar et al.**
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McCabe, Brendan *see* **Harris, David**[3] **et al.**, **2004e:62018**
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McLaren, C. H. *see* **Steel, David**
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Meister, Kadri *see* **Traat, Imbi et al.**
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Mengersen, Kerrie L. (*with* Robert, Christian P.) IID sampling using self-avoiding population Monte Carlo: the pinball sampler. (English summary) **2004i:62022**
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Midha, Chand K. *see* **Agrawal, M. C.**
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Motta, Mariana R. *see* **Lopes Garcia, Nancy**
Mukherjee, Bhramar On sampling designs for integral estimation of a random process. (English summary) **2004f:62031**
(Müller, Peter[2]**)** *see* **Mengersen, Kerrie L.**, **2004i:62022**

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Narashimha Prasad, N. G. *see* **Lohr, Sharon L., 2004k:62037**
Nayak, Tapan K. Finding optimal estimators in survey sampling using unbiased estimators of zero. (English summary) **2004d:62034**
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Ng, Kai Wang *see* **Tan, Ming et al., 2004e:62022**
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Nusser, Harald *see* **Gasparini, Mauro et al., 2004m:62031**
Oleson, Jacob J. (*with* He, Chong Z.) Hierarchical Bayesian modeling in dichotomous processes in the presence of nonresponse. (English and French summaries)
Padmawar, V. R. On the assessment of an adapted estimation strategy. (English summary) **2004c:62022**
Pal, Sanghamitra *see* **Chaudhuri, Arijit, 2004i:62020**
Park, You Sung (*with* Kim, Kee Whan; Kim, N. Y.) Three-way balanced multi-level rotation sampling designs. (English summary) **2004m:62036**
Patil, Ganapati P. *see* **Banga, Senin et al., 2004c:62020**
Peeters, Ludo M. K. Estimating a random-coefficients sample-selection model using generalized maximum entropy. (English summary)
Perron, François (*with* Sinha, Bimal K.) Estimation of variance based on a ranked set sample. (English summary) **2004m:62037**
Pfeffermann, Danny (*with* Sverchkov, M. Yu.) Fitting generalized linear models under informative sampling. (English summary) (*see* **2004a:62008**)
Pollard, J. H. *see* **Buckland, Stephen T. et al., (2004m:62011)**
Ponti, Alessandra *see* **Di Zio, Marco et al.**
Prabhu Ajgaonkar, S. G. *see* **Shende, P. S.**
Prada-Sánchez, José Manuel *see* **Lombardía, M. J. et al., 2004m:62034**
Pritchard, Geoffrey (*with* Zakeri, Golbon) Stochastic optimization: excess cost and importance sampling. (English summary) **2004d:62035**
Puertas, Sergio Martínez *see* **Singh, Sarjinder**
Pumo, B. *see* **Blanke, Delphine, 2004a:62027**
Rahme, Elham *see* **Dendukuri, Nandini et al.**
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Rao, T. J. (*with* Sinha, Bikas K.; Srivenkataramana, T.) On order relations between selection and inclusion probabilities in RHC sampling scheme. (English summary) **2004m:62038**
Rattihalli, R. N. *see* **Gadre, M. P.**
Redman, Mary *see* **Brumback, Babette et al., 2004d:62027**
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Rivest, Louis-Paul (*with* Daigle, Gaétan) Loglinear models for the robust design in mark-recapture experiments. (English and French summaries)
Robert, Christian P. *see* **Mengersen, Kerrie L., 2004i:62022**
Román, Y. *see* **Rueda García, María del Mar et al.**
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Safiquzzaman, Md. *see* **Roy, Debesh**
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Samawi, Hani M. (*with* Siam, Mahmoud I.) Ratio estimation using stratified ranked set sample. (English summary) **2004e:62021**
— *see also* **Ahmed, Md. Saleh et al.**
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Sarikavanij, Sukuman (*with* Tiensuwan, Montip) On two novel applications of ranked set sampling. (English summary)
Scanu, Mauro *see* **Di Zio, Marco et al.**
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Schmitz, Norbert *see* **Konopka, Jörg, 2004b:62019***and* **2004c:62021**
Scott, Alastair (*with* Wild, Chris) Fitting logistic regression models in case-control studies with complex sampling. (*see* **2004a:62008**)
Seaman, John W., Jr. *see* **Stamey, James D. et al.**
Sen, Kanwar (*with* Agarwal, Manju Lata; Chakraborty, Sonali) Generalized Polya-Eggenberger model of order k via lattice path approach. (English summary) **2004c:62023**
Shahbaz, Muhammad Qaiser (*with* Hanif, Muhammad) Modification of Murthy's estimator using some selection procedures for unequal probability sampling and without replacement. (English summary)
Sharma, D. P. *see* **Sud, U. C. et al.**
Shende, P. S. (*with* Prabhu Ajgaonkar, S. G.) A note on linear unbiased invariant estimator for some classes of estimators. (English and Hindi summaries)
Shi, Ning-Zhong *see* **Guo, Jianhua et al.**
Shu, M. H. Increasing sampling efficiency in stochastic process based on the Erlang sampling procedure. (English summary)
Shukla, Diwakar (*with* Bankey, Ajay; Trivedi, Manish) Estimation in post-stratification using prior information and grouping strategy. (English and Hindi summaries)
Shvets, V. V. On asymptotic behaviour of modelling time in the importance sampling method. (English summary) **2004d:62036**
Siam, Mahmoud I. *see* **Samawi, Hani M., 2004e:62021**
Sijtsma, Klaas *see* **Hemker, Bas T. et al., 2004a:62029**
Singer, Julio Motta *see* **Stanek, Edward J., III et al.**
Singh, Housila Prasad (*with* Tailor, Rajesh) Predictive estimation of finite population mean in two phase sampling with known coefficient of variation of second auxiliary variable. (English summary)
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Singh, R. Karan *see* **Manisha**
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Sinha, Bikas K. *see* **Rao, T. J. et al., 2004m:62038**
Sinha, Bimal K. *see* **Perron, François, 2004m:62037**
Skibicki, Marcin Maximization of measure of allowable sample sizes region in stratified sampling. (English summary) (*see* **2004d:62005**)
Skinner, Chris J. (*with* Elliot, M. J.) A measure of disclosure risk for microdata. (English summary) **2004c:62024**
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— (*with* Holmes, D. J.) Random effects models for longitudinal survey data. (*see* **2004a:62008**)
Sobol′, I. M. (*with* Myshetskaya, E. E.) Modelling correlated random variables. (English summary) **2004d:62037**
Son, Chang-Kyoon (*with* Hong, Ki-Hak; Lee, Gi-Sung) A study on auxiliary variable selection in unit nonresponse calibration. (Korean. English and Korean summaries) **2004d:62038**
Srivastava, Anil K. *see* **Sud, U. C. et al.**
Srivastava, S. Rani *see* **Khare, B. B., 2004d:62031**
Srivenkataramana, T. *see* **Rao, T. J. et al., 2004m:62038**
Stadje, Wolfgang *see* **Bar-Lev, Shaul K. et al., 2004d:62026**
Stamey, James D. (*with* Seaman, John W., Jr.; Young, Dean M.) Bayesian sample size determination for estimating a Poisson rate with underreported data. (English summary)
Stanek, Edward J., III (*with* Singer, Julio Motta; Lencina, Viviana Beatriz) A unified approach to estimation and prediction under simple random sampling. (English summary)
Stasny, Elizabeth A. *see* **MacEachern, Steven N. et al.**
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Strijbosch, L. W. G. *see* **Moors, J. J. A.**
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Su, Chun-Lung *see* **Johnson, Wesley O. et al.**
Sud, U. C. (*with* Srivastava, Anil K.; Sharma, D. P.) On a biased estimator in repeat surveys. (English and Hindi summaries)
Sun, Shan Ze *see* **Yang, Bao Hui, 2004b:62023**
Suresh, K. K. (*with* Devaarul, S.) Maximum acquired reliability sampling (MARS) plan. (English summary)
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Sverchkov, M. Yu. *see* **Chambers, Raymond L. et al., (2004a:62008)***and* **Pfeffermann, Danny, (2004a:62008)**
Swartz, Tim B. *see* **Evans, Michael John, (2004j:62008)**
Taconeli, Cesar Augusto (*with* Barreto, Maria Cecília Mendes) Confidence intervals for the population mean using ranked-set sampling. (Portuguese. English and Portuguese summaries)
Taillie, Charles *see* **Banga, Senin et al., 2004c:62020**
Tailor, Rajesh *see* **Singh, Housila Prasad**
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2004e:62022

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Thönnes, Elke *see* **Lund, Jens**

Thornton, Bill *see* **Gupta, Sat**

Tian, Guo-Liang *see* **Tan, Ming et al.**, **2004e:62022**

Tiensuwan, Montip *see* **Sarikavanij, Sukuman**

Toman, Blaza *see* **Katsis, Athanassios**, (**2004f:62019**)

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Tranmer, M. *see* **Steel, David et al.**, (**2004a:62008**)

Treppa, Antje *see* **Brusch, Michael et al.**, (**2004d:62005**)

Trivedi, Manish *see* **Shukla, Diwakar et al.**

Troendle, James F. (*with* Yu, Kai F.) Estimation of sample size for reference interval studies. (English summary)

Ullah, Aman *see* **Rilstone, Paul**, (**2004k:62018**)

Vijayan, Kaipillil *see* **Rao, J. N. K.**, (**2004j:62011**)

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Wang, Chih-Li *see* **Chang, Horng-Jinh et al.**

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Wild, Chris *see* **Scott, Alastair**, (**2004a:62008**)

Williamson, John M.[2] *see* **Lin, Hung-Mo et al.**

Williamson, Robert C. *see* **Mendelson, Shahar**, (**2004j:68006**)

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Wolfe, Douglas A. *see* **MacEachern, Steven N. et al.** *and* **Nahhas, Ramzi W. et al.**

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Wu, Jane *see* **Lakatos, Edward**, (**2004j:62011**)

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Wywiał, Janusz On conditional sampling strategies. (English summary)

Yang, Bao Hui (*with* Sun, Shan Ze) The effect and double adjustment of the condition effect in split panel surveys. (Chinese. English and Chinese summaries) **2004b:62023**

Yang, Zhen Hai *see* **Zhang, Jie**[6]

Young, Dean M. *see* **Stamey, James D. et al.**

Yu, Kai F. *see* **Troendle, James F.**

Zacharias, Eleftherios *see* **Deltas, George**

Zacks, Shelemyahu In the footsteps of Basu: the predictive modelling approach to sampling from finite population. (English summary) **2004d:62039**

Zakeri, Golbon *see* **Pritchard, Geoffrey**, **2004d:62035**

Zhang, De Ran (*with* Mao, Shi Song) Testing for upper and lower outliers in exponential samples. (Chinese. English and Chinese summaries) **2004m:62039**

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Zheng, Gang[1] *see* **Al-Saleh, Mohammad Fraiwan**, **2004a:62026** *and* **2004i:62019**

Zöllner, Andreas[2] *see* **Gaffke, Norbert**, **2004m:62030**

Zou, Guohua (*with* Li, Yong[7]) On variance estimation of the ratio estimator under two-phase sampling. (English summary) **2004b:62024**

(Zucker, David M.) *see* **Julious, Steven**

Items with secondary classifications in 62D05

Aanes, Sondre *see* **Hirst, David et al.**

Abu-Dayyeh, Walid A. *see* **Samawi, Hani M.**

Aggoun, Lakhdar (*with* Benkherouf, Lakdere; Benmerzouga, Ali) Recursive estimation of inventory quality classes using sampling. (English summary) **2004j:90011**

Ahmadi, Jafar (*with* Arghami, N. R.) Comparing the Fisher information in record values and iid observations. **2004k:62023**

Akaho, Shotaro *see* **Tsuda, Koji et al.**

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Arghami, N. R. *see* **Ahmadi, Jafar**, **2004k:62023**

Asai, Kiyoshi[2] *see* **Tsuda, Koji et al.**

Baddeley, Adrian *see* **Cabo, Annoesjka**, **2004c:60025**

Bandyopadhyay, Uttam (*with* Biswas, Atanu) Test of Bernoulli success probability in inverse sampling for nearer alternatives using adaptive allocation. (English summary) **2004i:62034**

Barnett, Vic ★ Environmental statistics. **2004k:62001**

Barreto, Maria Cecilia Mendes *see* **Cesário, Luciana Cristina**

Battaglia, Michael P. *see* **Smith, Philip J. et al.**

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Benkherouf, Lakdere *see* **Aggoun, Lakhdar et al.**, **2004j:90011**

Benmerzouga, Ali *see* **Aggoun, Lakhdar et al.**, **2004j:90011**

Berger, Yves G. (*with* Tirari, Mohammed E. H.; Tillé, Yves) Towards optimal regression estimation in sample surveys. (English summary) **2004e:62040**

Berry, Donald A. *see* **Cheng, Yi**[2] **et al.**, **2004j:62217**

Bhoj, Dinesh S. Estimation of parameters of the Laplace distribution using ranked set sampling procedures. (English summary) (*see* **2004a:62006**)

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Biswas, Atanu *see* **Bandyopadhyay, Uttam**, **2004i:62034**

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Boyle, Kerrie E. *see* **Jones, Shelton M. et al.**, (**2004k:62018**)

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Bucher, Christian *see* **Macke, Michael**, **2004j:70050**

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Cabo, Annoesjka (*with* Baddeley, Adrian) Estimation of mean particle volume using the set covariance function. (English summary) **2004c:60025**

Carlstein, Edward *see* **Sherman, Michael**

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Chou, Youn-Min *see* **Mason, Robert L. et al.**, (**2004h:62006**)

Chueh, Yvonne C. M. Efficient stochastic modeling for large and consolidated insurance business: interest rate sampling algorithms. (English summary) **2004d:62358**

Couper, Mick P. *see* **Groves, Robert M. et al.**

Crank, Keith (*with* Fill, James Allen) Interruptible exact sampling in the passive case. (English summary) **2004h:60110**

Cukic, Bojan *see* **Boland, Philip J. et al.**, **2004j:60039**

Cumberland, William G. *see* **Lui, Kung-Jong**

Daimon, Takashi (*with* Goto, Masashi) Optimum design of sampling times for inference of compartment models based on curvature. (English summary)

Daniels, Danni *see* **Smith, Philip J. et al.**

von Davier, Alina A. (*with* Holland, Paul W.; Thayer, Dorothy T.) ★ The kernel method of test equating. **2004j:91002**

DeMets, David L. *see* **Kosorok, Michael R. et al.**

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Dobra, Adrian (*with* Hans, C. M.; Jones, Beatrix; Nevins, Joseph R.; Yao, Guang; West, Mike) Sparse graphical models for exploring gene expression data. (English summary)

Donnelly, Peter *see* **Stephens, Matthew**, **2004i:62181**

Dukes, Peter (*with* Ling, Alan C. H.) A combinatorial error bound for t-point-based sampling. (English summary) **2004j:05034**

Ebneshahrashoob, Morteza (*with* Gao, Tangan; Sobel, Milton) Double window acceptance sampling. (English summary)

Endrikat, Jan *see* **Benda, Norbert et al.**

Englin, Jeffrey *see* **Moeltner, Klaus**

Feichtinger, Hans Georg (*with* Pandey, Sheel Sindhu) Recovery of band-limited functions on locally compact abelian groups from irregular samples. (English summary) **2004f:94017**

Feller, J. *see* **Mergenthaler, W. et al.**

Fill, James Allen *see* **Crank, Keith**, **2004h:60110**

Follmann, Dean A. *see* **Proschan, Michael A.**

Fowler, Floyd J., Jr. *see* **Groves, Robert M. et al.**

Gadbury, Gary L. (*with* Iyer, Hari K.; Albert, Jeffrey M.) Individual treatment effects in randomized trials with binary outcomes. (English summary) **2004k:62251**

Gao, She Sheng (*with* Zhang, Jingmei; Zhou, Tao[2]) Law of large numbers for sample mean of random weighting estimate. (English summary) **2004h:60041**

Gao, Tangan *see* **Ebneshahrashoob, Morteza et al.**

van der Genugten, B. B. *see* **Raats, V. M. et al.**, **2004k:62255**

Gerlinger, Christoph *see* **Benda, Norbert et al.**

Girardin, Valerie (*with* Rachdi, Mustapha) Spectral density estimation from random sampling for multiplicative stationary processes. (English summary) **2004m:62097**

Goia, C. M. *see* **Bellhouse, D. R. et al.**, (**2004a:62008**)

Goto, Masashi *see* **Hamasaki, Toshimitsu**, **2004d:62091** *and* **Daimon, Takashi**

Green, Peter J. *see* **Nott, David J.**
Groves, Robert M. (*with* Fowler, Floyd J., Jr.; Couper, Mick P.; Lepkowski, James M.; Singer, Eleanor; Tourangeau, Roger) ★Survey methodology.
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Guerra, Rudy *see* **Han, Jian**, (**2004d:62008**)
Guhr, Thomas (*with* Kälber, Bernd) A new method to estimate the noise in financial correlation matrices. (English summary) **2004h:91053**
Hall, F. R. *see* **Zhang, Xutuan et al.**, (**2004i:00008**)
Halpern, Jerry *see* **Brown, Byron Wm., Jr.**
Hamasaki, Toshimitsu (*with* Goto, Masashi) Statistical inferences of grouped data combined with ungrouped data from the power-normal distribution. (English summary) **2004d:62091**
Han, Jian (*with* Guerra, Rudy) Cost efficiency of genetic linkage studies using mixtures of selected sib-pairs. (English summary) (*see* **2004d:62008**)
Hanif, Muhammad *see* **Shahbaz, Muhammad Qaiser et al.**
Hans, C. M. *see* **Dobra, Adrian et al.**
Hartinger, Jürgen (*with* Predota, Martin) Pricing Asian options in the hyperbolic model: a fast quasi-Monte Carlo approach. (English summary) **2004d:62362**
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(Heeringa, Steven) *see* **Kish, Leslie**, **2004e:01064**
Hidaka, Noriko *see* **Iwasaki, Manabu**, **2004c:62080**
Hirst, David (*with* Aanes, Sondre; Storvik, Geir; Huseby, Ragnar Bang; Tvete, Ingunn Fride) Estimating catch at age from market sampling data by using a Bayesian hierarchical model. (English summary)
Hoaglin, David C. *see* **Smith, Philip J. et al.**
Holland, Paul W. *see* **von Davier, Alina A. et al.**, **2004j:91002**
Hu, Fei Fang (*with* Rosenberger, William F.) Optimality, variability, power: evaluating response-adapative randomization procedures for treatment comparisons. (English summary)
Huang, Wên T'ao (*with* Lin, Yu-Pin) Bayesian sampling plans for exponential distribution based on uniform random censored data. (English summary) **2004j:62208**
Huseby, Ragnar Bang *see* **Hirst, David et al.**
Ismatullaev, Shukhrat A. *see* **Mirakhmedov, Sherzod A. et al.**, **2004f:60051**
Iwasaki, Manabu (*with* Hidaka, Noriko) Determination of sample sizes for use in constructing confidence intervals for a binomial parameter. (English summary) **2004c:62080**
Iyer, Hari K. *see* **Gadbury, Gary L. et al.**, **2004k:62251**
Jackson, Christopher H. (*with* Sharples, Linda D.) Models for longitudinal data with censored changepoints. (English summary)
Jerrum, Mark ★Counting, sampling and integrating: algorithms and complexity. **2004a:68044**
Jiang, Jiming (*with* Lahiri, P.; Wan, Shu-Mei) A unified jackknife theory for empirical best prediction with M-estimation. (English summary) **2004b:62115**
Jones, Beatrix *see* **Dobra, Adrian et al.**
Jones, Shelton M. (*with* Sutton, Brian C.; Boyle, Kerrie E.) Survey methodology for studying substance use prevention programs in schools. (English summary) (*see* **2004k:62018**)
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Kälber, Bernd *see* **Guhr, Thomas**, **2004h:91053**
(Kalton, Graham) *see* **Kish, Leslie**, **2004e:01064**
Kerestecioğlu, Feza (*with* Tokat, Sezai) Nonuniform sampling for detection of abrupt changes. (English summary)
Kibble, K. *see* **Zhang, Xutuan et al.**, (**2004i:00008**)
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Lahiri, P. *see* **Butar, Ferry Butar**, **2004b:62013***and* **Jiang, Jiming et al.**, **2004b:62115**
Lampinen, Jouko *see* **Vehtari, Aki**, (**2004g:62009**)
Ledford, J. S. *see* **Mergenthaler, W. et al.**
Lee, Seung-Chun (*with* Park, You Sung) An empirical Bayesian estimation of monthly level and change in two-way balanced rotation sampling. (English summary)
Leobacher, Gunther (*with* Pillichshammer, Friedrich) A method for approximate inversion of the hyperbolic CDF. (English summary) **2004b:65011**
Lepkowski, James M. *see* **Groves, Robert M. et al.**
Lin, Yu-Pin *see* **Huang, Wên T'ao**, **2004j:62208**
Ling, Alan C. H. *see* **Dukes, Peter**, **2004j:05034**
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Liu, Aiyi (*with* Schisterman, Enrique F.; Teoh, Eric) Sample size and power calculation in comparing diagnostic accuracy of biomarkers with pooled assessments. (English summary)
Loh, Wei-Liem On the asymptotic distribution of scrambled net quadrature. (English summary) **2004m:62042**
Louis, Thomas A. *see* **Dobbin, Kevin K.**
Lui, Kung-Jong (*with* Cumberland, William G.) Power and sample size calculation for 2×2 tables under multinomial sampling with random loss. (English summary)
Luo, Hua *see* **Wu, Zhang**, **2004d:90022**
Macke, Michael (*with* Bucher, Christian) Importance sampling for randomly excited dynamical systems. (English summary) **2004j:70050**
Mason, Robert L. (*with* Chou, Youn-Min; Young, John C.) Effective sample sizes for T^2 control charts. (*see* **2004h:62006**)
Mauersberg, B. *see* **Mergenthaler, W. et al.**
McNeney, Brad *see* **Breslow, Norman E. et al.**, **2004m:62103**
Mealli, Fabrizia (*with* Pudney, Stephen) Applying heterogeneous transition models in labour economics: the role of youth training in labour market transitions. (*see* **2004a:62008**)
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van der Meulen, Egbert A. *see* **Benda, Norbert et al.**
Mihsein, M. *see* **Zhang, Xutuan et al.**, (**2004i:00008**)
Mingoti, Sueli A. A note on the sample size required in sequential tests for the generalized binomial distribution. (English summary)
Mirakhmedov, Sherzod A. (*with* Ismatullaev, Shukhrat A.; Saidova, Odila A.) The estimation of the remainder in the CLT for ordered statistics in the scheme of sampling without replacement. (English summary) **2004f:60051**
Moeltner, Klaus (*with* Englin, Jeffrey) Choice behavior under time-variant quality: state dependence versus "play-it-by-ear" in selecting ski resorts. (English summary)
Molenberghs, Geert *see* **Renard, Didier**, (**2004g:62010**)
Moors, J. J. A. *see* **Raats, V. M. et al.**, **2004k:62255**
Müller, Peter^2 *see* **Quintana, Fernando A.**
Nevins, Joseph R. *see* **Dobra, Adrian et al.**
Nott, David J. (*with* Green, Peter J.) Bayesian variable selection and the Swendsen-Wang algorithm. (English summary)
O'Grady, W. T., Jr. *see* **Mergenthaler, W. et al.**
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Pandey, Sheel Sindhu *see* **Feichtinger, Hans Georg**, **2004f:94017**
Park, You Sung *see* **Lee, Seung-Chun**
Patil, Ganapati P. (*with* Taillie, Charles) Contemporary challenges and recent advances in ecological and environmental sampling. (English summary) (*see* **2004a:62006**)
Paul, Anand Characterizations of the uniform distribution via sample spacings and nonlinear transformations. (English summary) **2004h:60018**
Paulsen, Jostein (*with* Rasmussen, Bo Normann) Simulating ruin probabilities for a class of semimartingales by importance sampling methods. (English summary) **2004e:60074**
Perone Pacifico, Marco *see* **De Santis, Fulvio et al.**
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Pham-Gia, Thu (*with* Tran Loc Hung) Bayesian estimation under estimation constraint. (English summary) **2004j:62018**
Pillichshammer, Friedrich *see* **Leobacher, Gunther**, **2004b:65011**
Pogány, Tibor K. Partial error-free polynomial regression. (English summary) **2004j:62084**
Predota, Martin *see* **Hartinger, Jürgen**, **2004d:62362**
Proschan, Michael A. (*with* Follmann, Dean A.) A permutation approach to the Behrens-Fisher problem. (English summary)
Pudney, Stephen *see* **Mealli, Fabrizia**, (**2004a:62008**)
Puertas, Sergio Martínez *see* **Singh, Housila Prasad et al.**
Quintana, Fernando A. (*with* Müller, Peter^2) Optimal sampling for repeated binary measurements. (English and French summaries)
Raats, V. M. (*with* van der Genugten, B. B.; Moors, J. J. A.) A general model for repeated audit controls using monotone subsampling. (English summary) **2004k:62255**
Rachdi, Mustapha *see* **Girardin, Valerie**, **2004m:62097**
Rao, J. N. K. (*with* Thomas, D. Roland) Analysis of categorical response data from complex surveys: an appraisal and update. (*see* **2004a:62008**)
— *see also* **Smith, Philip J. et al.**
Rasmussen, Bo Normann *see* **Paulsen, Jostein**, **2004e:60074**
Renard, Didier (*with* Molenberghs, Geert) Multilevel modeling of complex survey data. (*see* **2004g:62010**)
Roberts, Georgia R. *see* **Binder, David A.**, (**2004a:62008**)
Romain, Yves Perturbation of functional tensors with applications to covariance operators. (English summary) **2004d:47047**
Rosenberger, William F. *see* **Hu, Fei Fang**
Royle, J. Andrew N-mixture models for estimating population size from spatially replicated counts. (English and French summaries)
Rubinstein, R. Y. *see* **Kroese, D. P.**
Saidova, Odila A. *see* **Mirakhmedov, Sherzod A. et al.**, **2004f:60051**
Samawi, Hani M. (*with* Abu-Dayyeh, Walid A.) More powerful sign test using median ranked set sample: finite sample power comparison. (English summary)
Sambucini, Valeria *see* **De Santis, Fulvio et al.**
Samiuddin, Mohammad *see* **Shahbaz, Muhammad Qaiser et al.**
Schisterman, Enrique F. *see* **Liu, Aiyi et al.**
Shahbaz, Muhammad Qaiser (*with* Hanif, Muhammad; Samiuddin, Mohammad) On some estimators in unequal probability sampling. (English summary)
— (*with* Hanif, Muhammad) Variance formulas for Horvitz-Thompson estimator using first order inclusion probabilities. (English summary)
Shapiro, Alexander Monte Carlo sampling methods. (English summary)
Sharples, Linda D. *see* **Jackson, Christopher H.**
Shaw, Chad A. *see* **Olofsson, Peter**
Sherman, Michael (*with* Carlstein, Edward) Confidence intervals based on estimators with unknown rates of convergence. (English summary)
Shi, Yuanjun *see* **Kosorok, Michael R. et al.**
Singer, Eleanor *see* **Groves, Robert M. et al.**
Singh, Abhishek *see* **Sisodia, B. V. S.**
Singh, Harshinder *see* **Boland, Philip J. et al.**, **2004j:60039**
Singh, Housila Prasad (*with* Singh, Sarjinder; Puertas, Sergio Martínez) Ratio type estimators for the median of finite populations. (English summary)

Singh, Randhir Application of remote sensing technology for crop yield estimation. (English summary)
Singh, Sarjinder *see* **Singh, Housila Prasad et al.**
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Sisodia, B. V. S. (*with* Singh, Abhishek) On composite estimation in repeated surveys under super population model. (English summary)
Skinner, Chris J. Introduction to Part B [Categorical response data]. (*see* **2004a:62008**)
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Sriram, T. N. *see* **Wei, Xinyu**
Stafford, James E. *see* **Bellhouse, D. R. et al.**, (**2004a:62008**)
Stephens, Matthew (*with* Donnelly, Peter) Ancestral inference in population genetics models with selection (with discussion). (English summary) **2004i:62181**
Storvik, Geir *see* **Hirst, David et al.**
Stuehler, L. J. *see* **Mergenthaler, W. et al.**
Su, Fusheng *see* **Cheng, Yi[2] et al.**, **2004j:62217**
Sugden, Roger A. *see* **Pettit, Lawrence I.**, (**2004g:62009**)
Sutton, Brian C. *see* **Jones, Shelton M. et al.**, (**2004k:62018**)
Szegedy, Mario *see* **Pach, János**, **2004m:52010**
Taillie, Charles *see* **Patil, Ganapati P.**, (**2004a:62006**)
Tang, Nian-Sheng Sample size determination for testing nonzero difference of two proportions in matched-pair design. (English and Chinese summaries)
Teoh, Eric *see* **Liu, Aiyi et al.**
Thayer, Dorothy T. *see* **von Davier, Alina A. et al.**, **2004j:91002**
Thomas, D. Roland *see* **Rao, J. N. K.**, (**2004a:62008**)
Thompson, Mary E. *see* **Chen, Jiahua et al.**
Thorne, Natalie P. *see* **Yang, Yee Hwa**, (**2004d:62008**)
Tillé, Yves *see* **Berger, Yves G. et al.**, **2004e:62040**
Tirari, Mohammed E. H. *see* **Berger, Yves G. et al.**, **2004e:62040**
Tokat, Sezai *see* **Kerestecioğlu, Feza**
Tourangeau, Roger *see* **Groves, Robert M. et al.**
Tran Loc Hung *see* **Pham-Gia, Thu**, **2004j:62018**
Tsaban, Boaz Permutation graphs, fast forward permutations, and sampling the cycle structure of a permutation. (English summary) **2004e:68076**
Tsuda, Koji (*with* Akaho, Shotaro; Asai, Kiyoshi[2]) The *em* algorithm for kernel matrix completion with auxiliary data. (English summary)
Tvete, Ingunn Fride *see* **Hirst, David et al.**
Vehtari, Aki (*with* Lampinen, Jouko) Expected utility estimation via cross-validation. (English summary) (*see* **2004g:62009**)
Vempala, Santosh *see* **Kalai, Adam**, **2004h:91057**
Veréb, K. *see* **Kormos, J.**
Vershynin, Roman *see* **Mendelson, Shahar**, (**2004j:68006**)
Wan, Shu-Mei *see* **Jiang, Jiming et al.**, **2004b:62115**
Wei, Xinyu (*with* Sriram, T. N.) Interval estimation approach to counting by weighing: a sequential scheme. (English summary)
Wellner, Jon A. *see* **Breslow, Norman E. et al.**, **2004m:62103**
West, Mike *see* **Dobra, Adrian et al.**
Wildner, R. *see* **Bosch, V.**
Wu, Changbao Empirical likelihood method for finite populations. (English summary) (*see* **2004k:62018**)
— *see also* **Chen, Jiahua et al.**
Wu, Hulin *see* **Chen, Jianwei et al.**
Wu, Zhang (*with* Luo, Hua) Three-triplet *np* control charts. (English summary) **2004d:90022**
Yang, Lu Yuan (*with* Yu, Miao Zhi; Zhai, Jing) The research on the sampling properties of the coefficient of determination. (Chinese. English and Chinese summaries) **2004b:62086**
Yang, Yee Hwa (*with* Thorne, Natalie P.) Normalization for two-color cDNA microarray data. (English summary) (*see* **2004d:62008**)
Yang, Zhen Hai *see* **Zhang, Jie[6]**
Yao, Guang *see* **Dobra, Adrian et al.**
Young, John C. *see* **Mason, Robert L. et al.**, (**2004h:62006**)
Yu, Ke Ming *see* **Zhang, Jin[1]**
Yu, Miao Zhi *see* **Yang, Lu Yuan et al.**, **2004b:62086**
Zhai, Jing *see* **Yang, Lu Yuan et al.**, **2004b:62086**
Zhang, Jie[6] (*with* Yang, Zhen Hai) A domain-transformation acceptance-rejection method and its application to beta variates. (Chinese. English and Chinese summaries)
Zhang, Jin[1] (*with* Yu, Ke Ming) The null distribution of the likelihood-ratio test for two upper outliers in a gamma sample. (English summary)
Zhang, Jingmei *see* **Gao, She Sheng et al.**, **2004h:60041**
Zhang, Xutuan (*with* Mihsein, M.; Hall, F. R.; Kibble, K.) Using asymptotic important sampling to the tail model in quantitative risk assessment. (English summary) (*see* **2004i:00008**)
Zhou, Haibo *see* **Chen, Jianwei et al.**
Zhou, Tao[2] *see* **Gao, She Sheng et al.**, **2004h:60041**

Items listed otherwise than by author

Collected Works:
Kish, Leslie *see* **Kish, Leslie**, **2004e:01064**

62Exx Distribution theory [see also 60Exx]

62E10 Characterization and structure theory

Abdel-All, Nassar H. (*with* Mahmoud, M. A. W.; Abd-Ellah, H. N.) Geometrical properties of Pareto distribution. (English summary) **2004i:62024**
Abd-Ellah, H. N. *see* **Abdel-All, Nassar H. et al.**, **2004i:62024**
del Aguila, Yolanda *see* **Pakes, Anthony G. et al.**, **2004f:62040**
Ahmad, Abd EL-Baset A. Characterizations of finite mixtures using moments and conditional moments of order statistics. (English summary) **2004i:62025**
Ahmad, Munir *see* **Roohi, Ayesha**
Akahira, Masafumi *see* **Hida, Eisuke**
Alexander, Daniel C. *see* **Jansons, Kalvis M.**
Al-Mutairi, D. K. *see* **Ghitany, M. E.**, **2004d:62046**
Al-Saqabi, B. N. (*with* Kalla, Shyam L.; Vũ Kim Tuấn) Unified probability density function involving a confluent hypergeometric function of two variables. (English summary) **2004h:62020**
Alvo, M. *see* **Ratnarajah, T. et al.**
Angus, John E. Convergence rates in approximating a compound distribution. (English summary) **2004k:62038**
Antipov, M. V. A congruence operator in the modeling of continuous distributions. (Russian. Russian summary) **2004f:62032**
Asadi, Majid On the multivariate mean residual life function and multivariate hazard measure. (English summary) **2004e:62023**
— On the closure properties of hazard measure and the mean residual life orderings based on scale mixtures. (English summary) **2004j:62022**
Athar, Haseeb *see* **Khan, Abdul Hamid**, **2004a:62036**
van Aubel, Andrea (*with* Gawronski, Wolfgang) Analytic properties of noncentral distributions. (English summary)
Bairamov, Ismihan (*with* Kotz, Samuel) On a new family of positive quadrant dependent bivariate distributions. (English summary) **2004f:62033**
— (*with* Kotz, Samuel; Kozubowski, Tomasz J.) A new measure of linear local dependence. (English summary) **2004d:62040**
Bar-Lev, Shaul K. (*with* Pommeret, Denys) A note on natural exponential families with cuts. (English summary) **2004b:62025**
Barlevy, Gadi *see* **Nagaraja, H. N.**, **2004h:62025**
Belomestny, Denis Constraints on distributions imposed by properties of linear forms. (English summary) **2004d:62041**
Belopol′skaya, Ya. I. (*with* Vol′kovich, V. È.; Klebanov, Lev B.) Characterization of elliptic distributions. (Russian. English and Russian summaries) **2004d:62042**
Bening, Vladimir E. *see* **Wu, Da**
Berleant, Daniel (*with* Zhang, Jianzhong) Using Pearson correlation to improve envelopes around the distributions of functions. (English summary)
Bhattacharjee, Manish C. (*with* Ravi, Sreenivasan; Vasudeva, Rasbagh; Mohan, N. R.) New order preserving properties of geometric compounds. (English summary) **2004e:62024**
Bickel, Peter J. (*with* Sakov, Anat) Equality of types for the distribution of the maximum for two values of n implies extreme value type. (English summary) **2004i:62026**
Bladt, Mogens (*with* Neuts, Marcel F.) Matrix-exponential distributions: calculus and interpretations via flows. (English summary) **2004b:62026**
Block, Henry W. (*with* Savits, Thomas H.) The shape of failure rate mixtures. (English summary)
Borovkov, A. A. On subexponential distributions and the asymptotics of the distribution of the maximum of sequential sums. (Russian. Russian summary) **2004a:62031**
Boyle, Phelim P. (*with* Lin, Xiaodong) Optimal portfolio selection with transaction costs. (English summary) **2004c:62025**
Branco, Márcia D. *see* **Sahu, Sujit K. et al.**, **2004h:62027**
Brys, G. (*with* Hubert, Mia; Struyf, A.) A comparison of some new measures of skewness. (English summary) (*see* **2004a:62010**)
Buja, Andreas *see* **Gous, Alan**
Byrnes, Christopher I. (*with* Lindquist, Anders) The uncertain generalized moment problem with complexity constraint. **2004k:62039**
Capobianco, Rosa Skewness and fat tails in discrete choice models. (English summary) (*see* **2004a:62009**)
Casella, George *see* **Khuri, André I.**, **2004h:62023**
Chang, Fu Chuen *see* **Gupta, Arjun K.**, **2004b:62029**
Chang, Hua-Hua (*with* Zhang, Jinming) Hypergeometric family and item overlap rates in computerized adaptive testing. (English summary) **2004b:62027**
Chen, Zheng[2] Study on the Lorenz curve and the Gini coefficient. (Chinese. English and Chinese summaries) **2004g:62030**
von Collani, Elart *see* **Sans, Wolfgang**, **2004g:62032**
Conde-Sánchez, Antonio *see* **Rodríguez-Avi, José et al.**, **2004j:62027**
Cox, D. R. Conditional and marginal association for binary random variables. (English summary)
— (*with* Wermuth, Nanny) A general condition for avoiding effect reversal after marginalization. (English summary)
Cramer, Erhard (*with* Kamps, Udo) Marginal distributions of sequential and generalized order statistics. (English summary) **2004k:62040**
Cruz-Medina, I. R. (*with* Hettmansperger, T. P.; Thomas, Hoben, II) Semiparametric mixture models and repeated measures: the multinomial cut point model. (English summary)
Cui, Lirong (*with* Xie, Min[1]) Some normal approximations for renewal function of large Weibull shape parameter. (English summary) **2004a:62032**
Daly, C. C. *see* **Pleasants, A. B. et al.**
Dass, Sarat C. Unified Bayesian and conditional frequentist testing for discrete distributions. (English summary) **2004d:62043**
De Sanctis, Angela Geometry of exponential families of probability distributions. (Italian. English and Italian summaries) **2004f:62034**
De Schepper, Ann (*with* Goovaerts, Marc J.; Dhaene, Jan; Kaas, Rob; Vyncke, David) Bounds for present value functions with stochastic interest rates and stochastic volatility. (English summary) **2004a:62033**
Dey, Dipak K. *see* **Sahu, Sujit K. et al.**, **2004h:62027**
Dey, Jyotirmoy *see* **Ramamoorthi, R. V. et al.**, **2004d:62052**
Dhaene, Jan *see* **De Schepper, Ann et al.**, **2004a:62033**
Dhar, Sunil K. Modeling with a bivariate geometric distribution. (English summary) **2004d:62044**

Díaz-García, José A. (*with* Leiva-Sánchez, Víctor) Doubly non-central t and $\mathcal{F}$ distributions obtained under singular and non-singular elliptic distributions. (English summary) **2004b:62028**

Dinh, Khoan T. (*with* Nguyen, Nhu T.; Nguyen, Truc T.) A regression characterization of inverse Gaussian distributions and application to EDF goodness-of-fit tests. (English summary) **2004c:62026**

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van Dorp, J. René (*with* Kotz, Samuel) Generalizations of two-sided power distributions and their convolution. (English summary)

— (*with* Kotz, Samuel) Generalized trapezoidal distributions. (English summary) **2004f:62035**

Draghici, L. *see* **Ramamoorthi, R. V. et al., 2004d:62052**

Drekic, Steve *see* **Thabane, Lehana, 2004e:62028**

Drew, John H. *see* **Glen, Andrew G. et al., 2004j:62023**

Duan, Zhi Li Correction and application of the optimal value of stepwise equivalence t-test. (Chinese. English and Chinese summaries)

Eissa, Fathy H. *see* **Nassar, Manal M., 2004d:62050**

Engen, Steinar *see* **Lindqvist, Bo Henry et al., 2004b:62034**

Erar, Aydın Bibliometrics or informetrics: displaying regularity in scientific patterns by using statistical distributions. (English summary) **2004d:62045**

Estrella, Arturo Critical values and p values of Bessel process distributions: computation and application to structural break tests. (English summary) **2004h:62021**

Faddy, Malcolm J. *see* **Jones, Michael C., 2004a:62035**

Fang, B. Q. The skew elliptical distributions and their quadratic forms. (English summary) **2004h:62022**

Fătu-Mihoc, Cristina Ioana *see* **Mihoc, Ion, 2004h:62024**

Ferguson, Thomas S. On a Rao-Shanbhag characterization of the exponential/geometric distribution. (English summary) **2004c:62027**

Fischer, Matthias (*with* Klein, Ingo) Kurtosis modelling by means of the J-transformation. (English summary) **2004m:62040**

Gawronski, Wolfgang *see* **van Aubel, Andrea**

Geng, Zhi *see* **Li, Kaican, 2004c:62032**

Ghitany, M. E. (*with* Al-Mutairi, D. K.) A generalized geometric distribution and its application. (English summary) **2004d:62046**

Glen, Andrew G. (*with* Leemis, Lawrence M.; Drew, John H.) Computing the distribution of the product of two continuous random variables. (English summary) **2004j:62023**

Goovaerts, Marc J. (*with* Kaas, Rob) Some problems in actuarial finance involving sums of dependent risks. (English summary)

— *see also* **De Schepper, Ann et al., 2004a:62033**

Goree, Jalaludden *see* **Saxena, Ram Kishore et al., 2004d:62055**

Goria, M. N. (*with* Tagliani, Aldo) Bounds on the tail probability and absolute difference between two distributions. (English summary) **2004i:62027**

Gous, Alan (*with* Buja, Andreas) Visual comparison of datasets using mixture decompositions. (English summary)

Grübel, Rudolf (*with* Hermesmeier, Renate) Computation of compound distributions. II. Discretization errors and Richardson extrapolation. (English summary) **2004d:62047**

Gupta, Arjun K. (*with* Chang, Fu Chuen) Multivariate skew-symmetric distributions. (English summary) **2004b:62029**

Gupta, Pushpa Lata (*with* Gupta, Ramesh C.; Tripathi, Ram C.) Score test for zero inflated generalized Poisson regression model. (English summary)

Gupta, Ramesh C. (*with* Ong, Seng-Huat) A new generalization of the negative binomial distribution. (English summary)

— *see also* **Gupta, Pushpa Lata et al.**

Hamedani, G. G. Characterizations of univariate continuous distributions. II. (English summary) **2004a:62034**

— (*with* Volkmer, Hans) A characterization of symmetric random variables. (English summary) **2004b:62030**

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Oller, J. M. *see* **Reverter, F.**, **2004f:62041**
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Roy, Dilip Discretization of continuous distributions with an application to stress-strength reliability. (English summary) **2004d:62054**
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Simić, Slavko Generalized binomial law and regularly varying moments. (English summary) **2004g:62034**
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Struyf, A. *see* **Brys, G. et al.**, (**2004a:62010**)
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Tagliani, Aldo *see* **Goria, M. N.**, **2004i:62027**
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Volkmer, Hans *see* **Hamedani, G. G.**, **2004b:62030**
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(Basak, Indrani) *see* **Aliev, Fazil Alioglu, 2004f:60025**
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Basu, Ayanendranath *see* **Bhandari, Subir Kumar, 2004c:60008**
Batchelder, William H. *see* **Baldi, Pierre, 2004d:62246**
(Beekman, John A.) *see* **Kalashnikov, Vladimir Vyacheslavovich, 2004d:62367**
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Block, Henry W. (*with* Li, Yulin; Savits, Thomas H.) Initial and final behaviour of failure rate functions for mixtures and systems. (English summary) **2004g:62174**
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Canto e Castro, L. (*with* de Haan, Laurens; Temido, M. Graça) Rarely observed sample maxima. (Russian summary) **2004a:60034**
Cao, Jia-Lin *see* **Chen, Guang-Hua**
Capitanio, Antonella *see* **Azzalini, Adelchi, 2004d:62193**
Castillo, Enrique F. *see* **Arnold, Barry C. et al., 2004e:62107**
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Chattopadhyay, Gaurangadeb *see* **Pal, Manisha et al., 2004h:62184**
Chauhan, Anu Rekha *see* **Saxena, Ram Kishore et al.**
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Dembińska, Anna (*with* Wesołowski, Jacek) Constancy of regression for size-two record spacings. (English summary) **2004m:60027**
Denuit, Michel *see* **Purcaru, Oana, 2004b:62226**; **Hürlimann, Werner, 2004d:62364** *and* **Dhaene, Jan et al., 2004d:91139**
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El Bantli, Faouzi M-estimation in linear models under nonstandard conditions. (English summary) **2004k:62075**
Ericksen, Larry Moments, cumulants, and generating functions of polynomial distributions. (English summary) **2004b:60041**
Fel'dman, G. M. On the Skitovich-Darmois theorem for finite abelian groups. (Russian. Russian summary) **2004f:60011**
— A characterization of the Gaussian distribution on abelian groups. (English summary) **2004f:60012**
Fellman, Johan The redistributive effect of tax policies. (English summary) **2004b:60051**
Fernández-Durán, J. J. Circular distributions based on nonnegative trigonometric sums. (English and French summaries)
Ferson, Scott *see* **Kreinovich, Vladik et al.**
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Frankel, Gerald S. *see* **Ruan, Shiling et al.**
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Galkin, V. Ya. (*with* Ufimtsev, M. V.) A mixture of a finite-order Poisson distribution and a binomial distribution. (English summary) **2004d:60029**
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Gastwirth, Joseph L. *see* **Zheng, Gang[1], 2004c:62196**
Gentosh, O. Ē. *see* **Prikarpat-skiĭ, A. K.**
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Gillet, Elizabeth M. *see* **Gregorius, Hans-Rolf et al.**
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Gluščević, V. *see* **Dragomir, Sever Silvestru et al., 2004e:94018**
Goh, T. N. *see* **Tang, Yong et al., 2004d:62356**
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Gupta, Arjun K. (*with* Huang, Wen-Jang) Quadratic forms in skew normal variates. (English summary) **2004a:62105**
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de Haan, Laurens *see* **Canto e Castro, L. et al., 2004a:60034**
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— *see also* **Frostig, Esther et al., 2004d:62360** *and* **Owadally, M. Iqbal, 2004j:62213**
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Herman, Edwin *see* **Youn, Heekyung et al., 2004c:62212**
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Hirano, Katuomi (*with* Aki, Sigeo) Exact distribution of waiting time of a janken game and related properties. (Japanese. English and Japanese summaries) **2004e:91006**
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Hoshino, Nobuaki Random clustering based on the conditional inverse Gaussian-Poisson distribution. (English summary) **2004m:62145**
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Hu, Chin-Yuan (*with* Lin, Gwo Dong) Characterizations of the exponential distribution by stochastic ordering properties of the geometric compound. (English summary) **2004i:60057**
Huang, Wen-Jang *see* **Gupta, Arjun K., 2004a:62105**
Hughes, Barry D. *see* **Reed, William J.**
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— Fitting bivariate cumulative returns with copulas. (English summary)
— Distortion risk measures and economic capital. (English summary) **2004k:62247**
Husimi, Yuzuru *see* **Aita, Takuyo**
Iglesias, Pilar Loreto *see* **Arellano-Valle, Reinaldo B. et al., 2004i:62122**
Iliopoulos, George *see* **Meintanis, Simos G., 2004f:60037**
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Jakeman, E. (*with* Hopcraft, K. I.; Matthews, J. O.) Distinguishing population processes by external monitoring. (English summary) **2004f:60031**
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Jensen, D. R. On the monotone convergence of vector means. (English summary) **2004d:62196**
Jiao, Gui Mei (*with* Liu, Ke[1]) Some results on stochastic comparison in likelihood ratio order. (Chinese. English and Chinese summaries) **2004h:60026**
Joffe, Anatole *see* **Fuchs, Aimé et al., 2004b:62045**
Joshi, J. M. C. Some applications of S. M. Joshi transform in statistics. (English summary) **2004m:60037**
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Kaas, Rob *see* **Dhaene, Jan et al., 2004d:91139** *and* **Goovaerts, Marc J. et al.**
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Kalla, Shyam L. *see* **Saxena, Ram Kishore et al., 2004h:33027**
Kang, Ming (*with* Alouini, Mohamed-Slim) Hotelling's generalized distribution and performance of 2D-RAKE receivers. (English summary) **2004c:94004**
Karlis, Dimitris *see* **Tsiamyrtzis, Panagiotis**
Katsaris, Apostolos *see* **Brooks, Chris**
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Khan, K. H. (*with* Mahmud, Zafar) Inverse Gaussian distribution model for cancer survival data using maximum likelihood method. (English summary)
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Khurshid, Anwer *see* **Ageel, M. I. et al., 2004k:60027**
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Kim, Hyoung-Moon (*with* Mallick, Bani K.) Moments of random vectors with skew t distribution and their quadratic forms. (English summary) **2004c:62122**
Kim, Peter T. *see* **Jupp, Peter E. et al.**
Kimura, Miyoshi *see* **Ando, Masakazu, 2004g:62065**
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Kumar, Alok[2] *see* **Yadava, K. N. S. et al.**
Ladde, G. S. (*with* Lawrence, Bonita A.) On joint probability density functions of discrete time iterative processes. (English summary) **2004k:60034**
Lahlou, Younes *see* **Cuadras, Carles M.**
Landsman, Zinoviy M. (*with* Makov, Udi E.) Contaminated exponential dispersion loss models. (English summary) **2004d:62368**
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Lauritzen, Steffen L. Rasch models with exchangeable rows and columns. (English summary) **2004j:60030**
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Lawry, Jonathan *see* **Recasens, J., 2004h:03113**
Lazosová, Helena A note on reinsurance contracts with multiple reinstatements. (English and Czech summaries) **2004a:60064**
Le Caër, Gérard (*with* Delannay, Renaud) The distributions of the determinant of fixed-trace ensembles of real-symmetric and of Hermitian random matrices. (English summary) **2004h:15008**
Lee, Min-Young Characterizations of the Pareto distribution by conditional expectations of record values. (English summary) **2004g:62102**
Lefèvre, Claude *see* **Picard, Philippe et al., 2004j:62214**
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Levikson, Benny *see* **Frostig, Esther et al., 2004d:62360**
Levine, Michael V. Dimension in latent variable models. (English summary) **2004f:91127**
(Lhabitant, François-Serge) *see* **Gerber, Hans U., 2004e:62187**
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Li, Xu Cheng *see* **He, Yuan Jiang et al., 2004f:62191**
Li, Yulin *see* **Block, Henry W. et al., 2004g:62174**
Liang, Liming *see* **Egghe, Leo et al., 2004g:62190**
Lillo, Rosa E. *see* **Ausín, M. Concepción et al., (2004g:62009)**
Lin, Gwo Dong *see* **Hu, Chin-Yuan, 2004i:60057**
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Mačutek, Ján Discrete probability distributions generated by the generalized STER summation. (English summary) **2004b:60043**
Mahmoud, Hosam M. *see* **Itoh, Yoshiaki et al., 2004j:62221**
Mahmud, Zafar *see* **Khan, K. H.**
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Malinowski, Marek T. (*with* Misiewicz, Jolanta K.) On the Dugué problem with a solution in the set of signed measures. (English summary) **2004g:60027**
Mallick, Bani K. *see* **Kim, Hyoung-Moon, 2004c:62122**
Mallik, Ranjan K. The pseudo-Wishart distribution and its application to MIMO systems. (English summary) **2004k:94040**
Manjunath, D. *see* **Iyer, Srikanth K.**
Marin, Jean-Michel (*with* Dhorne, Thierry) Optimal quadratic unbiased estimation for models with linear Toeplitz covariance structure. (English summary) **2004b:62166**
Mármol, M. *see* **Claramunt, M. M. et al., 2004k:62245**
Martín Ciudad, N. *see* **Requena, F., 2004j:62110**
Mata, Ana J. Asymptotic dependence of reinsurance aggregate claim amounts. (English summary) **2004k:62248**
Mathew, Thomas[1] *see* **Jayakumar, K., 2004d:62302**
Matthews, J. O. *see* **Jakeman, E. et al., 2004f:60031**
Matthys, Gunther (*with* Delafosse, Emmanuel; Guillou, Armelle; Beirlant, Jan) Estimating catastrophic quantile levels for heavy-tailed distributions. (English summary)
Mazhitov, M. I. *see* **Aringazin, A. K., 2004h:82004**
McLeish, Donald L. (*with* Reesor, R. Mark) Risk, entropy, and the transformation of distributions. (English summary) **2004c:62209**
Meintanis, Simos G. (*with* Iliopoulos, George) Characterizations of the exponential distribution based on certain properties of its characteristic function. (English summary) **2004f:60037**
Meister, Kadri *see* **Traat, Imbi et al.**
(Mendoza Ramírez, Manuel) *see* **Arellano-Valle, Reinaldo B. et al., 2004i:62122**
Miltersen, Kristian R. (*with* Persson, Svein-Arne) Guaranteed investment contracts: distributed and undistributed excess return. (English summary)
Mishra, R. N. *see* **Yadava, K. N. S. et al.**
Misiewicz, Jolanta K. *see* **Malinowski, Marek T., 2004g:60027**
Misra, Neeraj *see* **Nanda, Asok K. et al., 2004h:62183**
(Mitchell, G. Thomas) *see* **Tiong, Serena, 2004c:62210**
Miyake, Yusuke *see* **Kijima, Masaaki, 2004i:91087**
Mohtashami Borzadaran, G. R. Analogue of the Bhattacharyya matrix in natural exponential families (NEF). (English summary) **2004m:62160**
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Pafumi, Gérard *see* **Gerber, Hans U., 2004e:62187**
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Parker, Gary Stochastic analysis of the interaction between investment and insurance risks. (English summary) **2004e:62190**
Paul, Prasanta *see* **Nanda, Asok K. et al., 2004h:62183**
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Prokhorov, A. V. (*with* Ushakov, Nikolai G.) On the problem of reconstructing a distribution of summands from the distribution of the sum. (Russian. Russian summary) **2004d:60035**
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Rothenberg, Thomas J. Some elementary distribution theory for an autoregression fitted to a random walk. (English summary) **2004e:62164**

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Teugels, Józef L. *see* **Beirlant, Jan et al., 2004b:60039** *and* **Fuchs, Aimé et al., 2004b:62045**

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Ufimtsev, M. V. *see* **Galkin, V. Ya., 2004d:60029**

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Vyncke, David *see* **Dhaene, Jan et al., 2004d:91139** *and* **Goovaerts, Marc J. et al.**

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Yitzhaki, Shlomo Gini's mean difference: a superior measure of variability for non-normal distributions. (English summary) **2004j:60036**
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Zhang, John *see* **He, Yuan Jiang et al.**, **2004f:62191**
Zhang, Li Hong *see* **Yang, Hailiang**, **2004c:62211**
Zhang, Weilong *see* **Ruan, Shiling et al.**
(Zhang, Xiaolan) *see* **Gerber, Hans U.**
Zhao, Xiang Hua *see* **Dong, Hua**
Zheng, Chui Yong *see* **Wu, He Cheng**
Zheng, Gang[1] (*with* Gastwirth, Joseph L.) Fisher information in ordered randomly censored data with applications to characterization problems. (English summary) **2004c:62196**
Ziehe, Martin *see* **Gregorius, Hans-Rolf et al.**
Zimmer, William J. *see* **Wang, Yao[2] et al.**, **2004f:62189**
Zuccolotto, Paola *see* **De Luca, Giovanni**

62E15 Exact distribution theory

Aki, Sigeo *see* **Hirano, Katuomi**, **2004c:62035** *and* **Inoue, Kiyoshi[2]**, **2004c:62036**
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Branco, Márcia D. (*with* Dey, Dipak K.) Regression model under skew elliptical error distribution. (English summary) **2004k:62043**
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Hirano, Katuomi (*with* Aki, Sigeo) On k-match problems. (English summary) **2004c:62035**
Hofmann, Glenn *see* **Stepanov, Aleksei Vasil'evich et al.**, **2004d:62058**
Inoue, Kiyoshi[2] (*with* Aki, Sigeo) Generalized binomial and negative binomial distributions of order k by the l-overlapping enumeration scheme. (English summary) **2004c:62036**
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Jorgensen, Murray *see* **Reed, William J.**
Katulska, Krystyna *see* **Grala, Jolanta**
Kotz, Samuel *see* **Yang, Zhen Hai**, **2004f:62043**
Mexia, João Tiago *see* **Fonseca, Miguel et al.**, **2004f:62042**
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Mukhopadhyay, Parimal Some lower bounds on variances of estimating functions. (English summary) **2004b:62038**
Nadarajah, Saralees Reliability for extreme value distributions. (English summary) **2004c:62037**
Nagar, Daya K. *see* **Sánchez, Luz Estela**, **2004c:62038**
Nahar, S. *see* **Rahman, Md. Shafiqur**
Olapade, A. K. Some relationships between the type II generalized logistic and other distributions. (English summary) **2004a:62041**
Papathanasiou, Afroditi A. *see* **Tripsiannis, Gregory A. et al.**, **2004c:62040** *and* **2004g:62036**
Philippou, Andreas N. *see* **Tripsiannis, Gregory A. et al.**, **2004c:62040**; **2004g:62036** *and* **2004j:62028**
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Zmyślony, Roman *see* **Fonseca, Miguel et al.**, **2004f:62042**

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Bekker, Paul (*with* Kleibergen, Frank) Finite-sample instrumental variables inference using an asymptotically pivotal statistic. (English summary) **2004h:62095**
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62E17 Approximations to distributions (nonasymptotic)

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62E20 Asymptotic distribution theory

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(Cui, Sufang) *see* **Asgharian, Masoud**, **2004k:62049**
Cumberland, William G. *see* **Lui, Kung-Jong**
Darkhovskiĭ, Boris (*with* Staroświecki, Marcel) On the problem of the discrimination of two hypotheses with an unknown parameter. (Russian. Russian summary) **2004k:62052**
Devlin, B. *see* **Tzeng, Jung-Ying et al.**, **2004a:62053**
Dey, Dipak K. *see* **Micheas, Athanasios C.**, **2004h:62033**
Dixit, Ulhas Jayram (*with* Dixit, Vaijayanti U.) Testing of the parameters of a right truncated exponential distribution. (English summary) **2004d:62066**
Dixit, Vaijayanti U. *see* **Dixit, Ulhas Jayram**, **2004d:62066**
Doku, W. O. *see* **Swanepoel, Cornelia J.**
Dong, Pu Testing the multivariate normal means under order restriction. (Chinese. English and Chinese summaries) **2004b:62047**
Ducharme, Gilles R. (*with* Frichot, Benoît) Quasi most powerful invariant goodness-of-fit tests. (English summary) **2004f:62047**
Dudoit, Sandrine (*with* Shaffer, Juliet Popper; Boldrick, Jennifer C.) Multiple hypothesis testing in microarray experiments. (English summary)
Fang, Xiangzhong (*with* Chen, Jiading) EM algorithm and its application to testing hypotheses. (English summary)
Fay, Gilles (*with* Philippe, Anne) Goodness-of-fit test for long range dependent processes. (English summary) **2004f:62048**
Ferreira, Daniel Furtado *see* **Borges, Lívia Costa**
Fierro, Raúl A test of goodness of fit testing for stochastic intensities associated to counting processes. (English summary) **2004e:62033**
Filzmoser, Peter (*with* Viertl, Reinhard) Testing hypotheses with fuzzy data: the fuzzy p-value. (English summary)
Fiorentini, Gabriele (*with* Sentana, Enrique; Calzolari, Giorgio) On the validity of the Jarque-Bera normality test in conditionally heteroskedastic dynamic regression models. (English summary)
Fong, Daniel Y. T. (*with* Kwan, C. W.; Lam, Kin; Lam, Karen S. L.) Use of the sign test for the median in the presence of ties. (English summary)
Freidlin, Boris *see* **Zheng, Gang[1] et al.**, **2004d:62074**
Frichot, Benoît *see* **Ducharme, Gilles R.**, **2004f:62047**
Frick, Hans Two statistics for unconditional exact tests in matched-pairs design. (English summary) **2004g:62039**
Gao, Xiong *see* **Li, Gang[5] et al.**, **2004f:62050**
García Nogales, Agustín *see* **Montanero, Jesús et al.**, **2004m:62052**
García-Pérez, Alfonso von Mises approximation of the critical value of a test. (English summary)
Garel, Bernard (*with* Goussanou, Franck) Removing separation conditions in a 1 against 3-components Gaussian mixture problem. (English summary) **2004h:62032**
Gastwirth, Joseph L. *see* **Zheng, Gang[1] et al.**, **2004d:62074**
Genovese, Christopher (*with* Wasserman, Larry) Bayesian and frequentist multiple testing. (English summary) (*see* **2004g:62009**)
Geys, Helena (*with* Molenberghs, Geert) Pseudo-likelihood inference. (*see* **2004g:62010**)
Ghosh, Kaushik Detecting changes in the von Mises distribution. (English summary) (*see* **2004a:62007**)
Ghysels, Eric (*with* Guay, Alain) Structural change tests for simulated method of moments. (English summary) **2004e:62034**
Giampaoli, Viviana (*with* Singer, Julio Motta) Comparison of two normal populations with restricted means. (English summary)
Gill, Amar Nath *see* **Singh, Parminder**
Gill, Paramjit S. Small-sample inference for the comparison of means of log-normal distributions. (English and French summaries)
Godfrey, Leslie G. (*with* Orme, Chris D.) Controlling the finite sample significance levels of heteroskedasticity-robust tests of several linear restrictions on regression coefficients. (English summary) **2004k:62053**
Goh, T. N. *see* **He, Bin[2] et al.**
Gönen, Mithat (*with* Westfall, Peter H.; Johnson, Wesley O.) Bayesian multiple testing for two-sample multivariate endpoints. (English and French summaries) **2004c:62047**
Goussanou, Franck *see* **Garel, Bernard**, **2004h:62032**
Graneri, Jorge χ^2-type goodness of fit test based on transformed empirical processes for location and scale families. (English summary)
Guay, Alain *see* **Ghysels, Eric**, **2004e:62034**
Gulati, Sneh (*with* Neus, Jordan) Goodness of fit statistics for the exponential distribution when the data are grouped. (English summary) **2004b:62048**
Guo, Huizhen (*with* Krishnamoorthy, K.) New approximate inferential methods for the reliability parameter in a stress-strength model: the normal case. (English summary)
Gupta, Arjun K. *see* **Wu, Yan Hong**
Gupta, Pushpa Lata *see* **He, Bin[2] et al.**
Gupta, Rameshwar D. (*with* Kundu, Debasis) Discriminating between gamma and generalized exponential distributions. (English summary) **2004k:62054**
Güven, Bilgehan Test of independence in the Farlie-Gumbel-Morgenstern distribution. (English summary) **2004f:62049**
Han, Sung-Il *see* **Kang, Man-Ki et al.**
Hartung, Joachim (*with* Makambi, Kepher H.) Simple non-iterative t-distribution based tests for meta-analysis. (English summary) **2004a:62048**
Hausdorf, Bernhard *see* **Hennig, Christian**
He, Bin[2] (*with* Gupta, Pushpa Lata; Xie, Min[1]; Goh, T. N.) A confidence interval test for testing Poisson model against zero-inflated Poisson model. (English summary)
He, Can Zhi *see* **Tian, Maozai**, **2004j:62030**
Hennig, Christian (*with* Hausdorf, Bernhard) Distance-based parametric bootstrap tests for clustering of species ranges. (English summary)
Herranz Tejedor, I. *see* **Martín Andrés, A.**
Hoijtink, Herbert *see* **Kato, Bernet Sekasanvu**
Huang, Minqiang *see* **Li, Gang[5] et al.**, **2004f:62050**
Hušková, Marie (*with* Steinebach, J. G.) Asymptotic tests for gradual changes. (English summary) **2004b:62049**
Iliopoulos, George *see* **Meintanis, Simos G.**, **2004b:62050**
Ingster, Yu. I. On nearly simple hypothesis testing. (Russian. Russian summary) **2004a:62049**
Jeffries, Neal O. A note on: "Testing the number of components in a normal mixture" [Biometrika **88** (2001), no. 3, 767–778] by Y. Lo, N. R. Mendell, and D. B. Rubin. (English summary)
Johnson, Wesley O. *see* **Gönen, Mithat et al.**, **2004c:62047**
Jupp, Peter E. *see* **Larsen, P. V.**, **2004a:62050**
Kalbfleisch, John D. *see* **Chen, Hanfeng et al.**, **2004k:62051**
Kang, Man-Ki (*with* Lee, Chang-Eun; Han, Sung-Il) Fuzzy hypotheses testing for hybrid numbers by agreement index. (English summary)
Kang, Sang Gil *see* **Cho, Jang Sik et al.**
Kapetanios, George *see* **Blake, Andrew P.**
Kato, Bernet Sekasanvu (*with* Hoijtink, Herbert) Testing homogeneity in a random intercept model using asymptotic, posterior predictive and plug-in p-values. (English summary)
Kheirandish, Reza *see* **Tideman, T. Nicolaus**
Kim, Keeyoung *see* **Choi, Byungjin**
Kongsted, Hans Christian An $I(2)$ cointegration analysis of small-country import price determination. (English summary)
Kozubowski, Tomasz J. (*with* Panorska, Anna K.) Testing symmetry under a skew Laplace model. (English summary) **2004j:62029**
Krishnamoorthy, K. (*with* Thomson, Jessica; Cai, Yong) An exact method of testing equality of several binomial proportions to a specified standard. (English summary)
— (*with* Thomson, Jessica) A more powerful test for comparing two Poisson means. (English summary)
— *see also* **Guo, Huizhen**
Kropf, Siegfried *see* **Läuter, Jürgen**, (**2004a:62009**)
Kumar, Narinder (*with* Singh, Radhey S.; Öztürk, Ömer) A new class of distribution-free tests for location parameters. (English summary) **2004c:62048**
Kundu, Debasis *see* **Gupta, Rameshwar D.**, **2004k:62054**
Kurozumi, Eiji Some properties of the point optimal invariant test for the constancy of parameters. (English summary) **2004m:62050**
Kwan, C. W. *see* **Fong, Daniel Y. T. et al.**
Kwong, Koon Shing *see* **Liu, Wei[4]**, **2004f:62052**
Lalley, Steven P. (*with* Nobel, Andrew B.) Indistinguishability of absolutely continuous and singular distributions. (English summary) **2004g:62040**
Lam, Karen S. L. *see* **Fong, Daniel Y. T. et al.**
Lam, Kin *see* **Fong, Daniel Y. T. et al.**
Larsen, P. V. (*with* Jupp, Peter E.) Parametrization-invariant Wald tests. (English summary) **2004a:62050**
Lathika, P. *see* **Muralidharan, Kunnumal**
Läuter, Jürgen (*with* Kropf, Siegfried) Data compression and selection of variables, with respect to exact inference. (*see* **2004a:62009**)
Lee, Chang-Eun *see* **Kang, Man-Ki et al.**
Li, Gang[3] (*with* Papadopoulos, Alex Spero) A note on goodness of fit test using moments. (English and Italian summaries) **2004d:62067**
Li, Gang[5] (*with* Gao, Xiong; Huang, Minqiang) Testing multivariate one-sided hypotheses. (English summary) **2004f:62050**
Li, Zhaohai *see* **Zheng, Gang[1] et al.**, **2004d:62074**
Lin, Jin-Guan (*with* Wei, Bo Cheng; Zhang, Nansong) Testing for varying dispersion in discrete exponential family nonlinear models. (English summary) **2004f:62051**
— (*with* Wei, Bo Cheng) Testing for heteroscedasticity and/or correlation in nonlinear models with correlated errors. (English summary) **2004m:62051**
Linssen, H. N. *see* **van Berkum, E. E. M. et al.**
Litvinova, V. V. Two criteria of goodness of fit for the Cauchy distribution that are based on characterizations. (Russian. English and Russian summaries) **2004d:62068**
Liu, Wei[4] (*with* Kwong, Koon Shing) A multiple directional decision procedure for successive comparisons of treatment effects. (English summary) **2004f:62052**
— Some sequential equivalence tests that control both the size and power. (English summary)
Liu, Xin (*with* Pasarica, Cristian; Shao, Yongzhao) Testing homogeneity in gamma mixture models. (English summary) **2004f:62053**
(Lo, Yungtai) *see* **Jeffries, Neal O.**
Loughin, Thomas M. *see* **Bilder, Christopher R.**
Lu, Zuhong *see* **Xie, Xueying et al.**
Lui, Kung-Jong (*with* Cumberland, William G.) Power and sample size calculation for 2×2 tables under multinomial sampling with random loss. (English summary)
Madan, Kailash C. *see* **Abu-Dayyeh, Walid A.**, **2004e:62032**
Magel, Rhonda C. (*with* Qin, Li) A non-parametric test for umbrella alternatives based on ranked-set sampling. (English summary)
Makambi, Kepher H. *see* **Hartung, Joachim**, **2004a:62048**
Malley, James D. (*with* Redner, Richard A.; Severini, Thomas A.; Badner, Judith A.; Pajevic, Sinisa; Bailey-Wilson, Joan E.) Estimation of linkage and association from allele transmission data. (English summary) **2004d:62069**
Martín Andrés, A. (*with* Silva Mato, A.) Greenland's paradox, Fisher's example of the flowers and 2×2 tables. (English summary)
— (*with* Herranz Tejedor, I.) Exact unconditional non-classical tests on the difference of two proportions. (English summary)
Meintanis, Simos G. (*with* Iliopoulos, George) Tests of fit for the Rayleigh distribution based on the empirical Laplace transform. (English summary) **2004b:62050**

(Mendell, Nancy R.) *see* **Jeffries, Neal O.**
Menéndez, M. L. (*with* Pardo Llorente, Julio Ángel; Pardo, Leandro; Zografos, K.) On tests of homogeneity based on minimum φ-divergence estimator with constraints. (English summary) **2004d:62070**
Michalski, Andrzej On some aspects of the optimal statistical inference on variance components in mixed linear models. (English summary)
Micheas, Athanasios C. (*with* Dey, Dipak K.) Prior and posterior predictive p-values in the one-sided location parameter testing problem. (English summary) **2004h:62033**
Mietlowski, William L. *see* **Mudholkar, Govind S. et al., 2004f:62055**
Molenberghs, Geert *see* **Geys, Helena, (2004g:62010)**
Molina, I. (*with* Morales, Domingo; Pardo, Leandro; Vajda, Igor) On size increase for goodness of fit tests when observations are positively dependent. (English summary) **2004c:62049**
Montanero, Jesús (*with* García Nogales, Agustín; Oyola, José A.; Pérez, Paloma) On partial sufficiency and invariance. (English summary) **2004m:62052**
Morales, Domingo *see* **Molina, I. et al., 2004c:62049**
Moreira, Marcelo J. A conditional likelihood ratio test for structural models. (English summary) **2004f:62054**
Morris, K. W. (*with* Szynal, Dominik) Tests for uniformity and exponentiality using a characterization. **2004b:62051**
— (*with* Szynal, Dominik) Tests derived from characterizations in terms of moments of record values. (English summary) **2004g:62041**
Mudholkar, Govind S. (*with* Natarajan, Rajeshwari; Chaubey, Yogendra P.) A goodness-of-fit test for the inverse Gaussian distribution using its independence characterization. (English summary) **2004c:62050**
— (*with* Wilding, Gregory E.; Mietlowski, William L.) Robustness properties of the Pitman-Morgan test. (English summary) **2004f:62055**
— (*with* Tian, Lili) A test for homogeneity of ordered means of inverse Gaussian populations. (English summary) **2004i:62036**
Munk, Axel On a problem in pharmaceutical statistics and the iteration of a peculiar nonlinear operator in the upper complex halfplane. (English summary) **2004d:62071**
Muralidharan, Kunnumal (*with* Lathika, P.) Optimal estimating equations in zero inflated generalized Poisson distribution. (English summary)
Nam, Jun-mo Homogeneity score test for the intraclass version of the kappa statistics and sample-size determination in multiple or stratified studies. (English and French summaries)
Natarajan, Rajeshwari *see* **Mudholkar, Govind S. et al., 2004c:62050**
Navarro, Jorge (*with* Ruiz Gómez, José María; del Aguila, Yolanda) How to detect biased samples? (English summary) **2004a:62051**
Neus, Jordan *see* **Gulati, Sneh, 2004b:62048**
Nguyen Van Ho The locally most powerful rank tests for testing randomness and symmetry.
Nobel, Andrew B. *see* **Lalley, Steven P., 2004g:62040**
Noorbaloochi, Siamak *see* **Chinipardaz, Rahim, 2004g:62038**
Novikov, An. A. *see* **Volodin, I. N. et al., 2004k:62057**
Orasch, Markus Testing multiple changes in the mean. (English summary) **2004b:62052**
Orme, Chris D. *see* **Godfrey, Leslie G., 2004k:62053**
Overdijk, D. A. *see* **van Berkum, E. E. M. et al.**
Oyola, José A. *see* **Montanero, Jesús et al., 2004m:62052**
Öztürk, Ömer *see* **Kumar, Narinder et al., 2004c:62048**
Pajevic, Sinisa *see* **Malley, James D. et al., 2004d:62069**
Pal, Chandranath Higher order $C(\alpha)$ tests with applications to mixture models. (English summary) **2004a:62052**
Panorska, Anna K. *see* **Kozubowski, Tomasz J., 2004j:62029**
Papadopoulos, Alex Spero (*with* Qiao, Ning) On the Kolmogorov-Smirnov test for the Poisson distribution with unknown parameter. (English summary) **2004e:62035**
— *see also* **Li, Gang[3], 2004d:62067**
Pardo, Leandro *see* **Cressie, Noel et al., 2004c:62046**; **Molina, I. et al., 2004c:62049** *and* **Menéndez, M. L. et al., 2004d:62070**
Pardo, María del Carmen *see* **Cressie, Noel et al., 2004c:62046**
Pardo Llorente, Julio Ángel *see* **Menéndez, M. L. et al., 2004d:62070**
Pasarica, Cristian *see* **Liu, Xin et al., 2004f:62053**
Pasupathy, Meenakshi *see* **Barnett, William A., 2004d:62062**
Pérez, Paloma *see* **Montanero, Jesús et al., 2004m:62052**
Perlman, Michael D. (*with* Wu, Lang) On the validity of the likelihood ratio and maximum likelihood methods. (English summary)
Pesaran, M. Hashem (*with* Weeks, Melvyn) Nonnested hypothesis testing: an overview. (*see* **2004j:62006**)
Philippe, Anne *see* **Fay, Gilles, 2004f:62048**
Ploberger, Werner A complete class of tests when the likelihood is locally asymptotically quadratic. (English summary) **2004m:62053**
Premaratne, Gamini *see* **Bera, Anil K., (2004j:62006)**
Qiao, Ning *see* **Papadopoulos, Alex Spero, 2004e:62035**
Qin, Li *see* **Magel, Rhonda C.**
Ramanayake, Asoka Tests for a change point in the shape parameter of gamma random variables. (English summary)
Redner, Richard A. *see* **Malley, James D. et al., 2004d:62069**
(Robert, Christian P.) *see* **Genovese, Christopher, (2004g:62009)**
Robinson, John (*with* Ronchetti, Elvezio; Young, G. Alastair) Saddlepoint approximations and tests based on multivariate M-estimates. (English summary) **2004h:62034**
Roeder, Kathryn *see* **Tzeng, Jung-Ying et al., 2004a:62053**
Ronchetti, Elvezio *see* **Robinson, John et al., 2004h:62034**
(Rousseau, Judith) *see* **Genovese, Christopher, (2004g:62009)**
Ruben, Harold A simple conservative and robust solution of the Behrens-Fisher problem. (English summary) **2004c:62051**
(Rubin, Donald B.) *see* **Jeffries, Neal O.**
Ruiz Gómez, José María *see* **Navarro, Jorge et al., 2004a:62051**
Saleh, A. K. Md. Ehsanes *see* **Billah, Md. Baki, (2004a:62006)**
Salikhov, N. P. Optimal sequences of tests for the discrimination of several multinomial schemes of trials. (Russian. Russian summary) **2004h:62035**
Samawi, Hani M. (*with* Abu-Dayyeh, Walid A.) More powerful sign test using median ranked set sample: finite sample power comparison. (English summary)
Samuel-Cahn, Ester Erratum: "Is the Simes improved Bonferroni procedure conservative?" [Biometrika **83** (1996), no. 4, 928–933].
Saxena, K. K. *see* **Singh, Pradeep et al., 2004f:62056**
Schmid, Friedrich (*with* Trede, Mark) Simple tests for peakedness, fat tails and leptokurtosis based on quantiles. (English summary) **2004d:62072**
Sentana, Enrique *see* **Fiorentini, Gabriele et al.**
Severini, Thomas A. *see* **Malley, James D. et al., 2004d:62069**
Shaffer, Juliet Popper *see* **Dudoit, Sandrine et al.**
Shao, Jun[1] *see* **Chow, Shein-Chung et al., 2004d:62065**
Shao, Yongzhao *see* **Liu, Xin et al., 2004f:62053**
Siegmund, David *see* **Storey, John D. et al., 2004k:62056**
Silva Mato, A. *see* **Martín Andrés, A.**
Singer, Julio Motta *see* **Giampaoli, Viviana**
Singh, Parminder (*with* Gill, Amar Nath) A one sided test based on sample quasi ranges. (English summary)
Singh, Pradeep (*with* Saxena, K. K.; Srivastava, O. P.) Power comparisons of solutions to the Behrens-Fisher problem. (English summary) **2004f:62056**
Singh, Radhey S. *see* **Kumar, Narinder et al., 2004c:62048**
Sofronov, G. Yu. An asymptotically d-optimal test for detecting a change point. (Russian. Russian summary) **2004b:62053**
Srivastava, O. P. *see* **Singh, Pradeep et al., 2004f:62056**
Staroświecki, Marcel *see* **Darkhovskiĭ, Boris, 2004k:62052**
Stehlík, Milan Distributions of exact tests in the exponential family. (English summary) **2004d:62073**
Steinebach, J. G. *see* **Hušková, Marie, 2004b:62049**
Stern, J. M. (*with* Zacks, Shelemyahu) Testing the independence of Poisson variates under the Holgate bivariate distribution: the power of a new evidence test. (English summary) **2004h:62036**
Storey, John D. The positive false discovery rate: a Bayesian interpretation and the q-value. (English summary) **2004k:62055**
— (*with* Tibshirani, Robert) Statistical significance for genomewide studies. (English summary)
— (*with* Taylor, Jonathan E.; Siegmund, David) Strong control, conservative point estimation and simultaneous conservative consistency of false discovery rates: a unified approach. (English summary) **2004k:62056**
Sun, Jiayang *see* **Charnigo, Richard**
Sun, Xiao *see* **Xie, Xueying et al.**
(Sun, Yanqing) *see* **Asgharian, Masoud, 2004k:62049**
Swallow, William H. *see* **Tebbs, Joshua M.**
Swanepoel, Cornelia J. (*with* Doku, W. O.) New goodness-of-fit tests for the error distribution of autoregressive time-series models. (English summary)
Szynal, Dominik *see* **Morris, K. W., 2004b:62051** *and* **2004g:62041**
Tang, Man-Lai (*with* Tang, Nian-Sheng) Exact tests for comparing two paired proportions with incomplete data. (English summary)
Tang, Nian-Sheng Sample size determination for testing nonzero difference of two proportions in matched-pair design. (English and Chinese summaries)
— *see also* **Tang, Man-Lai**
Tarasińska, Joanna On certain consequences of averaging observations derived from normal population. (English summary)
Taylor, Jonathan E. *see* **Storey, John D. et al., 2004k:62056**
Tebbs, Joshua M. (*with* Swallow, William H.) More powerful likelihood ratio tests for isotonic binomial proportions. (English summary)
Tec-Canché, M. J. *see* **Volodin, I. N. et al., 2004k:62057**
Thomson, Jessica *see* **Krishnamoorthy, K. et al.**
Tian, Lili *see* **Mudholkar, Govind S., 2004i:62036**
Tian, Maozai (*with* He, Can Zhi) A generalized variance-ratio test for a heteroskedastic regression. (English and Chinese summaries) **2004j:62030**
Tibshirani, Robert *see* **Storey, John D.**
Tideman, T. Nicolaus (*with* Kheirandish, Reza) Structurally consistent probabilities of selecting answers. (English summary)
(Tiwari, Ram C.) *see* **Asgharian, Masoud, 2004k:62049**
Trede, Mark *see* **Schmid, Friedrich, 2004d:62072**
Tunaru, Radu *see* **Vladimirescu, Ion, 2004j:62031**
Tzeng, Jung-Ying (*with* Byerley, William; Devlin, B.; Roeder, Kathryn; Wasserman, Larry) Outlier detection and false discovery rates for whole-genome DNA matching. (English summary) **2004a:62053**
Ursianu, Emiliana On the equivalence of some tests for correlated proportions. (English summary) **2004h:62037**
Vajda, Igor *see* **Molina, I. et al., 2004c:62049**
Viertl, Reinhard *see* **Filzmoser, Peter**
Vladimirescu, Ion (*with* Tunaru, Radu) Tests for discrimination between two generalized Rayleigh distributions. (English summary) **2004j:62031**
Volodin, I. N. (*with* Novikov, An. A.; Tec-Canché, M. J.) Asymptotics of the necessary size of a sample for locally asymptotically normal experiments. (Russian. Russian summary) **2004k:62057**
Wang, Hansheng *see* **Chow, Shein-Chung et al., 2004d:62065**
Wasserman, Larry *see* **Tzeng, Jung-Ying et al., 2004a:62053** *and* **Genovese, Christopher, (2004g:62009)**
Weeks, Melvyn *see* **Pesaran, M. Hashem, (2004j:62006)**
Wei, Bo Cheng *see* **Lin, Jin-Guan et al., 2004f:62051** *and* **2004m:62051**
Westfall, Peter H. *see* **Gönen, Mithat et al., 2004c:62047**
Wilding, Gregory E. *see* **Mudholkar, Govind S. et al., 2004f:62055**
Wooldridge, Jeffrey M. Diagnostic testing. (*see* **2004j:62006**)
Wright, Jonathan H. Detecting lack of identification in GMM. (English summary) **2004a:62054**
Wu, Da Wei Test for distribution parameter in mixed Poisson processes. (Chinese. English and Chinese summaries) **2004k:62058**
Wu, Lang *see* **Perlman, Michael D.**

Wu, Yan Hong (*with* Gupta, Arjun K.) Local score tests in mixture exponential family. (English summary)
Xie, Min[1] *see* **He, Bin[2] et al.**
Xie, Xueying (*with* Sun, Xiao; Lu, Zuhong) Auto-selection order of Markov chain for background sequences with chi-square test. (English and Chinese summaries)
Young, G. Alastair *see* **Robinson, John et al., 2004h:62034**
Zacks, Shelemyahu *see* **Stern, J. M., 2004h:62036**
Zeileis, Achim Alternative boundaries for CUSUM tests. (English summary)
Zhang, He Ping[1] *see* **Zhu, Hong-Tu, 2004m:62054**
Zhang, Nansong *see* **Lin, Jin-Guan et al., 2004f:62051**
Zhao, Linda H. *see* **Brown, Lawrence D.**
Zheng, Gang[1] (*with* Freidlin, Boris; Li, Zhaohai; Gastwirth, Joseph L.) Choice of scores in trend tests for case-control studies of candidate-gene associations. (English summary) **2004d:62074**
Zhu, Hong-Tu (*with* Zhang, He Ping[1]) Structure mixture regression models. (English summary) **2004m:62054**
— (*with* Zhang, He Ping[1]) Hypothesis testing in mixture regression models. (English summary)
Zografos, K. *see* **Menéndez, M. L. et al., 2004d:62070**

Items with secondary classifications in 62F03

Abu-Dayyeh, Walid A. (*with* Al-Jararha, Jehad; Madan, Kailash C.) LRT conjecture for bivariate normal. (English summary) **2004k:62149**
Abu-Youssef, S. E. Moment inequality on new renewal better than used class of life distributions with hypothesis testing application. (English summary) **2004k:60042**
Al-Jararha, Jehad *see* **Abu-Dayyeh, Walid A. et al., 2004k:62149**
Allefeld, Carsten (*with* Kurths, Jürgen) Testing for phase synchronization. (English summary)
Amari, Sh. *see* **Burnashev, Marat V. et al., 2004c:62082**
An, Hong-zhi *see* **Ip, Wai Cheung et al., 2004h:62158**
Antreich, Kurt *see* **Pronath, Michael et al., (2004h:00023)**
Aoki, Satoshi Network algorithm for the exact test of Hardy-Weinberg proportion for multiple alleles. (English summary) **2004d:62370**
— *see also* **Srivastava, Muni S. et al., (2004j:62008)**
Bai, Jushan (*with* Perron, Pierre) Critical values for multiple structural change tests. (English summary)
Barnett, Vic (*with* Bown, Marion) Setting environmental standards: a statistical approach. (English summary) (*see* **2004m:62011**)
Basu, Ayanendranath (*with* Park, Chanseok; Lindsay, Bruce G.; Li, Haihong[2]) Some variants of minimum disparity estimation. (English summary)
— *see also* **Park, Chanseok, 2004d:62120**
Basu, Ruma (*with* Ghosh, Jayanta K.; Mukerjee, Rahul) Empirical Bayes prediction intervals in a normal regression model: higher order asymptotics. (English summary) **2004e:62013**
Bednarski, Tadeusz Estimation in the generalized Poisson model via robust testing. (English summary) (*see* **2004a:62010**)
Berkoun, Youcef (*with* Fellag, Hocine; Zieliński, Ryszard) Robust testing serial correlation in AR(1) processes in the presence of a single additive outlier. (English summary) **2004g:62153**
Bown, Marion *see* **Barnett, Vic, (2004m:62011)**
Bullmore, E. T. *see* **Landau, Sabine et al.**
Burnashev, Marat V. (*with* Amari, Sh.; Han, Te Sun) On some problems of hypothesis testing with information constraints. (Russian. Russian summary) **2004c:62082**
Burridge, Peter (*with* Taylor, A. M. Robert) On the properties of regression-based tests for seasonal unit roots in the presence of higher-order serial correlation. (English summary) **2004c:62177**
Casella, George *see* **Ma, Chang-Xing et al., 2004j:92047**
Catalano, Paul J. *see* **Han, Karen E. et al.**
Chan, Ivan S. F. (*with* Tang, Nian-Sheng; Tang, Man-Lai; Chan, Ping-Shing) Statistical analysis of noninferiority trials with a rate ratio in small-sample matched-pair designs. (English and French summaries)
Chan, Ping-Shing *see* **Chan, Ivan S. F. et al.**
Chan, Wai-sum *see* **Kwong, Koon Shing et al.**
Chen, Kuen-Suan *see* **Lin, Pi Chuan et al., 2004i:62177**
Cheng, Qian Sheng *see* **Zhang, Ming-Heng**
Cheung, Siu Hung *see* **Kwong, Koon Shing et al.**
Chiang, Chin Long ★ Statistical methods of analysis.
Cho, Jang Sik (*with* Choi, Seung Bae) Independence test for bivariate Pareto distribution under bivariate type I censorship. (English summary)
Choi, Seung Bae *see* **Cho, Jang Sik**
Chung, Younshik (*with* Dey, Dipak K.; Yang, Tae Young; Jang, Junghoon) Bayesian hierarchical model with skewed elliptical distribution. (English summary) **2004m:62072**
Clark, Virginia A. *see* **Mickey, Ruth M. et al., 2004k:62004**
Cordeiro, Gauss Moutinho Corrected likelihood ratio tests in symmetric nonlinear regression models. (English summary)
Czika, Wendy (*with* Weir, B. S.) Properties of the multiallelic trend test. (English and French summaries)
Datta, Susmita Testing neutrality of mtDNA using multigeneration cytonuclear data. (English summary) (*see* **2004c:62007**)
— Some statistical issues involving multigeneration cytonuclear data. (English summary) (*see* **2004a:62006**)
Delmas, Céline On likelihood ratio tests in Gaussian mixture models. (English summary)
De Santis, Fulvio Statistical evidence and sample size determination for Bayesian hypothesis testing. (English summary)
Dey, Dipak K. *see* **Chung, Younshik et al., 2004m:62072**
Dinh, Khoan T. (*with* Nguyen, Nhu T.; Nguyen, Truc T.) A regression characterization of inverse Gaussian distributions and application to EDF goodness-of-fit tests. (English summary) **2004c:62026**
— *see also* **Nguyen, Truc T., 2004h:62026**
Donald, Stephen G. (*with* Imbens, Guido W.; Newey, Whitney K.) Empirical likelihood estimation and consistent tests with conditional moment restrictions. (English summary) **2004g:62045**
Drekic, Steve *see* **Thabane, Lehana, 2004e:62028** *and* **2004j:62143**
Dubinin, Thomas Michael (*with* Vardeman, Stephen Bruce) Likelihood-based inference in some continuous exponential families with unknown threshold parameters. (English summary) **2004h:62050**
Dudoit, Sandrine (*with* Goldstein, Darlene R.) Extensions to a score test for genetic linkage with identity by descent data. (English summary) (*see* **2004d:62008**)
Dufour, Jean-Marie (*with* Khalaf, Lynda) Monte Carlo test methods in econometrics. (*see* **2004j:62006**)
Dunn, Olive Jean *see* **Mickey, Ruth M. et al., 2004k:62004**
Ellison-Wright, I. C. *see* **Landau, Sabine et al.**
Erez, Elona (*with* Feder, Meir) Improving the generalized likelihood ratio test for unknown linear Gaussian channels. (English summary) **2004f:94046**
Falk, Martin *see* **Koebel, Bertrand M. et al., 2004b:62066**
Farcomeni, Alessio Unified conditional frequentist and Bayesian testing: computations in practice and sample size determination. (English summary) **2004j:62051**
Feder, Meir *see* **Erez, Elona, 2004f:94046**
Fellag, Hocine *see* **Berkoun, Youcef et al., 2004g:62153**
Gaffke, Norbert (*with* Heiligers, Berthold; Offinger, Robert) On the asymptotic null-distribution of the Wald statistic at singular parameter points. (English summary) **2004a:62055**
Gao, Yonghong *see* **Marden, John, 2004k:62150**
Gather, Ursula *see* **Wellmann, Jürgen**
Geisler, Iris *see* **Oaxaca, Ronald L., 2004e:62048**
Ghosh, Jayanta K. *see* **Basu, Ruma et al., 2004e:62013**
Ghosh, Malay (*with* Heo, Jungeun) Noninformative priors, credible sets and Bayesian hypothesis testing for the intraclass model. (English summary) **2004b:62080**
Glimm, Ekkehard *see* **Srivastava, Muni S. et al., (2004j:62008)**
Goldstein, Darlene R. *see* **Dudoit, Sandrine, (2004d:62008)**
Gombay, Edit Parametric sequential tests in the presence of nuisance parameters. (English summary) **2004m:62172**
Good, Phillip I. (*with* Hardin, James W.) ★ Common errors in statistics (and how to avoid them). **2004i:62001**
Goto, Masashi *see* **Isomura, Tatsuya et al.**
Graeb, Helmut *see* **Pronath, Michael et al., (2004h:00023)**
Grala, Jolanta (*with* Katulska, Krystyna) On the power of the maximum likelihood tests for multidimensional student's t-distributed data. (English summary)
Gupta, Arjun K. *see* **Ramanayake, Asoka, 2004i:62180**
Gupta, Pushpa Lata (*with* Gupta, Ramesh C.; Tripathi, Ram C.) Score test for zero inflated generalized Poisson regression model. (English summary)
Gupta, Ramesh C. *see* **Gupta, Pushpa Lata et al.**
Hamasaki, Toshimitsu *see* **Isomura, Tatsuya et al.**
Han, Karen E. (*with* Catalano, Paul J.; Senchaudhuri, Pralay; Mehta, Cyrus R.) Exact analysis of dose response for multiple correlated binary outcomes. (English and French summaries)
Han, Te Sun *see* **Burnashev, Marat V. et al., 2004c:62082**
Hara, Takahiko Invariant confidence sequences for slippage of normal means. (English summary) **2004k:62086**
Hardin, James W. *see* **Good, Phillip I., 2004i:62001**
Hartung, Joachim (*with* Knapp, Guido) Confidence regions on variance components in an extended ANOVA model for combining information. (English summary) **2004k:62173**
— (*with* Makambi, Kepher H.) Reducing the number of unjustified significant results in meta-analysis. (English summary) **2004h:62127**
Heiligers, Berthold *see* **Gaffke, Norbert et al., 2004a:62055**
Heimann, Günter *see* **Neuhaus, Georg et al., 2004j:62097**
Heo, Jungeun *see* **Ghosh, Malay, 2004b:62080**
Herranz Tejedor, I. *see* **Martín Andrés, A.** *and* **Errata: "The equivalence of two proportions revisited"**
Hirotsu, Chihiro *see* **Srivastava, Muni S. et al., (2004j:62008)**
Hocking, Ronald R. ★ Methods and applications of linear models. **2004b:62002**
Hong, Han (*with* Tamer, Elie) Inference in censored models with endogenous regressors. (English summary) **2004e:62036**
de la Horra Navarro, J. (*with* Rodriguez-Bernal, Maria Teresa) Bayesian robustness of the posterior predictive p-value. (English summary) **2004e:62061**
Hughes, James P. (*with* Totten, Patricia) Estimating the accuracy of polymerase chain reaction-based tests using endpoint dilution. (English and French summaries)
Imbens, Guido W. *see* **Donald, Stephen G. et al., 2004g:62045**
Ip, Wai Cheung (*with* Wong, Heung; Li, Yuan[2]; An, Hong-zhi) Testing and estimation of thresholds based on wavelets in heteroscedastic threshold autoregressive models. (English summary) **2004h:62158**
Isomura, Tatsuya (*with* Hamasaki, Toshimitsu; Goto, Masashi) Statistical issues in the drug evaluation process: some issues in applying the ICH guidelines. (English summary)
Jang, Junghoon *see* **Chung, Younshik et al., 2004m:62072**
Jansson, Michael Stationarity testing with covariates. (English summary) **2004k:62203**
Janžura, M. A central limit theorem for conditionally centred random fields with an application to testing statistical hypotheses. (English summary) **2004d:60058**
Jing, Bing-Yi (*with* Shao, Qi-Man; Wang, Qiying) Self-normalized Cramér-type large deviations for independent random variables. (English summary) **2004k:60069**
Kankainen, Annaliisa *see* **Taskinen, Sara et al., 2004c:62133**
Karlaftis, Matthew G. *see* **Washington, Simon P. et al., 2004f:62004**
Karrison, Theodore G. (*with* O'Brien, Peter C.) A rank-sum-type test for paired data with multiple endpoints. (English summary)
Katsis, Athanassios (*with* Toman, Blaza) Bayesian designs for binomial experiments. (English summary) (*see* **2004f:62019**)
— Sample size for testing homogeneity of two a priori dependent binomial populations using the Bayesian approach. (English summary) **2004k:62035**
Katulska, Krystyna *see* **Grala, Jolanta**
Khalaf, Lynda *see* **Dufour, Jean-Marie, (2004j:62006)**
Khattree, Ravindra *see* **Roy, Anuradha**

Khuri, André I. *see* **Ma, Chang-Xing et al., 2004j:92047**
Kibria, B. M. Golam (*with* Saleh, A. K. Md. Ehsanes) Effect of W, LR, and LM tests on the performance of preliminary test ridge regression estimators. (English summary) **2004m:62059**
— (*with* Saleh, A. K. Md. Ehsanes) Preliminary test ridge regression estimators with student's t errors and conflicting test-statistics. (English summary) **2004m:62158**
Kim, Hyang Mi (*with* Saleh, A. K. Md. Ehsanes) Preliminary test estimators of the parameters of simple linear model with measurement error. (English summary) **2004d:62096**
Knapp, Guido *see* **Hartung, Joachim, 2004k:62173**
Ko, Seoung-Gon *see* **Oh, Hyun Sook et al.**
Koebel, Bertrand M. (*with* Falk, Martin; Laisney, François) Imposing and testing curvature conditions on a Box-Cox cost function. (English summary) **2004b:62066**
Kotz, Samuel (*with* Lumelskii, Yan; Pensky, Marianna) ★ The stress-strength model and its generalizations. **2004c:62002**
Kurths, Jürgen *see* **Allefeld, Carsten**
Kwong, Koon Shing (*with* Cheung, Siu Hung; Chan, Wai-sum) Multiple testing to establish superiority/equivalence of a new treatment compared with k standard treatments for unbalanced designs. (English and French summaries)
Lagos, Bernardo M. About second order local power of the likelihood ratio, Wald and score statistics in first order autoregressive and moving average models. (English summary)
— (*with* Morettin, Pedro A.) Improvement of the likelihood ratio test statistic in ARMA models. (English summary) **2004m:62194**
Laisney, François *see* **Koebel, Bertrand M. et al., 2004b:62066**
Lambert, Philippe *see* **Vandenhende, François, 2004e:62121**
Landau, Sabine (*with* Ellison-Wright, I. C.; Bullmore, E. T.) Tests for a difference in timing of physiological response between two brain regions measured by using functional magnetic resonance imaging. (English summary)
Lee, Jack C. *see* **Lin, Shu-Hui, 2004d:62210**
Lee, Oesook *see* **Shin, Dong Wan, 2004d:62317** *and* **2004f:62176**
Levitan, Evgeny (*with* Merhav, Neri) A competitive Neyman-Pearson approach to universal hypothesis testing with applications. (English summary) **2004c:62052**
Li, Haihong[2] *see* **Basu, Ayanendranath et al.**
Li, Yuan[2] *see* **Ip, Wai Cheung et al., 2004h:62158**
Li, Zhaohai *see* **Xie, Min-Yu, 2004m:62166**
Lin, Pi Chuan (*with* Pearn, Wen-Lea; Chen, Kuen-Suan) Distributional properties and implications of the estimated process incapability index $\hat{C}_{pp}^n$. (English summary) **2004i:62177**
Lin, Shu-Hui (*with* Lee, Jack C.) Exact tests in simple growth curve models and one-way ANOVA with equicorrelation error structure. (English summary) **2004d:62210**
Lindsay, Bruce G. *see* **Basu, Ayanendranath et al.**
Ling, Shiqing Estimation and testing stationarity for double-autoregressive models. (English summary) **2004k:62205**
Littell, Ramon C. *see* **Ma, Chang-Xing et al., 2004j:92047**
Liu, Aiyi (*with* Schisterman, Enrique F.) Comparison of diagnostic accuracy of biomarkers with pooled assessments. (English summary) **2004f:62136**
Liu, Wei[4] A confidence interval that is consistent and more informative than a sequential equivalence test for a normal mean. (English summary) **2004f:62082**
Logan, Brent R. A cone order monotone test for the one-sided multivariate testing problem. (English summary) **2004e:62110**
Lumelskii, Yan *see* **Kotz, Samuel et al., 2004c:62002**
Lütkepohl, Helmut (*with* Saikkonen, Pentti; Trenkler, Carsten) Comparison of tests for the cointegrating rank of a VAR process with a structural shift. (English summary) **2004a:62163**
Ma, Chang-Xing (*with* Casella, George; Littell, Ramon C.; Khuri, André I.; Wu, Rongling) Exponential mapping of quantitative trait loci governing allometric relationships in organisms. (English summary) **2004j:92047**
Maasoumi, Esfandiar Parametric and nonparametric tests of limited domain and ordered hypotheses in economics. (*see* **2004j:62006**)
MaCurdy, Thomas E. (*with* Ryu, Keunkwan) Equivalence results in chi-square tests. (English summary) **2004g:62093**
Madan, Kailash C. *see* **Abu-Dayyeh, Walid A. et al., 2004k:62149**
Makambi, Kepher H. *see* **Hartung, Joachim, 2004h:62127**
Mannering, Fred L. *see* **Washington, Simon P. et al., 2004f:62004**
Marden, John (*with* Gao, Yonghong) Rank-based procedures for structural hypotheses on covariance matrices. (English summary) **2004k:62150**
Martín Andrés, A. (*with* Herranz Tejedor, I.) The equivalence of two proportions revisited. (English summary)
— *see also* **Errata: "The equivalence of two proportions revisited"**
Martinussen, Torben *see* **Scheike, Thomas H., 2004k:62240**
Mather, Katrina J. (*with* Rayner, J. C. W.) Testing equality of corresponding variances from multiple covariance matrices. (English summary)
Medeiros, Marcelo C. (*with* Veiga, Alvaro) Diagnostic checking in a flexible nonlinear time series model. (English summary)
Meester, Ronald (*with* Sjerps, Marjan) The evidential value in the DNA database search controversy and the two-stain problem. (English and French summaries)
Mehta, Cyrus R. *see* **Han, Karen E. et al.**
Merhav, Neri *see* **Levitan, Evgeny, 2004c:62052**
Mickey, Ruth M. (*with* Dunn, Olive Jean; Clark, Virginia A.) ★ Applied statistics. **2004k:62004**
Moosa, Imad A. (*with* Silvapulle, Param; Silvapulle, Mervyn) Testing for temporal asymmetry in the price-volume relationship. (English summary) **2004h:91106**
Morettin, Pedro A. *see* **Lagos, Bernardo M., 2004m:62194**
Mukerjee, Rahul *see* **Basu, Ruma et al., 2004e:62013**
Nadarajah, Saralees The Kotz-type distribution with applications. (English summary)
Nakanishi, Hiroko Tests of hypotheses for the distance between populations on the mixture of categorical and continuous variables. (English summary)
Nalawade, K. M. *see* **Shirke, D. T.**
Nechval, Konstantin N. *see* **Vasermanis, Edgars K. et al.**
Nechval, Nicholas A. *see* **Vasermanis, Edgars K. et al.**
Neuhaus, Georg (*with* Heimann, Günter; Zhu, Li-Xing) Optimal tests for carcinogenicity in a model with fatal and incidental tumours. (English summary) **2004j:62097**
Neuhäuser, Markus Tests for genetic differentiation. (English summary)
Newey, Whitney K. *see* **Donald, Stephen G. et al., 2004g:62045**
Nguyen, Nhu T. *see* **Dinh, Khoan T. et al., 2004c:62026**
Nguyen, Truc T. (*with* Dinh, Khoan T.) Characterizations of normal distributions and EDF goodness-of-fit tests. (English summary) **2004h:62026**
— *see also* **Dinh, Khoan T. et al., 2004c:62026**
Oaxaca, Ronald L. (*with* Geisler, Iris) Fixed effects models with time invariant variables: a theoretical note. (English summary) **2004e:62048**
O'Brien, Peter C. *see* **Karrison, Theodore G.**
Offinger, Robert *see* **Gaffke, Norbert et al., 2004a:62055**
Ogutu, J. O. *see* **Piepho, Hans-Peter**
Oh, Hyun Sook (*with* Ko, Seoung-Gon; Oh, Man-Suk) A Bayesian approach to assessing population bioequivalence in a 2×2 crossover design. (English summary)
Oh, Man-Suk *see* **Oh, Hyun Sook et al.**
Oja, Hannu *see* **Taskinen, Sara et al., 2004c:62133** *and* **Topchii, A. et al., 2004k:62151**
Park, Chanseok (*with* Basu, Ayanendranath) The generalized Kullback-Leibler divergence and robust inference. (English summary) **2004d:62120**
— *see also* **Basu, Ayanendranath et al.**
Pearn, Wen-Lea *see* **Lin, Pi Chuan et al., 2004i:62177**
Pensky, Marianna *see* **Kotz, Samuel et al., 2004c:62002**
Perron, Pierre (*with* Rodríguez, Gabriel) GLS detrending, efficient unit root tests and structural change. (English summary) **2004f:62173**
— *see also* **Bai, Jushan**
Phipps, Mary C. Inequalities between hypergeometric tails. (English summary) **2004f:60044**
Piepho, Hans-Peter (*with* Ogutu, J. O.) Inference for the break point in segmented regression with application to longitudinal data. (English summary)
Pison, Greet *see* **Willems, Gert et al., (2004a:62010)**
Pronath, Michael (*with* Graeb, Helmut; Antreich, Kurt) On parametric test design for analog integrated circuits considering error in measurement and stimulus. (English summary) (*see* **2004h:00023**)
Ramanayake, Asoka (*with* Gupta, Arjun K.) Tests for an epidemic change in a sequence of exponentially distributed random variables. (English summary) **2004i:62180**
Rayner, J. C. W. *see* **Mather, Katrina J.**
Riffi, Mohamed I. Defining a beta distribution function using a stopping time. (English summary) **2004k:60118**
Rodríguez, Gabriel *see* **Perron, Pierre, 2004f:62173**
Rodríguez-Bernal, Maria Teresa *see* **de la Horra Navarro, J., 2004e:62061**
Rousseeuw, Peter J. *see* **Willems, Gert et al., (2004a:62010)**
Roy, Anuradha (*with* Khattree, Ravindra) Tests for mean and covariance structures relevant in repeated measures based discriminant analysis. (English summary)
Ryu, Keunkwan *see* **MaCurdy, Thomas E., 2004g:62093**
Saikkonen, Pentti *see* **Lütkepohl, Helmut et al., 2004a:62163**
Sakiyama, Kenji (*with* Taniguchi, Masanobu) Testing composite hypotheses for locally stationary processes. (English summary) **2004f:62175**
Saleh, A. K. Md. Ehsanes *see* **Kim, Hyang Mi, 2004d:62096**; **Kibria, B. M. Golam, 2004m:62059** *and* **2004m:62158**
Sánchez, Ismael Efficient tests for unit roots with prediction errors. (English summary) **2004a:62165**
Sasabuchi, Syoichi (*with* Tanaka, Koji; Tsukamoto, Takeshi) Testing homogeneity of multivariate normal mean vectors under an order restriction when the covariance matrices are common but unknown. (English summary) **2004h:62056**
Scheike, Thomas H. (*with* Martinussen, Torben) On estimation and tests of time-varying effects in the proportional hazards model. (English summary) **2004k:62240**
Schisterman, Enrique F. *see* **Liu, Aiyi, 2004f:62136**
Sekiya, Yuri *see* **Taneichi, Nobuhiro et al., 2004a:62056**
Senchaudhuri, Pralay *see* **Han, Karen E. et al.**
Shao, Qi-Man *see* **Jing, Bing-Yi et al., 2004k:60069**
Shin, Dong Wan (*with* Lee, Oesook) Unit root tests for autoregressive moving average processes based on M-estimators. (English summary) **2004f:62176**
— (*with* Lee, Oesook) An instrumental variable approach for tests of unit roots and seasonal unit roots in asymmetric time series models. (English summary) **2004d:62317**
Shirke, D. T. (*with* Nalawade, K. M.) Estimation of the parameter of binomial distribution in presence of prior point information. (English summary)
da Silva e Souza, Geraldo The law of categorical judgment revisited. (English summary)
Silvapulle, Mervyn *see* **Moosa, Imad A. et al., 2004h:91106**
Silvapulle, Param *see* **Moosa, Imad A. et al., 2004h:91106**
Sjerps, Marjan *see* **Meester, Ronald**
Smyth, Gordon K. Pearson's goodness of fit statistic as a score test statistic. (English summary) **2004i:62135**
Srivastava, Muni S. (*with* Hirotsu, Chihiro; Aoki, Satoshi; Glimm, Ekkehard) Multivariate one-sided tests. (English summary) (*see* **2004j:62008**)
Storey, John D. (*with* Tibshirani, Robert) SAM thresholding and false discovery rates for detecting differential gene expression in DNA microarrays. (English summary) (*see* **2004e:62008**)
Suzukawa, Akio *see* **Taneichi, Nobuhiro et al., 2004a:62056**
Tamer, Elie *see* **Hong, Han, 2004e:62036**
Tanaka, Koji *see* **Sasabuchi, Syoichi et al., 2004h:62056**
Taneichi, Nobuhiro (*with* Sekiya, Yuri; Suzukawa, Akio) An asymptotic approximation for the distribution of φ-divergence multinomial goodness-of-fit statistic under local alternatives. (English summary) **2004a:62056**
Tang, Man-Lai *see* **Chan, Ivan S. F. et al.**
Tang, Nian-Sheng *see* **Chan, Ivan S. F. et al.**
Taniguchi, Masanobu *see* **Sakiyama, Kenji, 2004f:62175**
Taskinen, Sara (*with* Kankainen, Annaliisa; Oja, Hannu) Tests of independence based on sign and rank covariances. (English summary) **2004c:62133**

Taylor, A. M. Robert Locally optimal tests against unit roots in seasonal time series processes. (English summary) **2004i:62167**
— *see also* **Burridge, Peter**, **2004c:62177**
Thabane, Lehana (*with* Drekic, Steve) Properties of the non-central t-Bessel distribution and its applications. (English summary) **2004e:62028**
— (*with* Drekic, Steve) Testing linear hypotheses with a generalized multivariate modified Bessel error variable. (English summary) **2004j:62143**
Thode, Henry C., Jr. ★ Testing for normality. **2004d:62003**
Tibshirani, Robert *see* **Storey, John D.**, (**2004e:62008**)
Toman, Blaza *see* **Katsis, Athanassios**, (**2004f:62019**)
Topchii, A. (*with* Tyurin, Yu. N.; Oja, Hannu) Inference based on the affine invariant multivariate Mann-Whitney-Wilcoxon statistic. (English summary) **2004k:62151**
Totten, Patricia *see* **Hughes, James P.**
Trenkler, Carsten *see* **Lütkepohl, Helmut et al.**, **2004a:62163**
Tripathi, Ram C. *see* **Gupta, Pushpa Lata et al.**
Tsukamoto, Takeshi *see* **Sasabuchi, Syoichi et al.**, **2004h:62056**
Tyurin, Yu. N. *see* **Topchii, A. et al.**, **2004k:62151**
Van Aelst, Stefan *see* **Willems, Gert et al.**, (**2004a:62010**)
Vandenhende, François (*with* Lambert, Philippe) Improved rank-based dependence measures for categorical data. (English summary) **2004e:62121**
Vardeman, Stephen Bruce *see* **Dubinin, Thomas Michael**, **2004h:62050**
Vasermanis, Edgars K. (*with* Nechval, Konstantin N.; Nechval, Nicholas A.) Statistical validation of simulation models of observable systems. (English summary)
Veiga, Alvaro *see* **Medeiros, Marcelo C.**
Wang, Qiying *see* **Jing, Bing-Yi et al.**, **2004k:60069**
Washington, Simon P. (*with* Karlaftis, Matthew G.; Mannering, Fred L.) ★ Statistical and econometric methods for transportation data analysis. **2004f:62004**
Weir, B. S. *see* **Czika, Wendy**
Wellmann, Jürgen (*with* Gather, Ursula) Identification of outliers in a one-way random effects model. (English summary)
Wilcox, Rand R. Inferences based on a skipped correlation coefficient. (English summary)
— An extension of Stein's two-stage method to pairwise comparisons among dependent groups based on trimmed means. (English summary)
Willems, Gert (*with* Pison, Greet; Rousseeuw, Peter J.; Van Aelst, Stefan) A robust hotelling test. (English summary) (*see* **2004a:62010**)
Wong, Heung *see* **Ip, Wai Cheung et al.**, **2004h:62158**
Wu, Rongling *see* **Ma, Chang-Xing et al.**, **2004j:92047**
Xia, Jian-ming Dividing gains between a client and her agent. (English summary) **2004b:91111**
Xie, Min-Yu (*with* Li, Zhaohai) The optimal design for hypothesis test and its application in genetic linkage analysis. (English summary) **2004m:62166**
Yang, Tae Young *see* **Chung, Younshik et al.**, **2004m:62072**
Yu, Ke Ming *see* **Zhang, Jin[1]**
Zhang, Jin[1] (*with* Yu, Ke Ming) The null distribution of the likelihood-ratio test for two upper outliers in a gamma sample. (English summary)
Zhang, Ming-Heng (*with* Cheng, Qian Sheng) Gaussian mixture modelling to detect random walks in capital markets. (English summary)
Zhao, Lin Cheng Linear hypothesis testing in censored regression models. (English summary) **2004k:62131**
Zhu, Li-Xing *see* **Neuhaus, Georg et al.**, **2004j:62097**
Zieliński, Ryszard *see* **Berkoun, Youcef et al.**, **2004g:62153**

Items listed otherwise than by author

Errata:
"The equivalence of two proportions revisited" Erratum: "The equivalence of two proportions revisited" [J. Appl. Stat. **31** (2004), no. 1, 61–72] by A. Martín Andrés and I. Herranz Tejedor.

62F05 Asymptotic properties of tests

Anatolyev, Stanislav Inference when a nuisance parameter is weakly identified under the null hypothesis. (English summary)
Chikuse, Yasuko Some results in asymptotic theory on special manifolds.
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62F07 Ranking and selection

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Bacon, D. W. *see* **Sulieman, H. et al.**

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Baklizi, Ayman S. Shrinkage estimation of the common location parameter of several exponentials. (English summary)

Balakrishna, N. (*with* Jacob, T. M.) Parameter estimation in minification processes. (English summary) **2004d:62080**

Balakrishnan, Narayanaswamy *see* **Ng, H. K. T. et al., 2004e:62047**

Banerjee, Mousumi *see* **Basu, Sanjib[2] et al., 2004a:62059**

Baringhaus, Ludwig On unbiased estimation of positive integral powers of the natural parameter in exponential families. (English summary) **2004f:62061**

Basawa, Ishwar V. *see* **Park, Jeong-gun, 2004h:62048** *and* **Bhat, U. Narayan, (2004a:62006)**

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Bednarski, Tadeusz Estimation in the generalized Poisson model via robust testing. (English summary) (*see* **2004a:62010**)

Behboodian, Javad *see* **Zare, N. et al.**

Bekker, Paul (*with* Wansbeek, Tom) Identification in parametric models. (*see* **2004j:62006**)

Berger, Yves G. (*with* Tirari, Mohammed E. H.; Tillé, Yves) Towards optimal regression estimation in sample surveys. (English summary) **2004e:62040**

Bernardini Papalia, Rosa Generalized maximum entropy estimation of dynamic programming models with sample selection bias. (English summary)

Besbeas, Panagiotis (*with* Morgan, Byron J. T.) Integrated squared error estimation of normal mixtures. (English summary)

Best, D. J. (*with* Rayner, J. C. W.) Chi-squared components as tests of fit for discrete distributions. (English summary)

Bhansali, R. J. (*with* Kokoszka, P. S.) Estimation of the long-memory parameter: a review of recent developments and an extension. (English summary) **2004g:62042**

Bhat, U. Narayan (*with* Basawa, Ishwar V.) Maximum likelihood estimation in queueing systems. (English summary) (*see* **2004a:62006**)

Bhattacharya, Debasis (*with* Samaniego, Francisco J.; Vestrup, E. M.) On the comparative performance of Bayesian and classical point estimators under asymmetric loss. (English summary) **2004f:62062**

Bhoj, Dinesh S. Estimation of parameters of the Laplace distribution using ranked set sampling procedures. (English summary) (*see* **2004a:62006**)

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Biernacki, Christophe (*with* Chrétien, Stéphane) Degeneracy in the maximum likelihood estimation of univariate Gaussian mixtures with EM. (English summary) **2004c:62055**

Binder, David A. (*with* Roberts, Georgia R.) Design-based and model-based methods for estimating model parameters. (*see* **2004a:62008**)

Biswas, Atanu *see* **Sheng, Xiaoming et al.**

Bolfarine, Heleno (*with* Galea Rojas, Manuel) On structural comparative calibration with auxiliary information. (English summary) **2004d:62081**

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Brazauskas, Vytaras (*with* Serfling, Robert) Favorable estimators for fitting Pareto models: a study using goodness-of-fit measures with actual data. (English summary)

Butler, Steve *see* **Miloslavsky, Maja et al.**

Buttlar, William G. *see* **Lin, Nan et al.**

Cagetti, Marco Wealth accumulation over the life cycle and precautionary savings. (English summary)

Cai, Jianwen *see* **Chen, Jianwei et al., 2004m:62055**

Cai, Tianxi *see* **Pepe, Margaret Sullivan**

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— (*with* Huang, Yang Xin) Asymptotic analysis of an estimate for regression coefficients. (Chinese. English and Chinese summaries) **2004c:62056**

Capitanio, Antonella (*with* Azzalini, Adelchi; Stanghellini, Elena) Graphical models for skew-normal variates. (English summary) **2004c:62057**

Carrière, K. C. *see* **Sheng, Xiaoming et al.**

Chamberlain, Gary (*with* Imbens, Guido W.) Random effects estimators with many instrumental variables. (English summary)

Chang, Ted (*with* Tsai, Ming-Tien) Asymptotic relative Pitman efficiency in group models. (English summary) **2004c:62058**

Charnet, Reinaldo (*with* Gokhale, D. V.) Statistical inference for damaged Poisson distribution. (English summary)

Chatterjee, Snigdhansu (*with* Das, Samarjit) Parameter estimation in conditional heteroscedastic models. (English summary) **2004d:62082**

Chave, Alan D. (*with* Thomson, David J.) A bounded influence regression estimator based on the statistics of the hat matrix. (English summary)

Chen, Jianwei (*with* Cai, Jianwen; Zhou, Haibo) Two-step estimation for a generalized linear mixed model with auxiliary covariates. (English summary) **2004m:62055**

Chen, Li (*with* Poor, H. Vincent) Parametric estimation of quadratic term structure models of interest rates. (English summary)

Chen, Shun Hua *see* **Lü, Chun Lian, 2004f:62069**

Chen, Tuhao J. (*with* Gupta, Arjun K.; Troskie, Cas G.) The distribution of stock returns when the market is up. (English summary) **2004e:62041**
Cheng, Russell C. H. Threshold estimation in the log-gamma model. (English summary) **2004i:62040**
Chernozhukov, Victor (*with* Hong, Han) An MCMC approach to classical estimation. (English summary) **2004d:62083**
Chew, Ginger L. *see* **Gelman, Andrew et al.**
Chik, Zazli *see* **Hussin, Abdul Ghapor**
Chiu, S. N. (*with* Molchanov, Ilya S.; Quine, Malcolm) Maximum likelihood estimation for germination-growth processes with application to neurotransmitters data. (English summary)
Cho, Jang Sik (*with* Choi, Seung Bae) Independence test for bivariate Pareto distribution under bivariate type I censorship. (English summary)
Choi, Seung Bae *see* **Cho, Jang Sik**
Chong, Terence Tai-Leung Generic consistency of the break-point estimator under specification errors. (English summary) **2004d:62084**
Chow, Pao-Liu (*with* Khas′minskiĭ, Rafail Zalmanovich; Ovseevich, A. I.) Optimal input and asymptotically efficient estimation in some wave equations. (English summary) **2004k:62060**
Chrétien, Stéphane *see* **Biernacki, Christophe, 2004c:62055**
Ciuperca, Gabriela (*with* Ridolfi, Andrea; Idier, Jérôme) Penalized maximum likelihood estimator for normal mixtures. (English summary) **2004d:62085**
Clarke, G. P. Y. *see* **Haines, Linda M. et al.**
Cook, Richard J. *see* **Yi, Grace Y., (2004k:62018)**
Correa, José A. *see* **Qian, Lianfen, 2004b:62069**
Cribari-Neto, Francisco Asymptotic inference under hetroskedasticity of unknown form. (English summary)
— (*with* Zarkos, Spyros G.) Leverage-adjusted heteroskedastic bootstrap methods. (English summary)
Croux, Christophe (*with* Van Aelst, Stefan; Dehon, Catherine) Bounded influence regression using high breakdown scatter matrices. (English summary) **2004g:62043**
— (*with* Dehon, Catherine) Estimators of the multiple correlation coefficient: local robustness and confidence intervals. (English summary) **2004f:62063**
Cui, Heng-jian Estimation in partial linear EV models with replicated observations. (English summary) **2004k:62061**
Dabu, Xilatu Statistical estimation of parameters in fuzzy environments. (Chinese. English and Chinese summaries) **2004d:62086**
Das, Samarjit *see* **Chatterjee, Snigdhansu, 2004d:62082**
Davidian, Marie *see* **Li, Erning et al.**
Davidov, Ori (*with* Goldenshluger, A.) Fitting a line segment to noisy data. (English summary) **2004k:62062**
Dehon, Catherine *see* **Croux, Christophe et al., 2004f:62063** *and* **2004g:62043**
Denisov, Vladimir Ivanovich (*with* Lisitsin, D. V.) On the properties of estimates for the parameters of a regression model with elliptic distribution and a multiplicative covariance structure of errors. (Russian. Russian summary)
Díaz-Francés, Eloísa (*with* Sprott, David A.) Inference for the ratio of two normal means with unspecified variances. (English summary)
DiCiccio, Thomas J. (*with* Monti, Anna Clara) Inferential aspects of the skew exponential power distribution. (English summary)
Dietz, Hans M. (*with* Kutoyants, Yurii) Parameter estimation for some non-recurrent solutions of SDE. (English summary) **2004b:62059**
Dillane, Dominic *see* **Haslett, John, 2004k:62064**
Diniz, Carlos Alberto Ribeiro *see* **Zacharias, Helder Paulo et al., 2004c:62070**
Dinwoodie, I. H. (*with* Mosteig, Edward) Statistical inference for internal network reliability with spatial dependence. (English summary) **2004m:62056**
Dixit, Ulhas Jayram (*with* Ali, Mir Masoom; Woo, Jungsoo) Efficient estimation of parameters of a uniform distribution in the presence of outliers. (English summary) **2004j:62036**
Dixit, Vaijayanti U. Estimation of parameters of mixed failure time distribution based on an extended modified sampling scheme. (English summary) **2004g:62044**
Donald, Stephen G. (*with* Imbens, Guido W.; Newey, Whitney K.) Empirical likelihood estimation and consistent tests with conditional moment restrictions. (English summary) **2004g:62045**
Doucet, Arnaud (*with* Tadić, Vladislav B.) Parameter estimation in general state-space models using particle methods. (English summary)
Duchateau, Luc (*with* Janssen, Paul; Kezic, Iva; Fortpied, Catherine) Evolution of recurrent asthma event rate over time in frailty models. (English summary)
Durairajan, T. M. (*with* William, Martin L.) Nuisance parameter elimination and optimal estimating functions. (English summary) **2004f:62064**
Eickhoff, Jens C. *see* **Zhu, Jun[5] et al.**
Elashoff, Michael (*with* Ryan, Louise M.) An EM algorithm for estimating equations. (English summary)
El Bantli, Faouzi (*with* Hallin, Marc) Kolmogorov-Smirnov tests for AR models based on autoregression rank scores. (English summary) **2004h:62040**
El-Gohary, Awad I. *see* **Sarhan, Ammar M., 2004g:62049**
Ergün, Gül Gibbs sampling on a steady model. (English summary)
Erol, Hamza *see* **Akdeniz, Fikri, 2004j:62033**
Falk, Martin *see* **Koebel, Bertrand M. et al., 2004b:62066**
Fang, Ji Qian *see* **Jin, Hua et al., 2004h:62045**
Feddag, Mohand-Larbi (*with* Grama, Ion; Mesbah, Mounir) Generalized estimating equations (GEE) for mixed logistic models. (English summary) **2004d:62087**
Fei, He Liang *see* **Liu, Rongguan, 2004a:62063; Wang, Rong Hua[2], 2004k:62071** *and* **Xu, Xiao Ling**
Ferentinos, Kosmas *see* **Hatzinikolaou, Dimitris**
Ferraty, Frédéric (*with* Peuch, Agnès; Vieu, Philippe) Modèle à indice fonctionnel simple. (English and French summaries) [Single functional index model] **2004d:62088**
Ferré, L. (*with* Yao, A. F.) Functional sliced inverse regression analysis. (English summary) **2004i:62041**
Field, Christopher A. *see* **Sinha, Sanjoy K. et al., 2004e:62050**
Fitzmaurice, Garrett M. *see* **Lipsitz, Stuart R. et al.**
Forchini, Giovanni (*with* Hillier, Grant) Conditional inference for possibly unidentified structural equations. (English summary) **2004g:62046**
Fortpied, Catherine *see* **Duchateau, Luc et al.**
Fourdrinier, Dominique (*with* Strawderman, William E.; Wells, Martin T.) Robust shrinkage estimation for elliptically symmetric distributions with unknown covariance matrix. (English summary) **2004b:62060**
— (*with* Ouassou, Idir; Strawderman, William E.) Estimation of a parameter vector when some components are restricted. (English summary) **2004d:62089**
— (*with* Marchand, Eric; Strawderman, William E.) On the inevitability of a paradox in shrinkage estimation for scale mixtures of normals. (English summary) **2004j:62037**
Fraser, Donald A. S. (*with* Reid, Nancy; Li, Rongcai; Wong, Augustine C. M.) p-value formulas from likelihood asymptotics bridging the singularities. (English summary)
— (*with* Wong, Augustine C. M.; Wu, Jian Rong[1]) Simple accurate unique: the methods of modern likelihood theory. (English summary)
Friel, N. (*with* Pettitt, A. N.) Likelihood estimation and inference for the autologistic model. (English summary)
Frigessi di Rattalma, Arnoldo *see* **Heggland, Knut**
Fu, Wenjiang J. Penalized estimating equations. (English and French summaries) **2004c:62059**
Fujikoshi, Yasunori (*with* Noguchi, Takafumi; Ohtaki, Megu; Yanagihara, Hirokazu) Corrected versions of cross-validation criteria for selecting multivariate regression and growth curve models. (English summary) **2004g:62047**
Gaetan, Carlo (*with* Yao, Jian-Feng) A multiple-imputation Metropolis version of the EM algorithm. (English summary) **2004h:62041**
Galea Rojas, Manuel *see* **Bolfarine, Heleno, 2004d:62081**
Gannoun, Ali (*with* Girard, Stéphane; Guinot, Christiane; Saracco, Jérôme) Sliced inverse regression in reference curves estimation. (English summary)
Gao, Sujuan Combining binomial data using the logistic normal model. (English summary)
Gao, Wei[1] (*with* Shi, Ning-Zhong) I-projection onto isotonic cones and its applications to maximum likelihood estimation for log-linear models. (English summary) **2004j:62038**
— *see also* **Zhang, Bao Xue et al., 2004m:62066**
Gather, Ursula *see* **Wellmann, Jürgen**
Geisler, Iris *see* **Oaxaca, Ronald L., 2004e:62048**
Gelman, Andrew (*with* Chew, Ginger L.; Shnaidman, Michael) Bayesian analysis of serial dilution assays. (English and French summaries)
Genon-Catalot, Valentine (*with* Jeantheau, Thierry; Laredo, Catherine) Conditional likelihood estimators for hidden Markov models and stochastic volatility models. (English summary) **2004k:62063**
Geys, Helena (*with* Molenberghs, Geert; Ryan, Louise M.) Pseudo-likelihood estimation. (*see* **2004g:62010**)
Girard, Stéphane *see* **Gannoun, Ali et al.**
Gneri, Mario Antonio Resistant estimators for stationary ergodic stochastic processes. (English summary) **2004d:62090**
Gokhale, D. V. *see* **Charnet, Reinaldo**
Goldenshluger, A. *see* **Davidov, Ori, 2004k:62062**
Goto, Masashi *see* **Hamasaki, Toshimitsu, 2004d:62091**
Govaert, Gérard *see* **Nadif, Mohamed, (2004a:62009)**
Grama, Ion *see* **Feddag, Mohand-Larbi et al., 2004d:62087**
Gu, Juan (*with* Mao, Shi Song) Estimation of the parameter of stable distributions. (Chinese. English and Chinese summaries) **2004a:62060**
Guinot, Christiane *see* **Gannoun, Ali et al.**
Guo, Zi Lan *see* **Zhang, Chang Chun**
Gupta, Arjun K. *see* **Chen, Tuhao J. et al., 2004e:62041**
Gupta, Pratap Chandra *see* **Rajyaguru, Arti, 2004b:62070**
Gutiérrez Rubio, David *see* **López Blázquez, Fernando, 2004e:62044**
Haines, Linda M. (*with* O'Brien, T. E.; Clarke, G. P. Y.) Kurtosis and curvature measures for nonlinear regression models. (English summary)
Hall, Alastair R. Generalized method of moments. (*see* **2004j:62006**)
— (*with* Peixe, Fernanda P. M.) A consistent method for the selection of relevant instruments. (English summary) **2004f:62065**
— (*with* Inoue, Atsushi[4]; Peixe, Fernanda P. M.) Covariance matrix estimation and the limiting behavior of the overidentifying restrictions test in the presence of neglected structural instability. (English summary) **2004h:62042**
— (*with* Inoue, Atsushi[4]) The large sample behaviour of the generalized method of moments estimator in misspecified models. (English summary) **2004b:62061**
Hallin, Marc *see* **El Bantli, Faouzi, 2004h:62040**
Hamasaki, Toshimitsu (*with* Goto, Masashi) Statistical inferences of grouped data combined with ungrouped data from the power-normal distribution. (English summary) **2004d:62091**
Handa, B. R. *see* **Kambo, N. S.**
Hanfelt, John J. Conditioning to reduce the sensitivity of general estimating functions to nuisance parameters. (English summary) **2004h:62043**
Hara, Hisayuki Estimating a covariance matrix in Manova model. (English summary) **2004d:62092**
Haslett, John (*with* Dillane, Dominic) Application of 'delete=replace' to deletion diagnostics for variance component estimation in the linear mixed model. (English summary) **2004k:62064**
Hassan, Anwar (*with* Mishra, Amarendra; Jan, T. R.) A quick method for estimating generalized geometric series distribution. (English summary) **2004a:62061**
Hatzinikolaou, Dimitris (*with* Ferentinos, Kosmas) On the role of semielasticity in statistics. (English summary)
Haughton, Dominique M. A. *see* **Keribin, C., 2004b:62065**
He, Chun *see* **Jin, Hua et al., 2004h:62045**
He, Shu-yuan (*with* Yang, Grace L.) Estimation of regression parameters with left truncated data. (English summary) **2004h:62044**
He, Xuming *see* **Lin, Nan et al.**
He, Zhisong *see* **Kabaila, Paul**
Hebert, Jaimie L. (*with* Scariano, Stephen M.) Comparing location estimators for exponential mixtures under Pitman's measure of closeness. (English summary) **2004m:62057**

Heggland, Knut (*with* Frigessi di Rattalma, Arnoldo) Estimating functions in indirect inference. (English summary)
von Heydebreck, Anja (*with* Huber, Wolfgang[2]; Poustka, Annemarie; Vingron, Martin) Variance stabilization and robust normalization for microarray gene expression data. (English summary) (*see* **2004a:62009**)
Hili, Ouagnina Hellinger distance estimation of nonlinear dynamical systems. (English summary) **2004d:62093**
Hill, R. Carter (*with* Adkins, Lee C.) Collinearity. (*see* **2004j:62006**)
Hillier, Grant *see* **Forchini, Giovanni**, **2004g:62046**
the HNRC Group *see* **Abramson, Ian et al.**, **2004e:62038**
Hong, Han *see* **Chernozhukov, Victor**, **2004d:62083**
Hong, Yu-zheng Local optimization of observed points with no need to observations. (English summary)
Honoré, Bo E. (*with* Hu, Luojia) On the performance of some robust instrumental variables estimators. (English summary)
Horowitz, Joel L. (*with* Manski, Charles F.) Identification and estimation with incomplete data. (English summary) (*see* **2004f:62019**)
— (*with* Manski, Charles F.; Ponomareva, Maria; Stoye, Jörg) Computation of bounds on population parameters when the data are incomplete. (English summary)
Horton, Nicholas J. (*with* Lipsitz, Stuart R.; Parzen, Michael) A potential for bias when rounding in multiple imputation. (English summary)
Horváth, Lajos (*with* Hušková, Marie) Kernel type estimators for gradual changes. **2004d:62094**
Hou, Shui Hung *see* **Pang, Wan-Kai et al.**
Hu, Luojia *see* **Honoré, Bo E.**
Huang, Mei-Ling[1] The risks of the estimators for the R distributions. (English summary) **2004b:62062**
— The efficiencies of the estimators for the D distribution. (English summary) **2004g:62048**
Huang, Ping-Huang *see* **Hwang, Tea-Yuan**, **2004a:62062**
Huang, Yang Xin *see* **Cai, Xin Min**, **2004c:62056**
Huber, Wolfgang[2] *see* **von Heydebreck, Anja et al.**, (**2004a:62009**)
Hui, Yer Van *see* **Lu, Zu-di et al.**, **2004i:62043**
Hušková, Marie *see* **Horváth, Lajos**, **2004d:62094**
Hussin, Abdul Ghapor (*with* Chik, Zazli) On estimating error concentration parameter for circular functional model. (English summary)
Hwang, Tea-Yuan (*with* Huang, Ping-Huang) On new moment estimation of parameters of the gamma distribution using its characterization. (English summary) **2004a:62062**
Ibrahim, Joseph G. *see* **Stubbendick, Amy L.** *and* **Lipsitz, Stuart R. et al.**
Idier, Jérôme *see* **Ciuperca, Gabriela et al.**, **2004d:62085**
Iliopoulos, George Estimation of parametric functions in Downton's bivariate exponential distribution. (English summary) **2004f:62066**
Imbens, Guido W. *see* **Donald, Stephen G. et al.**, **2004g:62045** *and* **Chamberlain, Gary**
Inoue, Atsushi[4] *see* **Hall, Alastair R. et al.**, **2004b:62061** *and* **2004h:62042**
Ip, Edward H. Locally dependent latent trait model and the Dutch identity revisited. (English summary) **2004c:62060**
Ip, Wai Cheung *see* **Shao, Quanxi et al.**
Jacob, T. M. *see* **Balakrishna, N.**, **2004d:62080**
Jajo, Nethal K. (*with* Matawie, Kenan M.; Wu, Xizhi) Adaptive M-estimation procedure: adequacy and alternative approach. (English summary)
Jammalamadaka, Sreenivasa Rao *see* **Basu, Sanjib[2]**, (**2004a:62006**)
Jan, T. R. *see* **Hassan, Anwar et al.**, **2004a:62061**
Janssen, Paul *see* **Duchateau, Luc et al.**
Jeantheau, Thierry *see* **Genon-Catalot, Valentine et al.**, **2004k:62063**
Jeske, Daniel R. (*with* Sampath, Ashwin) Estimation of clock offset using bootstrap bias-correction techniques. (English summary)
Jin, Hua (*with* He, Chun; Fang, Ji Qian) A structural regression model under exchangeability conditions. (Chinese. English and Chinese summaries) **2004h:62045**
Jin, Yan Fei *see* **Li, Jiao Rui et al.**
Jondeau, Eric (*with* Rockinger, Michael) Conditional volatility, skewness, and kurtosis: existence, persistence, and comovements. (English summary) **2004d:62095**
Jørgensen, Bent (*with* Knudsen, Svend Jesper) Parameter orthogonality and bias adjustment for estimating functions. **2004b:62063**
— (*with* Knudsen, Svend Jesper) Parameter orthogonality and bias adjustment for estimating functions. (English summary) **2004k:62065**
Joshi, Suneeta M. *see* **Shah, Mangala M.**
Jukić, Dragan A necessary and sufficient criteria for the existence of the least squares estimate for a 3-parametric exponential function. (English summary) **2004h:62046**
Jupp, Peter E. Aspects of differential geometry in parametric inference. (*see* **2004a:62014**)
Jurečková, Jana (*with* Sen, Pranab Kumar[1]) Asymptotically minimum risk equivariant estimators. (English summary) (*see* **2004j:62008**)
Kaaouachi, A. *see* **Allal, J.**, **2004d:62078**
Kabaila, Paul (*with* He, Zhisong) The adjustment of prediction intervals to account for errors in parameter estimation. (English summary)
Kagan, Abram An inequality for the Pitman estimators related to the Stam inequality. (English summary) **2004m:62058**
Kaiser, Mark S. *see* **Zhu, Jun[5] et al.**
Kalwij, Adriaan S. A maximum likelihood estimator based on first differences for a panel data Tobit model with individual specific effects. (English summary)
Kamakura, Toshinari *see* **Nagatsuka, Hideki**, **2004k:62067**
Kambo, N. S. (*with* Handa, B. R.) Estimation of the minimum and maximum of truncation parameters of two nonregular distributions using censored samples. (English summary)
Kantam, R. R. L. *see* **Rosaiah, K. et al.**
Kao, Chung-Siung An asymptotic measure of accuracy effect from censorship in parametric estimation. (English summary) **2004c:62061**
Karaca-Mandic, Pinar (*with* Train, Kenneth E.) Standard error correction in two-stage estimation with nested samples. (English summary)
Karavas, Vassilios N. (*with* Moffitt, L. Joe) Evolutionary computation of a deterministic switching regressions estimator. (English summary)
Kato, Takeshi[1] (*with* Masry, Elias) A time-domain semi-parametric estimate for strongly dependent continuous-time stationary processes. (English summary) **2004i:62042**
Keleş, Sündüz *see* **Miloslavsky, Maja et al.**
Kenward, Michael G. (*with* Molenberghs, Geert; Thijs, Herbert) Pattern-mixture models with proper time dependence. (English summary) **2004b:62064**
Keribin, C. (*with* Haughton, Dominique M. A.) Asymptotic probabilities of over-estimating and under-estimating the order of a model in general regular families. (English summary) **2004b:62065**
Kezic, Iva *see* **Duchateau, Luc et al.**
Keziou, Amor Dual representation of φ-divergences and applications. (English and French summaries)
Khan, B. U. (*with* Ahmed, S. E.) Improved estimation of coefficient vector in a regression model. (English summary) **2004h:62047**
Khan, Rasul A. A note on Hammersley's inequality for estimating the normal integer mean. (English summary) **2004e:62042**
Khas′minskiĭ, Rafail Zalmanovich *see* **Chow, Pao-Liu et al.**, **2004k:62060**
Kibria, B. M. Golam (*with* Saleh, A. K. Md. Ehsanes) Effect of W, LR, and LM tests on the performance of preliminary test ridge regression estimators. (English summary) **2004m:62059**
Kim, Dongseok *see* **Amemiya, Takeshi**, (**2004k:62015**)
Kim, Hyang Mi (*with* Saleh, A. K. Md. Ehsanes) Preliminary test estimators of the parameters of simple linear model with measurement error. (English summary) **2004d:62096**
Kim, Jong Sung[2] Maximum likelihood estimation for the proportional hazards model with partly interval-censored data. (English summary) **2004d:62097**
King, Maxwell L. *see* **Laskar, Mizan R.**, (**2004j:62008**)
Knudsen, Svend Jesper *see* **Jørgensen, Bent**, **2004b:62063** *and* **2004k:62065**
Koebel, Bertrand M. (*with* Falk, Martin; Laisney, François) Imposing and testing curvature conditions on a Box-Cox cost function. (English summary) **2004b:62066**
Koivunen, Visa *see* **Ollila, Esa et al.**, **2004a:62064**
Kokoszka, P. S. *see* **Bhansali, R. J.**, **2004g:62042**
Korkhin, A. S. (*with* Mizernyĭ, V. N.) On fuzzy estimation of regression parameters. (Russian. English summary)
Korostelev, A. P. (*with* Rukhin, Andrew. L.) Bahadur risk in recursive estimates for a multidimensional parameter. (Russian. Russian summary) **2004e:62043**
Kovalevskiĭ, A. P. *see* **Zakrevskaya, N. S.**, **2004b:62072**
Kowalski, Jeanne (*with* Tu, Xin Ming) Trend analysis with response incompatible formats and measurement error. (English summary)
Kozachenko, Yurii V. (*with* Kurchenko, Oleksandr O.) An estimate for the multiparameter FBM. (English summary) **2004j:62039**
Kroese, D. P. (*with* Rubinstein, R. Y.) The transform likelihood ratio method for rare event simulation with heavy tails. (English summary)
Krzanowski, W. J. *see* **Ahmed, S. E.**
Kubáček, Lubomír Linearized models with constraints of type I. (English summary) **2004c:62062**
Kukush, A. G. (*with* Markovsky, I.; Van Huffel, Sabine) Consistent estimation in the bilinear multivariate errors-in-variables model. (English summary) **2004d:62098**
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Kundu, Debasis (*with* Nandi, Swagata[2]) Estimating the number of components by a data independent penalty function approach. (English summary) **2004f:62067**
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Kurchenko, Oleksandr O. Confidence intervals and rate of convergence for the estimates of Hurst parameter of the FBM. (English summary) **2004m:62061**
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Kutoyants, Yurii *see* **Dietz, Hans M.**, **2004b:62059**
van der Laan, Mark J. *see* **Miloslavsky, Maja et al.**
Lai, Tze Leung (*with* Shih, Mei-Chiung) A hybrid estimator in nonlinear and generalised linear mixed effects models. (English summary) **2004j:62040**
Laisney, François *see* **Koebel, Bertrand M. et al.**, **2004b:62066**
Laredo, Catherine *see* **Genon-Catalot, Valentine et al.**, **2004k:62063**
Larsson, Erik G. (*with* Larsson, Erik K.) The Cramér-Rao bound for continuous-time autoregressive parameter estimation with irregular sampling. (English summary) **2004b:62067**
Larsson, Erik K. *see* **Larsson, Erik G.**, **2004b:62067**
Laskar, Mizan R. (*with* King, Maxwell L.) Modified likelihood and related methods for handling nuisance parameters in the linear regression model. (English summary) (*see* **2004j:62008**)
Lee, Andy H. *see* **Lu, Zu-di et al.**, **2004i:62043**
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Ling, Shiqing (*with* Li, Wai-Keung; McAleer, Michael) Estimation and testing for unit root processes with GARCH (1, 1) errors: theory and Monte Carlo evidence. (English summary) **2004f:62068**
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Liu, Jin Shan[1] Two-stage estimators of seemingly unrelated regressions with elliptical distribution. (English summary) **2004c:62063**
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Liu, Xiao Mao (*with* Zhang, Jun[7]) A generalized root power estimator for regression coefficients in growth curve models. (Chinese. English and Chinese summaries) **2004b:62068**
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López Blázquez, Fernando (*with* Gutiérrez Rubio, David) Unbiased estimation in the multivariate natural exponential family with simple quadratic variance function. (English summary) **2004e:62044**
Lü, Chun Lian (*with* Chen, Shun Hua) Estimation of parameters in mixed models by using layer triangular transformation. (Chinese. English summary) **2004f:62069**
Lu, Guobing Local sensitivity analysis of model misspecification. (English summary) **2004m:62062**
Lu, Zu-di (*with* Hui, Yer Van; Lee, Andy H.) Minimum Hellinger distance estimation for finite mixtures of Poisson regression models and its applications. (English and French summaries) **2004i:62043**
Ma, Yanping (*with* Shi, Ning-Zhong) Quadratic loss of isotonic normal means under simultaneous order restrictions. (English summary) **2004e:62045**
Machado, Matilde P. A consistent estimator for the binomial distribution in the presence of "incidental parameters": an application to patent data. (English summary) **2004k:62066**
Madi, Mohamed T. (*with* Raqab, Mohammad Z.) Bayesian prediction for the shifted exponential distribution using doubly censored data. (English summary)
Manolakos, Elias S. *see* **Andrade, Lucio**
Manski, Charles F. *see* **Horowitz, Joel L. et al.**, (**2004f:62019**)
Mao, Shi Song *see* **Gu, Juan**, **2004a:62060**
Marchand, Eric *see* **Fourdrinier, Dominique et al.**, **2004j:62037**
Markovsky, I. *see* **Kukush, A. G. et al.**, **2004d:62098**
Martinussen, Torben *see* **Skovgaard, Ib M. et al.**, **2004k:62070**
Maruyama, Yuzo A robust generalized Bayes estimator improving on the James-Stein estimator for spherically symmetric distributions. (English summary) **2004d:62100**
Masry, Elias *see* **Kato, Takeshi**[1], **2004i:62042**
Matawie, Kenan M. *see* **Jajo, Nethal K. et al.**
Matsumura, Naoto Applicability of height curves derived from the theory of column buckling. (Japanese. English and Japanese summaries)
McAleer, Michael *see* **Ling, Shiqing et al.**, **2004f:62068**
McDunnough, Philip (*with* Naderi, Amir) Likelihood map and minimal sufficiency: the intertwined concepts. (English summary) **2004m:62063**
McLellan, P. J. *see* **Sulieman, H. et al.**
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Mesbah, Mounir *see* **Feddag, Mohand-Larbi et al.**, **2004d:62087**
Mi, Jie (*with* Naranjo, Arlene) Inferences about the scale parameter of the gamma distribution based on data mixed from censoring and grouping. (English summary) **2004c:62064**
Miglioretti, Diana L. Latent transition regression for mixed outcomes. (English and French summaries)
Mills, Peter Michael *see* **Simeoni, Ricardo Joseph**, **2004d:62104**
Miloslavsky, Maja (*with* Keleş, Sündüz; van der Laan, Mark J.; Butler, Steve) Recurrent events analysis in the presence of time-dependent covariates and dependent censoring. (English summary)
Mishra, Amarendra *see* **Hassan, Anwar et al.**, **2004a:62061**
Miyazaki, Koichi (*with* Tsubaki, Hiroe) On selection of moment conditions in GMM from viewpoints of quasi-likelihood. (English summary) **2004d:62101**
Mizernyĭ, V. N. *see* **Korkhin, A. S.**
Moffitt, L. Joe *see* **Karavas, Vassilios N.**
Mohammad-Djafari, Ali *see* **Snoussi, Hichem**, **2004a:62065**
Molchanov, Ilya S. *see* **Chiu, S. N. et al.**
Molenberghs, Geert *see* **Kenward, Michael G. et al.**, **2004b:62064** *and* **Geys, Helena et al.**, (**2004g:62010**)
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Monti, Anna Clara A note on the estimation of the skew normal and the skew exponential power distributions. (English summary)
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Moral-Arce, Ignacio *see* **Rodríguez-del-Bosque, Ignacio et al.**, (**2004a:62009**)
Morgan, Byron J. T. *see* **Besbeas, Panagiotis**
Morita, Tsukio (*with* Tanaka, Yutaka[1]) Sensitivity analysis in latent class analysis. (English summary)
Mosteig, Edward *see* **Dinwoodie, I. H.**, **2004m:62056**
Moustafa, H. M. (*with* Ramadan, S. G.) On MLE of a nonlinear discriminant function from a mixture of two Gompertz distributions based on small sample size. (English summary) **2004j:62041**
Mukherjee, Kanchan *see* **Bose, Arup**, **2004j:62035**
Mukhopadhyay, Nitis On a two-stage procedure with higher than second-order approximations. (English summary) **2004e:62046**
Mukhopadhyay, Parimal Small area estimation under random coefficient regression models with measurement error. (English summary)
Müller, Christine H. *see* **Neykov, N. M.**, **2004d:62102**
Müller, Peter[2] *see* **Lopes, Hedibert Freitas et al.**, **2004d:62099**
Muttlak, Hassen A. *see* **Rakhimov, I. U.**, **2004c:62067** *and* **Abu-Dayyeh, Walid A. et al.**
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Nadif, Mohamed (*with* Govaert, Gérard) Parameters estimation of block mixture models. (English summary) (*see* **2004a:62009**)
Nagatsuka, Hideki (*with* Kamakura, Toshinari) Parameter estimation of the shape parameter of the Castillo-Hadi model. (English summary) **2004k:62067**
Nalawade, K. M. *see* **Shirke, D. T.**
Namba, Akio PMSE dominance of the positive-part shrinkage estimator in a regression model when relevant regressors are omitted. (English summary) **2004f:62070**
Nandi, Swagata[2] *see* **Kundu, Debasis**, **2004f:62067**
Naranjo, Arlene *see* **Mi, Jie**, **2004c:62064**
Narasimham, V. L. *see* **Rosaiah, K. et al.**
Natarajan, Sundar *see* **Lipsitz, Stuart R. et al.**
Neumann, Konrad (*with* Zontek, Stefan) On geometry of the set of admissible invariant quadratic estimators in balanced two variance components model. (English summary) **2004j:62042**
Newey, Whitney K. *see* **Donald, Stephen G. et al.**, **2004g:62045**
Neykov, N. M. (*with* Müller, Christine H.) Breakdown point and computation of trimmed likelihood estimators in generalized linear models. (English summary) **2004d:62102**
Ng, H. K. T. (*with* Kundu, Debasis; Balakrishnan, Narayanaswamy) Modified moment estimation for the two-parameter Birnbaum-Saunders distribution. (English summary) **2004e:62047**
Ni, Jian Cheng *see* **Zhao, Sheng Li**
Nittner, Thomas *see* **Schneeweiss, Hans**, (**2004j:62008**)
Noguchi, Takafumi *see* **Fujikoshi, Yasunori et al.**, **2004g:62047**
Oaxaca, Ronald L. (*with* Geisler, Iris) Fixed effects models with time invariant variables: a theoretical note. (English summary) **2004e:62048**
O'Brien, T. E. *see* **Haines, Linda M. et al.**
Ohtaki, Megu *see* **Fujikoshi, Yasunori et al.**, **2004g:62047**
Oja, Hannu *see* **Ollila, Esa et al.**, **2004a:62064**
Ollila, Esa (*with* Oja, Hannu; Koivunen, Visa) Estimates of regression coefficients based on lift rank covariance matrix. (English summary) **2004a:62064**
Oluyede, Broderick O. *see* **Terbeche, Mekki**, **2004d:62106**
Orlova, E. N. *see* **Melenets, Yu. V.**
Ouassou, Idir *see* **Fourdrinier, Dominique et al.**, **2004d:62089**
Ovseevich, A. I. *see* **Chow, Pao-Liu et al.**, **2004k:62060**
Pace, Luigi (*with* Salvan, Alessandra) On modifications of the profile likelihood. (*see* **2004a:62014**)
Pandey, R. J. *see* **Anis, M. Z.**
Pang, Wan-Kai (*with* Hou, Shui Hung; Yu, Bosco W. T.; Li, Ken W. K.) A simulation based approach to the parameter estimation for the three-parameter gamma distribution. (English summary)
Park, Chanseok *see* **Basu, Ayanendranath et al.**
Park, Jeong-gun (*with* Basawa, Ishwar V.) Optimal estimating equations for mixed effects models with dependent observations. (English summary) **2004h:62048**
Parzen, Michael *see* **Horton, Nicholas J. et al.** *and* **Lipsitz, Stuart R. et al.**
Paul, Sudhir R. Estimation of regression and dispersion parameters in the analysis of proportions. (English summary) (*see* **2004a:62006**)
Paulauskas, Vygantas A new estimator for a tail index. (English summary) **2004i:62044**
Peixe, Fernanda P. M. *see* **Hall, Alastair R. et al.**, **2004f:62065** *and* **2004h:62042**
Peng, Liang Bias-corrected estimators for monotone and concave frontier functions. (English summary) **2004j:62043**
Pepe, Margaret Sullivan (*with* Cai, Tianxi) The analysis of placement values for evaluating discriminatory measures. (English and French summaries)
Perote, Javier (*with* Perote-Peña, Juan) Strategy-proof estimators for simple regression. (English summary) **2004k:62068**
Perote-Peña, Juan *see* **Perote, Javier**, **2004k:62068**
Pettitt, A. N. *see* **Friel, N.**
Peuch, Agnès *see* **Ferraty, Frédéric et al.**, **2004d:62088**
Piacenza, Massimiliano (*with* Vannoni, Davide) Choosing among alternative cost function specifications: an application to Italian multi-utilities. (English summary)
Picard, Dominique (*with* Tribouley, Karine) Evolutionary Pareto distributions. (English and French summaries) **2004c:62066**
Piot, Michel Minimum distance estimation in AR(1)-processes. (English summary) **2004k:62069**
Pison, Greet (*with* Van Aelst, Stefan; Willems, Gert) Small sample corrections for LTS and MCD. (English summary) (*see* **2004a:62010**)
Pitselis, Georgios A seemingly unrelated regression model in a credibility framework. (English summary) **2004i:62045**
Ponomareva, Maria *see* **Horowitz, Joel L. et al.**
Poor, H. Vincent *see* **Chen, Li**
Pötzelberger, Klaus (*with* Sögner, Leopold) Stochastic equilibrium: learning by exponential smoothing. (English summary) **2004e:62049**
Pouloukas, Stavros Estimation and comparison of lognormal parameters in the presence of censored data. (English summary)
Poustka, Annemarie *see* **von Heydebreck, Anja et al.**, (**2004a:62009**)
Prabhakar Rao, R. *see* **Sutradhar, Brajendra C.**
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Qian, Lianfen (*with* Correa, José A.) Estimation of Weibull parameters for grouped data with competing risks. (English summary) **2004b:62069**

Qian, Wei Min (*with* Wang, Juan) Statistical analysis of a kind of mixed effects model. (Chinese. English and Chinese summaries)

Quine, Malcolm *see* **Chiu, S. N. et al.**

Rajyaguru, Arti (*with* Gupta, Pratap Chandra) On the estimation of the coefficient of variation from finite population. I. (English summary) **2004b:62070**

Rakhimov, I. U. (*with* Muttlak, Hassen A.) Investigating the estimation of the population mean using random ranked set samples. (English summary) **2004c:62067**

Ramadan, S. G. *see* **Moustafa, H. M., 2004j:62041**

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Rastogi, N. *see* **Singh, R. Karan, 2004g:62050**

Rayner, J. C. W. *see* **Best, D. J.**

Reid, Nancy *see* **Fraser, Donald A. S. et al.**

Ridolfi, Andrea *see* **Ciuperca, Gabriela et al., 2004d:62085**

Roberts, Georgia R. *see* **Binder, David A., (2004a:62008)**

Rockinger, Michael *see* **Jondeau, Eric, 2004d:62095**

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Rodríguez-Póo, Juan *see* **Rodríguez-del-Bosque, Ignacio et al., (2004a:62009)**

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Rosner, Gary L. *see* **Lopes, Hedibert Freitas et al., 2004d:62099**

Roy, Jason Modeling longitudinal data with nonignorable dropouts using a latent dropout class model. (English and French summaries)

Rubinstein, R. Y. *see* **Kroese, D. P.**

Rukhin, Andrew. L. *see* **Korostelev, A. P., 2004e:62043**

Ryan, Louise M. *see* **Geys, Helena et al., (2004g:62010)** *and* **Elashoff, Michael**

Sahai, Ashok On an estimator of normal population mean and UMVU estimation of its relative efficiency. (English summary)

Sain, Stephan R. *see* **Woodward, Wayne A.**

Saleh, A. K. Md. Ehsanes *see* **Kim, Hyang Mi, 2004d:62096** *and* **Kibria, B. M. Golam, 2004m:62059**

Salvan, Alessandra *see* **Pace, Luigi, (2004a:62014)**

Samaniego, Francisco J. *see* **Bhattacharya, Debasis et al., 2004f:62062**

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Saracco, Jérôme *see* **Gannoun, Ali et al.**

Sarhan, Ammar M. (*with* El-Gohary, Awad I.) Parameter estimations of 1-out-of-2: *G* repairable system. (English summary) **2004g:62049**

— Parameter estimations in linear failure rate model using masked data. (English summary) **2004m:62064**

Scariano, Stephen M. *see* **Hebert, Jaimie L., 2004m:62057**

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Sen, Ananda *see* **Basu, Sanjib[2] et al., 2004a:62059**

Sen, Pranab Kumar[1] *see* **Jurečková, Jana, (2004j:62008)**

Serdobol'skiĭ, V. I. Shrinkage estimates for reducing quadratic risk. (Russian) **2004f:62071**

Serfling, Robert *see* **Brazauskas, Vytaras**

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Shi, Ning-Zhong (*with* Wang, De Hui) Median unbiased and maximum likelihood estimations of ARCH(0, 1) coefficient. (English summary) **2004d:62103**

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Shi, Xiao-lin *see* **Xu, Yong[3] et al., 2004k:62072**

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Shih, Mei-Chiung *see* **Lai, Tze Leung, 2004j:62040**

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Shnaidman, Michael *see* **Gelman, Andrew et al.**

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Simeoni, Ricardo Joseph (*with* Mills, Peter Michael) Advantages of using multiple regression for discrete Fourier analysis. (English summary) **2004d:62104**

Singer, Julio Motta *see* **Aoki, Reiko et al.**

Singh, Housila Prasad (*with* Shukla, Sushil K.) A family of shrinkage estimators for the square of mean in normal distribution. **2004m:62065**

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Singh, Sarjinder *see* **Arnab, Raghunath, 2004d:62079**

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Skovgaard, Ib M. (*with* Martinussen, Torben; Andersen, Stina W.) On the use of a parameter dependent group structure for inference. (English summary) **2004k:62070**

Smith, Bruce Ralph *see* **Sinha, Sanjoy K. et al., 2004e:62050**

Snoussi, Hichem (*with* Mohammad-Djafari, Ali) Penalized maximum likelihood for multivariate Gaussian mixture. (English summary) **2004a:62065**

Sögner, Leopold *see* **Pötzelberger, Klaus, 2004e:62049**

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Sørensen, Helle Simulated likelihood approximations for stochastic volatility models. (English summary) **2004d:62105**

Spiegelman, Donna *see* **Zucker, David M.**

Sprott, David A. *see* **Díaz-Francés, Eloísa**

Stanghellini, Elena *see* **Capitanio, Antonella et al., 2004c:62057**

Stoye, Jörg *see* **Horowitz, Joel L. et al.**

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— On a relation between a family of distributions attaining the Bhattacharyya bound and that of linear combinations of the distributions from an exponential family. (English summary) **2004j:62044**

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Terbeche, Mekki (*with* Oluyede, Broderick O.) Fixed and sequential designs for estimation in the exponential family with comparisons and applications to binomial proportions using beta priors. (English summary) **2004d:62106**

Thijs, Herbert *see* **Kenward, Michael G. et al., 2004b:62064**

Thomson, David J. *see* **Chave, Alan D.**

Tillé, Yves *see* **Berger, Yves G. et al., 2004e:62040**

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Toda, Koichiro (*with* Yamato, Hajime) Berry-Esseen bounds for some statistics including LB-statistic and V-statistic. (English summary) **2004c:62069**

— (*with* Yamato, Hajime) Rates of convergence in distribution of a linear combination of *U*-statistics for non-degenerate kernel. (English summary) **2004e:62052**

Train, Kenneth E. *see* **Karaca-Mandic, Pinar**

Tribouley, Karine *see* **Picard, Dominique, 2004c:62066**

Tripathi, Y. M. *see* **Kumar, Somesh, 2004m:62060**

Troskie, Cas G. *see* **Chen, Tuhao J. et al., 2004e:62041**

Tsai, Ming-Tien *see* **Chang, Ted, 2004c:62058**

Tsubaki, Hiroe *see* **Miyazaki, Koichi, 2004d:62101**

Tu, Xin Ming *see* **Kowalski, Jeanne**

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Van Aelst, Stefan *see* **Croux, Christophe et al., 2004g:62043** *and* **Pison, Greet et al., (2004a:62010)**

Van Huffel, Sabine *see* **Kukush, A. G. et al., 2004d:62098**

Vannoni, Davide *see* **Piacenza, Massimiliano**

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Verma, Sanjay (*with* Singh, R. Karan) A modified generalized mixed regression estimator when disturbances are nonnormal. (English summary) **2004b:62071**

Vestrup, E. M. *see* **Bhattacharya, Debasis et al., 2004f:62062**

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Vingron, Martin *see* **von Heydebreck, Anja et al., (2004a:62009)**

Wang, De Hui *see* **Shi, Ning-Zhong, 2004d:62103**

Wang, Juan *see* **Qian, Wei Min**

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Berger, Kenneth I. *see* **Scott, Marc A. et al.**
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Bos, Charles S. *see* **Koopman, Siem Jan**
Bosch, Ronald J. *see* **Gilbert, Peter B. et al.**
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Casella, George *see* **Ma, Chang-Xing et al.**, 2004j:92047
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Cramer, J. S. ★ Logit models from economics and other fields. 2004j:62003
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Dastoor, Naorayex K. The equality of comparable extended families of classical-type and Hausman-type statistics. (English summary) 2004i:62049
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De Graaf, Nan Dirk *see* **Sobel, Michael E. et al.**
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Deo, Balbinder *see* **Singh, Sarjinder**, 2004h:62008
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Dhorne, Thierry *see* **Marin, Jean-Michel**, 2004b:62166
Diebolt, Jean *see* **Chauveau, Didier**, 2004i:60102
Dignam, James J. *see* **Bryant, John Lowrie**
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Dom´ inguez Toribio, Manuel *see* **Aguirre-Torres, Victor**, 2004m:62067
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Dunn, Olive Jean *see* **Mickey, Ruth M. et al., 2004k:62004**
Dunsmuir, William T. M. *see* **Davis, Richard Alan et al., 2004j:62171**
Eberly, Lynn E. (*with* Louis, Thomas A.) Bayes/frequentist compromise decision rules for Gaussian sampling. (English summary) **2004k:62080**
van Eeden, Constance (*with* Zidek, James V.) Combining sample information in estimating ordered normal means. (English summary) **2004d:62118**
— (*with* Zidek, James V.) Combining the data from two normal populations to estimate the mean of one when their means difference is bounded. (English summary) **2004j:62062**
— *see also* **Wang, Xiaogang (Steven) et al., 2004k:62078**
Efe, Murat *see* **Ozbek, Levent**
Egger, Peter *see* **Baltagi, Badi H. et al., 2004g:91099**
Ekni, M. *see* **Altunkaynak, B., 2004g:62120**
Engel, Bas (*with* van Reenen, Kees; Buist, Willem) Analysis of correlated series of repeated measurements: application to challenge data. (English summary)
Engels, Eric *see* **Pfeiffer, Ruth M. et al.**
Engl, Heinz W. (*with* Kügler, Philipp) Parameter identification in industrial problems via iterative regularization methods.
Escobar, Luis A. *see* **Nair, Vijay N. et al.**
Everts-van der Wind, A. *see* **Klinkenberg, D. et al., 2004j:92095**
Faddy, Malcolm J. *see* **Jones, Michael C., 2004a:62035**
Faizi, M. *see* **Allal, J. et al., 2004m:62179**
Famoye, Felix (*with* Kaufman, Edwin H., Jr.) Generalized negative binomial regression model. (English summary)
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Fan, Jianqing (*with* Gu, Juan) Semiparametric estimation of value at risk. (English summary)
Fang, Xiangzhong (*with* Watson, Ray; Yan, Wang; Yip, Paul S. F.) A procedure for complete fault detection with a removal process. (English summary)
Fegyverneki, S. Robust estimators and probability integral transformations. (English summary) **2004k:62092**
Fei, He Liang *see* **Ni, Zhong Xin, 2004i:62172**
Fellag, Hocine *see* **Nouali, Karima, 2004d:62109**
Feng, Rui *see* **Zhang, He Ping[1] et al., 2004k:62253**
Feng, Yuanhua Simultaneously modeling conditional heteroskedasticity and scale change. (English summary) **2004m:62190**
Ferrante, L. (*with* Bompadre, S.; Leone, L.) A stochastic compartmental model with long lasting infusion. (English and German summaries) **2004b:60146**
Fiocco, Marta (*with* van Zwet, Willem R.) Statistics for the contact process. (*see* **2004a:62014**)
Fiorentini, Gabriele (*with* Sentana, Enrique; Calzolari, Giorgio) Maximum likelihood estimation and inference in multivariate conditionally heteroscedastic dynamic regression models with Student t innovations. (English summary) **2004h:62155**
Fitzmaurice, Garrett M. *see* **O'Brien, Liam M.**
Flournoy, Nancy *see* **Sun, Jianguo et al., 2004m:62222**
Fox, Colin (*with* Nicholls, Geoff) Statistical estimation of the parameters of a PDE. (English summary) **2004k:92028**
Francq, Christian (*with* Gautier, Antony) Estimation de modèles ARMA à changements de régime récurrents. (English and French summaries) [Estimating ARMA models with recurrent regime changes]
Frangakis, Constantine E. (*with* Brookmeyer, Ronald S.; Varadhan, Ravi; Safaeian, Mahboobeh; Vlahov, David; Strathdee, Steffanie A.) Methodology for evaluating a partially controlled longitudinal treatment using principal stratification, with application to a needle exchange program. (English summary)
Frazis, Harley (*with* Loewenstein, Mark A.) Estimating linear regressions with mismeasured, possibly endogenous, binary explanatory variables. (English summary) **2004g:62122**
Frigessi di Rattalma, Arnoldo (*with* Haug, Ola; Rue, Håvard) A dynamic mixture model for unsupervised tail estimation without threshold selection. (English summary)
Frigyesi, Attila ★ Topics in multifractal measures, nonparametrics and biostatistics. **2004m:62004**
Fukumizu, Kenji Likelihood ratio of unidentifiable models and multilayer neural networks. (English summary) **2004j:62047**
Fuller, Wayne A. Estimation for multiple phase samples. (*see* **2004a:62008**)
— *see also* **Wang, Junyuan, 2004h:62128**
Gadbury, Gary L. (*with* Page, Grier P.; Heo, Moonseong; Mountz, John D.; Allison, David Bradley) Randomization tests for small samples: an application for genetic expression data. (English summary)
Gallès, Clémentine *see* **Jondeau, Eric et al.**
Gannoun, Ali (*with* Saracco, Jérôme) Two cross validation criteria for SIR_α and PSIR_α methods in view of prediction. (English summary)
Gatsonis, C. *see* **Dukic, V.**
Gaudoin, Olivier *see* **Doyen, Laurent, (2004i:62010)**
Gaura, Paweł Goodness-of-fit tests in the context of estimation of brain evoked response parameter. (English summary)
Gautier, Antony *see* **Francq, Christian**
Genç, Ali İ. *see* **Arslan, Olcay, 2004d:62119**
Geng, Zhi (*with* He, Yang-Bo; Wang, Xue-Li[2]; Zhao, Qiang[1]) Bayesian method for learning graphical models with incompletely categorical data. (English summary)
George, A. W. (*with* Thompson, Elizabeth A.) Discovering disease genes: multipoint linkage analysis via a new Markov chain Monte Carlo approach. (English summary)
Ghitany, M. E. (*with* Al-Mutairi, D. K.) A generalized geometric distribution and its application. (English summary) **2004d:62046**
Ghosh, Debashis (*with* Lin, Danyu) Semiparametric analysis of recurrent events data in the presence of dependent censoring. (English and French summaries)
Ghosh, Himadri Optimal design for point and interval estimation of ratio of variance components in one way ANOVA model. (English and Hindi summaries) **2004m:62164**
Ghosh, Malay (*with* Kim, Yeong-Hwa) Interval estimation of the common mean of several normal populations: a Bayes-frequentist synthesis. (English summary) (*see* **2004j:62008**)
— (*with* Maiti, Tapabrata) Small-area estimation based on natural exponential family quadratic variance function models and survey weights. (English summary) **2004m:62032**
Gijbels, Irène *see* **Delaigle, A.**
Gilbert, Peter B. (*with* Bosch, Ronald J.; Hudgens, Michael G.) Sensitivity analysis for the assessment of causal vaccine effects on viral load in HIV vaccine trials. (English and French summaries)
Giovannelli, Jean-François (*with* Idier, Jérôme; Boubertakh, Rédha; Herment, Alain) Unsupervised frequency tracking beyond the Nyquist frequency using Markov chains. (English summary) **2004c:94045**
Girard, Stéphane A Hill type estimator of the Weibull tail-coefficient. (English summary) **2004m:62118**
Gola, R. C. (*with* Rai, Anil) Two stage successive sampling with partial replacements of units. (English and Hindi summaries)
Golan, Amos (*with* Moretti, Enrico; Perloff, Jeffrey M.) A small-sample estimator for the sample-selection model. (English summary)
Good, Phillip I. (*with* Hardin, James W.) ★ Common errors in statistics (and how to avoid them). **2004i:62001**
Gorfine, Malka (*with* Hsu, Li; Prentice, Ross L.) Estimation of dependence between paired correlated failure times in the presence of covariate measurement error. (English summary) **2004f:62130**
Gorlova, Olga Y. *see* **Kimmel, Marek**
Goto, Masashi *see* **Sugimoto, Tomoyuki, 2004k:62242** *and* **Daimon, Takashi**
Göttlein, Axel *see* **Pruscha, Helmut**
Graat, E. A. M. *see* **Klinkenberg, D. et al., 2004j:92095**
Groß, Jürgen ★ Linear regression. **2004m:62006**
Gu, Juan *see* **Fan, Jianqing**
Gulati, Sneh (*with* Padgett, William J.) ★ Parametric and nonparametric inference from record-breaking data. **2004a:62003**
Gupta, Suneel *see* **Li, Lang et al.**
Gusev, Yu. V. *see* **Barlow, Martin et al.**
Haddock, Joanna *see* **Bewley, Ronald**
von Haefen, Roger H. (*with* Phaneuf, Daniel J.; Parsons, George R.) Estimation and welfare analysis with large demand systems. (English summary)
Haesbroeck, Gentiane *see* **Croux, Christophe**
Hakoyama, Hiroshi *see* **Satake, Akiko et al.**
Hall, Peter G. (*with* Tajvidi, Nader) Prediction regions for bivariate extreme events. (English summary)
Hamada, Michael S. *see* **Nair, Vijay N. et al.**
Han, Karen E. (*with* Catalano, Paul J.; Senchaudhuri, Pralay; Mehta, Cyrus R.) Exact analysis of dose response for multiple correlated binary outcomes. (English and French summaries)
Hansen, Karsten T. (*with* Heckman, James J.; Mullen, Kathleen J.) The effect of schooling and ability on achievement test scores. (English summary)
Hardin, James W. *see* **Good, Phillip I., 2004i:62001**
Härdle, Wolfgang *see* **Liang, Hua, 2004k:62108**
Haug, Ola *see* **Frigessi di Rattalma, Arnoldo et al.**
Haupt, Harry (*with* Oberhofer, Walter; Reichsthaler, Thomas) A varying-coefficient approach to estimation and extrapolation of household size. (English summary)
Hazan, Alon (*with* Landsman, Zinoviy M.; Makov, Udi E.) Robustness via a mixture of exponential power distributions. (English summary) **2004b:62031**
He, Can Zhi *see* **Tian, Maozai, 2004j:62030** *and* **Liu, Xian Xia**
He, Chong Z. Bayesian modeling of age-specific survival in bird nesting studies under irregular visits. (English and French summaries) **2004i:62176**
He, Wenqing (*with* Lawless, Jerald F.) Flexible maximum likelihood methods for bivariate proportional hazards models. (English and French summaries)
He, Yang-Bo *see* **Geng, Zhi et al.**
Heath, Anthony *see* **Sobel, Michael E. et al.**
Heckman, James J. *see* **Hansen, Karsten T. et al.**
Hegland, Markus Additive sparse grid fitting. (English summary) (*see* **2004j:65005**)
Heien, Herbert C. (*with* Baumann, William A.; Rahman, Mezbahur) An application of logistic regression in estimation and prediction. (English summary)
Heo, Moonseong *see* **Gadbury, Gary L. et al.**
Herman, Gabor T. *see* **Liao, Hstau Y.**
Herment, Alain *see* **Giovannelli, Jean-François et al., 2004c:94045**
Herring, Amy H. (*with* Ibrahim, Joseph G.; Lipsitz, Stuart R.) Non-ignorable missing covariate data in survival analysis: a case-study of an International Breast Cancer Study Group trial. (English summary)
Hess, Klaus Th. (*with* Schmidt, Klaus D.) A comparison of models for the chain-ladder method. (English summary) **2004a:60037**
Higgins, Richard S. (*with* Johnson, Paul A.) The mean effect of structural change on the dependent variable is accurately measured by the intercept change alone. (English summary) **2004b:62228**
Higuchi, Tomoyuki *see* **Kitagawa, Genshiro et al.. (2004a:62009)**
Hiramatsu, Kazuhiko *see* **Okamura, Hiroshi et al.**
Hirano, Keisuke (*with* Porter, Jack R.) Asymptotic efficiency in parametric structural models with parameter-dependent support. (English summary) **2004j:62219**
Hirose, Hideo[2] *see* **Komori, Yoshio**
Hocking, Ronald R. ★ Methods and applications of linear models. **2004b:62002**
Højsgaard, Søren Statistical inference in context specific interaction models for contingency tables. (English summary) **2004m:62141**
Hong, Han (*with* Tamer, Elie) Endogenous binary choice model with median restrictions. (English summary) **2004g:91122**
— (*with* Tamer, Elie) A simple estimator for nonlinear error in variable models. (English

summary) **2004g:62118**
Hou, Xiaoling *see* **Prékopa, András, 2004i:90096**
Hsu, Li *see* **Gorfine, Malka et al., 2004f:62130**
Hsueh, Huey-Miin *see* **Tsai, Chen-An et al.**
Hsu Schmitz, Shu-Fang *see* **Del Valle, Sara et al.**
Hu, Hong Chang (*with* Sun, Hai Yan) Stable convergence in distribution for wavelet estimation in a semiparametric regression model—the martingale-difference error sequence case. (Chinese. English and Chinese summaries) **2004j:62070**
Huang, Ke Ming[1] *see* **Liu, Wen Li, 2004d:62245**
Huang, Steve Y. H. *see* **Hwang, Wen-Han**
Hubbell, Stephen P. *see* **Satake, Akiko et al.**
Hudgens, Michael G. *see* **Gilbert, Peter B. et al.**
Huerta, Gabriel (*with* Jiang, Wenxin; Tanner, Martin A.) Time series modeling via hierarchical mixtures. (English summary) **2004j:62181**
Hunt, Daniel *see* **Rai, Shesh N. et al., (2004k:62018)** *and* **Li, Chin-Shang**
Hurvich, Clifford M. *see* **Chen, Willa W., 2004g:62052**
Hüsing, Johannes (*with* Dresen, Irina Gana; Jöckel, Karl-Heinz) Quest for a sensible null distribution in longitudinal microarray experiments. (English summary)
Huzak, Miljenko *see* **Bokor, Rózsa Horváth et al., (2004c:00014)**
Hwang, Wen-Han (*with* Huang, Steve Y. H.) Estimation in capture-recapture models when covariates are subject to measurement errors. (English and French summaries)
Ibrahim, Joseph G. *see* **Herring, Amy H. et al.**
Idier, Jérôme *see* **Giovannelli, Jean-François et al., 2004c:94045**
Imoto, Seiya *see* **Konishi, Sadanori et al., 2004m:62018**
Ingman, Dov *see* **Zeifman, Michael I.**
Ip, Wai Cheung (*with* Wong, Heung; Chen, Qinghu) Identification of ballistic texture using wavelet decomposition. (English summary)
Irizarry, Rafael A. *see* **Scharfstein, Daniel O.**
Isogai, Eiichi (*with* Ali, Muktar; Uno, Chikara) Sequential estimation of the powers of normal and exponential scale parameters. (English summary) **2004f:62158**
— *see also* **Ali, Muktar, 2004d:62278**
Istas, Jacques *see* **Benassi, Albert et al., 2004f:60078**
Iwasa, Yoh *see* **Satake, Akiko et al.**
Iyer, Srikanth K. *see* **Nandi, Swagata[2] et al., 2004f:62171**
Jackson, Dan *see* **Copas, John, 2004m:62234**
Jacobsen, Martin Optimality and small Δ-optimality of martingale estimating functions. (English summary) **2004c:60226**
Jeng, Jin-Tsong (*with* Chuang, Chen-Chia) Selection of initial structures with support vector regression for fuzzy neural networks. (English summary)
Jensen, Uwe[2] Which feeling is stronger: jealousy or laziness? (English summary) (*see* **2004k:62015**)
Jeske, Roland (*with* Song, Seuck Heun) Relative efficiency of OLSE and COTE for seasonal autoregressive disturbances. **2004d:62304**
Jiang, Wenjiang (*with* Pedersen, Jan) Parameter estimation for a discretely observed stochastic volatility model with jumps in the volatility. (English summary) **2004d:62366**
Jiang, Wenxin *see* **Huerta, Gabriel et al., 2004j:62181**
Jiang, Yi[3] (*with* Rouder, Jeffrey N.; Speckman, Paul L.) A note on the sampling properties of the Vincentizing (quantile averaging) procedure. (English summary)
Jöckel, Karl-Heinz *see* **Hüsing, Johannes et al.**
Johnson, Paul A. *see* **Higgins, Richard S., 2004b:62228**
Jondeau, Eric (*with* Le Bihan, Hervé; Gallès, Clémentine) Assessing generalized method-of-moments estimates of the federal reserve reaction function. (English summary)
Jones, Beatrix Balancing population size and genetic information in parentage analysis studies. (English and French summaries) **2004g:62187**
Jones, John Bailey *see* **Arcidiacono, Peter, 2004d:62279**
Jones, Michael C. (*with* Faddy, Malcolm J.) A skew extension of the t-distribution, with applications. (English summary) **2004a:62035**
de Jong, M. C. M. *see* **Klinkenberg, D. et al., 2004j:92095**
Joseph, Lawrence *see* **Zhou, Xiaojie et al., 2004i:62143**
Jowaheer, Vandna *see* **Sutradhar, Brajendra C.**
Jucá, Iana B. *see* **Powers, Michael R. et al., 2004b:91117**
Kaaouachi, A. *see* **Allal, J. et al., 2004k:62190** *and* **2004m:62179**
Kaçiranlar, Selahattin Liu estimator in the general linear regression model. (English summary) **2004k:62170**
Kaio, Naoto *see* **Dohi, Tadashi et al.**
Kakizawa, Yoshihide Edgeworth approximation in the AR(1) process with some possibly nonzero initial value. (English summary) **2004a:62159**
Kalamatianou, Aglaia G. (*with* McClean, Sally) The perpetual student: modeling duration of undergraduate studies based on lifetime-type educational data. (English summary)
Kandala, V. M. *see* **Prajneshu**
Kang, Sang Gil *see* **Cho, Jang Sik et al.**
Karagiannis, Giannis *see* **Kumbhakar, Subal C., 2004m:91083**
Karim, Md. Rezaul (*with* Suzuki, Kazuyuki) Analysis of field failure warranty data with sales lag. (English summary)
Karlaftis, Matthew G. *see* **Washington, Simon P. et al., 2004f:62004**
Karlis, Dimitris ML estimation for multivariate shock models via an EM algorithm. (English summary)
Kaufman, Edwin H., Jr. *see* **Famoye, Felix**
Kaymarm, F. *see* **Khoshnevisan, M. et al., 2004g:62188**
Kelly, Colleen (*with* Price, Trevor D.) Comparative methods based on species mean values. (English summary)
Kel′manov, A. V. (*with* Okol′nishnikova, L. V.) A posteriori joint detection and distinguishing of subsequences in a quasiperiodic sequence. (Russian. Russian summary) **2004c:94077**
Khan, Shakeeb *see* **Chen, Songnian, 2004h:62058**
Khare, B. B. (*with* Srivastava, S. Rani) Study of two phase sampling ratio type estimators for population mean in presence of nonresponse under superpopulation model approach. (English summary) **2004d:62031**
Khas′minskiĭ, Rafail Zalmanovich On parameter estimation for linear and nonlinear stochastic systems. (English summary) (*see* **2004j:60007**)
Khoshnevisan, M. (*with* Kaymarm, F.; Singh, Housila Prasad; Singh, Rajesh[1]; Smarandache, Florentin) Econometric analysis on efficiency of estimators. (English summary) **2004g:62188**
Khuri, André I. *see* **Ma, Chang-Xing et al., 2004j:92047**
Kiesel, Rüdiger *see* **Bingham, N. H. et al., 2004j:91117**
Kim, Yeong-Hwa *see* **Ghosh, Malay, (2004j:62008)**
Kimmel, Marek (*with* Gorlova, Olga Y.) Stochastic models of progression of cancer and their use in controlling cancer-related mortality. (English summary)
— *see also* **Polański, Andrzej**
Kimura, Miyoshi *see* **Ando, Masakazu, 2004g:62065**
King, Ruth (*with* Brooks, Stephen P.) Closed-form likelihoods for Arnason-Schwarz models. (English summary) **2004j:62218**
Kitagawa, Genshiro (*with* Higuchi, Tomoyuki; Sato, Seisho) Computational methods for time series analysis. (English summary) (*see* **2004a:62009**)
Kitakado, Toshihide *see* **Okamura, Hiroshi et al.**
Klein, André (*with* Spreij, Peter) Some results on Vandermonde matrices with an application to time series analysis. (English summary) **2004e:62157**
Klinkenberg, D. (*with* Everts-van der Wind, A.; Graat, E. A. M.; de Jong, M. C. M.) Quantification of the effect of control strategies on classical swine fever epidemics. (English summary) **2004j:92095**
Ko, Jeong Hwan *see* **Cho, Jang Sik et al.**
Kohn, Robert Jacob *see* **Wong, Frederick et al., 2004i:62132**
Komori, Yoshio (*with* Hirose, Hideo[2]) Easy estimation by a new parameterization for the three-parameter lognormal distribution. (English summary)
Konishi, Sadanori (*with* Ando, Tomohiro; Imoto, Seiya) Bayesian information criteria and smoothing parameter selection in radial basis function networks. (English summary) **2004m:62018**
Kooperberg, Charles (*with* Stone, Charles J.) Confidence intervals for logspline density estimation. (English summary) (*see* **2004d:62006**)
Koopman, Siem Jan (*with* Bos, Charles S.) State space models with a common stochastic variance. (English summary)
Kotz, Samuel (*with* Lumelskii, Yan; Pensky, Marianna) ★ The stress-strength model and its generalizations. **2004c:62002**
Kribs-Zaleta, Christopher *see* **Del Valle, Sara et al.**
Kubáček, Lubomír (*with* Kubáčková, Ludmila) Statistical problems of a determination of isobestic points. (English summary) **2004e:62125**
— (*with* Tesařiková, Eva) Weakly nonlinear constraints in regression models. (English summary) **2004b:62156**
— Linearized regression model with constraints of type II. (English summary) **2004b:62161**
Kubáčková, Ludmila *see* **Kubáček, Lubomír, 2004e:62125**
Kügler, Philipp *see* **Engl, Heinz W.**
Kuhlisch, Wiltrud Estimation of a threshold-value in the context of air pollution and health. (English summary)
Kukla, Grzegorz *see* **Burnecki, Krzysztof, 2004k:62244**
Kukush, A. G. (*with* Van Huffel, Sabine) Consistency of elementwise-weighted total least squares estimator in a multivariate errors-in-variables model $AX = B$. (English summary) **2004m:62129**
Kumbhakar, Subal C. (*with* Karagiannis, Giannis) On the equivalence of two normalizations in estimating shadow cost functions. (English summary) **2004m:91083**
Kundu, Debasis *see* **Nandi, Swagata[2] et al., 2004f:62171**
Lahiri, Soumendra N. *see* **Lee, Yoon Dong, 2004d:62201**
Lai, Kunjung *see* **Chen, Huann-Sheng et al., 2004k:62229**
Lai, Manpo *see* **Barlow, Martin et al.**
LaMotte, Lynn R. *see* **Volaufová, Júlia et al.**
Landsman, Zinoviy M. *see* **Hazan, Alon et al., 2004b:62031**
Lange, N. *see* **Wager, C. G. et al.**
Langer, Frank *see* **Munzel, Ullrich**
Lawless, Jerald F. *see* **He, Wenqing**
Lazrieva, N. (*with* Torondzhadze, T. A.) General M-estimators in the presence of nuisance parameters. Skew projection technique. (English summary) **2004g:62055**
Le, Chap T. ★ Introductory biostatistics. **2004a:92001**
Le Bihan, Hervé *see* **Jondeau, Eric et al.**
Lee, Deukhwan *see* **Lee, Seung-Chun, 2004g:62059**
Lee, Kyung-Hoon *see* **Li, Lang et al.**
Lee, Seung-Chun (*with* Lee, Deukhwan) Bayesian analysis of multivariate threshold animal models using Gibbs sampling. (English summary) **2004g:62059**
Lee, Sik-Yum (*with* Song, Xin-Yuan) Maximum likelihood estimation and model comparison of nonlinear structural equation models with continuous and polytomous variables. (English summary)
Lee, Yoon Dong (*with* Lahiri, Soumendra N.) Least squares variogram fitting by spatial subsampling. (English summary) **2004d:62201**
Leeb, Hannes (*with* Pötscher, Benedikt M.) The finite-sample distribution of post-model-selection estimators and uniform versus nonuniform approximations. (English summary) **2004a:62045**
Leone, L. *see* **Ferrante, L. et al., 2004b:60146**
Letac, Gérard The normal quasi Wishart distribution. **2004b:62032**
Leung, Denis H. Y. *see* **Chen, Song Xi et al., 2004k:62104**
Levit, Boris *see* **Belitser, Eduard, 2004k:62099**
Lewontin, Richard C. *see* **Simpson, George Gaylord et al., 2004m:92002**
Li, Bing[1] *see* **Cao, Yinghong**
Li, Chin-Shang (*with* Hunt, Daniel) Regression splines for threshold selection with application to a random-effects logistic dose-response model. (English summary)
Li, Kim-Hung (*with* Chan, Nai N.) L_p-optimality for regression designs under correlations. (English summary) **2004j:62150**
Li, Lang (*with* Lin, Xihong; Brown, Morton B.; Gupta, Suneel; Lee, Kyung-Hoon) A population pharmacokinetic model with time-dependent covariates measured with errors. (English and French summaries)
Li, Pai-Ling *see* **Wu, Jong-Wuu, 2004a:62180**
Li, Shu-you (*with* Zhang, Bao Xue) Maximum likelihood estimation of ratios of means and standard deviations from normal populations under semi-order restriction. (English

and Chinese summaries) **2004m:62132**
Li, Zhi-guo *see* **An, Hong-zhi**, **2004h:62153**
Liang, Hua (*with* Härdle, Wolfgang) Partial linear models with heteroscedastic variances. (English summary) **2004k:62108**
Liao, Hstau Y. (*with* Herman, Gabor T.) Automated estimation of the parameters of Gibbs priors to be used in binary tomography.
Liao, Yuan Su A maximum likelihood method combined with empirical Bayesian approach. (Chinese. English and Chinese summaries)
Limić, Nedžad *see* **Bokor, Rózsa Horváth et al.**, (**2004c:00014**)
Lin, Danyu *see* **Ghosh, Debashis**
Lin, Juan K. Targeted clustering of nonlinearly transformed Gaussians. (*see* **2004d:62006**)
Lin, Lu[2] Maximum information and optimum estimating function. (English summary) **2004h:62011**
Lin, Xihong *see* **Li, Lang et al.**
Lin, Zhiping *see* **Ober, Raimund J. et al.**, **2004h:94019**
Lipsitz, Stuart R. *see* **Herring, Amy H. et al.**
Liseo, Brunero Bayesian and conditional frequentist analyses of the Fieller's problem. A critical review. (English summary) **2004d:62115**
Littell, Ramon C. *see* **Ma, Chang-Xing et al.**, **2004j:92047**
Liu, Aiyi (*with* Schisterman, Enrique F.) Comparison of diagnostic accuracy of biomarkers with pooled assessments. (English summary) **2004f:62136**
Liu, Wen Li (*with* Huang, Ke Ming[1]) The superiority of a kind of nonlinear ridge estimator. (Chinese. English and Chinese summaries) **2004d:62245**
Liu, Xian Xia (*with* He, Can Zhi) The BC estimation of parameter in multivariate linear regression models. (Chinese. English and Chinese summaries)
Loewenstein, Mark A. *see* **Frazis, Harley**, **2004g:62122**
Loh, H. T. *see* **Cui, Lirong et al.**, **2004j:90031**
Louis, Thomas A. *see* **Eberly, Lynn E.**, **2004k:62080**
Louzada Neto, Francisco *see* **Mazucheli, Josmar et al.**
Lü, Chun Lian *see* **Chen, Shun Hua et al.**, **2004g:62149**
Lu, Jye-Chyi (*with* Peng, Liang) Likelihood based confidence intervals for the tail index. (English summary) **2004g:62103**
Lumelskii, Yan *see* **Kotz, Samuel et al.**, **2004c:62002**
Lyssiotou, Panayiota (*with* Pashardes, Panos) Comparing the true cost of living indices of demographically different households. (English summary) **2004j:91205**
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Maiboroda, Rostislav E. A least squares estimator for the parameter of concentrations of varying mixtures. I. Consistency. (Ukrainian. Ukrainian summary) **2004e:62077**
Maiti, Tapabrata *see* **Ghosh, Malay**, **2004m:62032**
Majumdar, Mukul *see* **Athreya, Krishna B.**, **2004i:60101**
Makov, Udi E. *see* **Hazan, Alon et al.**, **2004b:62031**
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Marriott, Paul On the geometry of measurement error models. (English summary) **2004h:62122**
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Martinussen, Torben *see* **Pipper, Christian Bressen**, **2004g:62179**; **2004k:62237** *and* **Scheike, Thomas H.**, **2004k:62240**
Mateev, Plamen S. (*with* Stoimenova, Eugenia) Generalized scaling factor for estimating the activity concentrations of difficult-to-measure nuclides. (English summary)
Matsuyama, Yasuo The α-EM algorithm: surrogate likelihood maximization using α-logarithmic information measures. (English summary) **2004b:94034**
Mazucheli, Josmar (*with* Louzada Neto, Francisco; Achcar, Jorge Alberto) Lifetime models with nonconstant shape parameters. (English summary)
Mbulaiteye, Sam *see* **Pfeiffer, Ruth M. et al.**
McAleer, Michael *see* **Verhoeven, Peter**
McClean, Sally *see* **Kalamatianou, Aglaia G.**
McNeney, Brad *see* **Breslow, Norman E. et al.**, **2004m:62103**
Mehta, Cyrus R. *see* **Han, Karen E. et al.**
Mei, Bao Lin *see* **Chen, Shun Hua et al.**, **2004g:62149**
Melas, V. B. (*with* Pepelyshev, A. N.; Cheng, Russell C. H.) Designs for estimating an extremal point of quadratic regression models in a hyperball. (English summary) **2004g:62135**
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Melhaoui, S. *see* **Allal, J. et al.**, **2004k:62190**
Mellal, Nacéra *see* **Colin, Bernard**
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Metcalfe, Andrew V. *see* **Whyte, Jason M. et al.**
Mi, Jie *see* **Balakrishnan, Narayanaswamy**, **2004d:62331**
Mickey, Ruth M. (*with* Dunn, Olive Jean; Clark, Virginia A.) ★ Applied statistics. **2004k:62004**
Miller, Christopher M. *see* **Batsell, Richard R. et al.**, **2004i:91046**
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Molenberghs, Geert *see* **Shkedy, Ziv et al.**
Møller, Svend Kreiner *see* **Christensen, Karl Bang et al.**
Montepiedra, Grace (*with* Yeh, Arthur B.) Two-stage designs for identification and estimation of polynomial models. (English summary)
Morales Evangelista, Arlene *see* **Del Valle, Sara et al.**
Moreira Freitas, Ana Cristina *see* **Brito, Margarida**, **2004k:62100**
Moretti, Enrico *see* **Golan, Amos et al.**
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Mori, Mitsuyo *see* **Okamura, Hiroshi et al.**
Morillo, Isabel (*with* Bermúdez, Lluís) Bonus-malus system using an exponential loss function with an inverse Gaussian distribution. (English summary) **2004i:62179**
Mouchart, Michel *see* **Oulhaj, Abderrahim**, **2004i:62013**
Mountz, John D. *see* **Gadbury, Gary L. et al.**
Mukhopadhyay, Parimal Some lower bounds on variances of estimating functions. (English summary) **2004b:62038**
Mullen, Kathleen J. *see* **Hansen, Karsten T. et al.**
Müller, Peter[2] *see* **Stroud, Jonathan R. et al.**
Müller, Ursula U. (*with* Schick, Anton; Wefelmeyer, Wolfgang) Plug-in estimators in semiparametric stochastic process models. (English summary) **2004m:62087**
Munzel, Ullrich (*with* Langer, Frank) A global view on parametric and nonparametric approaches to the analysis of ordered categorical data. (English summary)
Nair, Vijay N. (*with* Escobar, Luis A.; Hamada, Michael S.) Design and analysis of experiments for reliability assessment and improvement. (English summary)
Nam, Jun-mo Homogeneity score test for the intraclass version of the kappa statistics and sample-size determination in multiple or stratified studies. (English and French summaries)
Nandi, Swagata[2] (*with* Iyer, Srikanth K.; Kundu, Debasis) Estimation of frequencies in presence of heavy tail errors. (English summary) **2004f:62171**
Ng, Kai Wang *see* **Tan, Ming et al.**, **2004e:62022**
Ni, Zhong Xin (*with* Fei, He Liang) Statistical analysis of the zero-failure data for the Weibull distribution. (Chinese. English and Chinese summaries) **2004i:62172**
Nicholls, Geoff *see* **Fox, Colin**, **2004k:92028**
Nicoleris, Theodoros (*with* Walker, Stephen G.) On Hellinger consistent density estimation. (English summary) **2004k:62077**
Nielsen, Bent (*with* Shephard, Neil) Likelihood analysis of a first-order autoregressive model with exponential innovations. (English summary) **2004e:62162**
Nitcheva, Daniela K. *see* **Al-Saidy, Obaid M. et al.**
Norell, Lennart ANOVA estimators under imbalance in the one-way random model. (English summary) **2004a:62135**
— On the optimum number of levels in the one-way model with random effects. (English summary) **2004j:62152**
Norman, Robert G. *see* **Scott, Marc A. et al.**
Norris, James L. *see* **Pledger, Shirley et al.**
Nouali, Karima (*with* Fellag, Hocine) Approximate bias for first-order autoregressive model with uniform innovations. Small sample case. (English summary) **2004d:62109**
Oakley, Jeremy Estimating percentiles of uncertain computer code outputs. (English summary)
Ober, Raimund J. (*with* Zou, Qiyue; Lin, Zhiping) Calculation of the Fisher information matrix for multidimensional data sets. (English summary) **2004h:94019**
Oberhofer, Walter *see* **Haupt, Harry et al.**
O'Brien, Liam M. (*with* Fitzmaurice, Garrett M.) Analysis of longitudinal multiple-source binary data using generalized estimating equations. (English summary)
Okamura, Hiroshi (*with* Kitakado, Toshihide; Hiramatsu, Kazuhiko; Mori, Mitsuyo) Abundance estimation of diving animals by the double-platform line transect method. (English and French summaries)
Okol'nishnikova, L. V. *see* **Kel'manov, A. V.**, **2004c:94077**
Oliva, Rogelio Model calibration as a testing strategy for system dynamics models. (English summary)
Olmo-Jiménez, María José *see* **Rodríguez-Avi, José et al.**, **2004j:62027**
Osaki, Shunji *see* **Dohi, Tadashi et al.**
Oulhaj, Abderrahim (*with* Mouchart, Michel) Partial sufficiency with connection to the identification problem. (English summary) **2004i:62013**
Ozbek, Levent (*with* Efe, Murat) An adaptive extended Kalman filter with application to compartment models. (English summary)
Padgett, William J. *see* **Gulati, Sneh**, **2004a:62003**
Page, Grier P. *see* **Gadbury, Gary L. et al.**
Pajevic, Sinisa *see* **Malley, James D. et al.**, **2004d:62069**
Pal, Nabendu *see* **Arazyan, Alvard Y. et al.**, **2004c:62017**
Pardo, Leandro *see* **Menéndez, M. L. et al.**, **2004d:62070**
Pardo Llorente, Julio Ángel *see* **Menéndez, M. L. et al.**, **2004d:62070**
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Parsons, George R. *see* **von Haefen, Roger H. et al.**
Pascual, Francis G. The random fatigue-limit model in multi-factor experiments. (English summary)
Pashardes, Panos *see* **Lyssiotou, Panayiota**, **2004j:91205**
Pastorello, Sergio (*with* Patilea, Valentin; Renault, Eric) Iterative and recursive estimation in structural nonadaptive models. (English summary) **2004h:62067**
Pastor-Satorras, Romualdo (*with* Vespignani, Alessandro) Epidemics and immunization in scale-free networks. (English summary) (*see* **2004f:00010**)
Pati, A. *see* **Tripathy, P. K.**
Patilea, Valentin *see* **Pastorello, Sergio et al.**, **2004h:62067**
Paulauskas, Vygantas (*with* Rachev, Svetlozar T.) Maximum likelihood estimators in regression models with infinite variance innovations. (English summary) **2004c:62184**
Pearce, Charles E. M. *see* **Whyte, Jason M. et al.**

Pedersen, Jan *see* **Jiang, Wenjiang**, **2004d:62366**
Peng, Liang *see* **Lu, Jye-Chyi**, **2004g:62103**
Pensky, Marianna *see* **Kotz, Samuel et al.**, **2004c:62002**
Pepelyshev, A. N. *see* **Melas, V. B. et al.**, **2004g:62135**
Pérez-Ocón, Rafael (*with* Ruiz-Castro, Juan Eloy) A multiple-absorbent Markov process in survival studies: application to breast cancer. (English summary)
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Perlman, Michael D. (*with* Chaudhuri, Sanjay) The role of reversals in order-restricted inference. (English and French summaries)
Perloff, Jeffrey M. *see* **Golan, Amos et al.**
Perron, François (*with* Sinha, Bimal K.) Estimation of variance based on a ranked set sample. (English summary) **2004m:62037**
Petersen, Jørgen Holm *see* **Christensen, Karl Bang et al.**
Pewsey, Arthur Improved likelihood based inference for the general half-normal distribution. (English summary)
Pfaffermayr, Michael *see* **Baltagi, Badi H. et al.**, **2004g:91099**
Pfanzagl, J. On distinguished LAN-representations. (English summary) **2004d:62060**
Pfeiffer, Ruth M. (*with* Mbulaiteye, Sam; Engels, Eric) A model to estimate risk of infection with human herpesvirus 8 associated with transfusion from cross-sectional data. (English and French summaries)
Phaneuf, Daniel J. *see* **von Haefen, Roger H. et al.**
Phillips, Peter C. B. *see* **Sun, Yixiao**, **2004d:62320**
Piegorsch, Walter W. *see* **Al-Saidy, Obaid M. et al.**
Pipper, Christian Bressen (*with* Martinussen, Torben) A likelihood based estimating equation for the Clayton-Oakes model with marginal proportional hazards. (English summary) **2004g:62179**
— (*with* Martinussen, Torben) An estimating equation for parametric shared frailty models with marginal additive hazards. (English summary) **2004k:62237**
Pivato, Marcus (*with* Seco, Luis) Estimating the spectral measure of a multivariate stable distribution via spherical harmonic analysis. (English summary) **2004h:60020**
Pledger, Shirley (*with* Pollock, Kenneth H.; Norris, James L.) Open capture-recapture models with heterogeneity. I. Cormack-Jolly-Seber model. (English and French summaries)
Polański, Andrzej (*with* Kimmel, Marek) Population genetics models for the statistics of DNA samples under different demographic scenarios—maximum likelihood versus approximate methods. (English summary)
Politis, Dimitris N. *see* **Vrontos, I. D. et al.**
Polking, John C. *see* **Batsell, Richard R. et al.**, **2004i:91046**
Pollock, Kenneth H. *see* **Pledger, Shirley et al.**
Polson, Nicholas G. *see* **Stroud, Jonathan R. et al.**
Pommeret, Denys A construction of the UMVU estimator for simple quadratic natural exponential families. (English summary) **2004b:62144**
Popović, Biljana Č. *see* **Ristić, Miroslav M.**
Porter, Jack R. *see* **Hirano, Keisuke**, **2004j:62219**
Pötscher, Benedikt M. *see* **Leeb, Hannes**, **2004a:62045**
Powers, Michael R. (*with* Venezian, Emilio C.; Jucá, Jana B.) Of happy and hapless regulators: the asymptotics of ruin. (English summary) **2004b:91117**
Prajneshu (*with* Kandala, V. M.) Mixed-influence nonlinear growth model. (English and Hindi summaries)
Preisler, Haiganoush K. *see* **Brillinger, David R. et al.**, (**2004d:62008**)
Prékopa, András (*with* Hou, Xiaoling) A stochastic programming model to find optimal sample sizes to estimate unknown parameters in an LP. (English summary) **2004i:90096**
Prentice, Ross L. *see* **Gorfine, Malka et al.**, **2004f:62130**
Presnell, Brett (*with* Boos, Dennis D.) The IOS test for model misspecification. (English summary) **2004m:62019**
Price, Trevor D. *see* **Kelly, Colleen**
Prokop, Jennifer *see* **Braun, W. John et al.**
Pruscha, Helmut (*with* Göttlein, Axel) Forecasting of categorical time series using a regression model. (English summary)
Qin, Jing[1] *see* **Chen, Song Xi et al.**, **2004k:62104**
Rabe-Hesketh, Sophia *see* **Skrondal, Anders**, **2004m:62009**
Rachev, Svetlozar T. *see* **Paulauskas, Vygantas**, **2004c:62184**
Rahman, Mezbahur *see* **Heien, Herbert C. et al.**
Rai, Anil *see* **Gola, R. C.**
Rai, Shesh N. (*with* Sun, Jianguo; Hunt, Daniel) Analysis of occult tumour trial data with varying lethality. (English summary) (*see* **2004k:62018**)
Redmann, Stephen M., Jr. *see* **Volaufová, Júlia et al.**
Redner, Richard A. *see* **Malley, James D. et al.**, **2004d:62069**
van Reenen, Kees *see* **Engel, Bas et al.**
Reichsthaler, Thomas *see* **Haupt, Harry et al.**
Reinsel, Gregory C. (*with* Cheang, Wai-Kwong) Approximate ML and REML estimation for regression models with spatial or time series AR(1) noise. (English summary) **2004c:62129**
Renault, Eric *see* **Pastorello, Sergio et al.**, **2004h:62067**
Ridout, M. S. *see* **Morgan, Byron J. T. et al.**
Rilstone, Paul (*with* Ullah, Aman) The sampling bias of Heckman's sample bias estimator. (English summary) (*see* **2004k:62018**)
Rissanen, Jorma J. Complexity of simple nonlogarithmic loss functions. (English summary) **2004b:94036**
Ristić, Miroslav M. (*with* Popović, Biljana Č.) A bivariate uniform autoregressive process. (English summary)
Robert, Christian P. *see* **Cappé, Olivier et al.**, **2004f:60153**
Rockinger, Michael *see* **Abadir, Karim M.**, **2004g:62082**
Rodríguez-Avi, José (*with* Conde-Sánchez, Antonio; Sáez-Castillo, Antonio José; Olmo-Jiménez, María José) A triparametric discrete distribution with complex parameters. (English summary) **2004j:62027**
Roe, Anne *see* **Simpson, George Gaylord et al.**, **2004m:92002**
Rouder, Jeffrey N. *see* **Jiang, Yi**[3] **et al.**
Rousseeuw, Peter J. (*with* Christmann, Andreas) Robustness against separation and outliers in logistic regression. (English summary) **2004e:62068**
Rousson, Valentin *see* **Braun, W. John et al.**
Ruddock, L. W. *see* **Morgan, Byron J. T. et al.**
Rue, Håvard *see* **Frigessi di Rattalma, Arnoldo et al.**
Ruiz-Castro, Juan Eloy (*with* Pérez-Ocón, Rafael) A semi-Markov model in biomedical studies. (English summary)
— *see also* **Pérez-Ocón, Rafael**
Runde, Ralf *see* **Scheffner, Axel**, **2004d:62157**
Rydén, Tobias *see* **Cappé, Olivier et al.**, **2004f:60153**
Sáez-Castillo, Antonio José *see* **Rodríguez-Avi, José et al.**, **2004j:62027**
Safaeian, Mahboobeh *see* **Frangakis, Constantine E. et al.**
Safi, S. (*with* Zeroual, A.) Blind identification in noisy environment of nonminimum phase finite impulse response (FIR) system using higher order statistics. (English summary)
Saleh, A. K. Md. Ehsanes *see* **Billah, Md. Baki**, (**2004a:62006**)
Samawi, Hani M. (*with* Al-Saleh, Mohammad Fraiwan) On regression analysis using bivariate ranked set samples. (English and Italian summaries) **2004b:62145**
Samuel, Philip (*with* Thomas, P. Yageen) Estimation of the parameters of triangular distribution by order statistics. (English summary)
Sanjari Farsipour, N. Admissibility of the minimum risk scale equivariant estimator in the problem of Nile. (English summary) **2004f:62027**
Sankar, Shanmugam *see* **Vellaisamy, P. et al.**, **2004f:62198**
Saracco, Jérôme *see* **Gannoun, Ali**
Sarikavanij, Sukuman (*with* Tiensuwan, Montip) On two novel applications of ranked set sampling. (English summary)
Sartori, N. Modified profile likelihoods in models with stratum nuisance parameters. (English summary)
— (*with* Severini, Thomas A.) Conditional likelihood inference in generalized linear mixed models. (English summary)
Satake, Akiko (*with* Iwasa, Yoh; Hakoyama, Hiroshi; Hubbell, Stephen P.) Estimating local interaction from spatiotemporal forest data, and Monte Carlo bias correction. (English summary)
Sato, Seisho *see* **Kitagawa, Genshiro et al.**, (**2004a:62009**)
Schanz, T. *see* **Stoimenova, Eugenia et al.**
Scharfstein, Daniel O. (*with* Irizarry, Rafael A.) Generalized additive selection models for the analysis of studies with potentially nonignorable missing outcome data. (English and French summaries)
Scheffner, Axel (*with* Runde, Ralf) Estimation of unimodal densities based on the fQ-system. (English summary) **2004d:62157**
Scheike, Thomas H. (*with* Martinussen, Torben) On estimation and tests of time-varying effects in the proportional hazards model. (English summary) **2004k:62240**
— (*with* Martinussen, Torben) Maximum likelihood estimation for Cox's regression model under case-cohort sampling. (English summary)
Schick, Anton *see* **Müller, Ursula U. et al.**, **2004m:62087**
Schisterman, Enrique F. *see* **Liu, Aiyi**, **2004f:62136**
Schmidt, Klaus D. *see* **Hess, Klaus Th.**, **2004a:60037**
Schmidt, Rafael *see* **Bingham, N. H. et al.**, **2004j:91117**
Scholz, T. *see* **Tutz, G.**
Schott, James R. Inferences using a structured fourth-order moment matrix. (English summary) **2004c:62130**
Schreiber, Tomasz Large deviation principle for spatial density of local observables from Gibbs distributions. (English summary) **2004a:82096**
Schubert, Leo *see* **Bouza Herrera, Carlos N.**
Schweder, Tore Abundance estimation from multiple photo surveys: confidence distributions and reduced likelihoods for bowhead whales off Alaska. (English and French summaries)
Scott, Alastair (*with* Wild, Chris) Fitting logistic regression models in case-control studies with complex sampling. (*see* **2004a:62008**)
Scott, Marc A. (*with* Norman, Robert G.; Berger, Kenneth I.) Modelling growth and decline in lung function in Duchenne's muscular dystrophy with an augmented linear mixed effects model. (English summary)
Seco, Luis *see* **Pivato, Marcus**, **2004h:60020**
See, Stanley P. *see* **Yang, Zhenlin et al.**, **2004e:62185**
Sempi, Carlo Conditional expectations and idempotent copulæ. (English summary)
Sen, Pranab Kumar[1] Bioinformatics: statistical perspectives and controversies. (English summary)
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Senchaudhuri, Pralay *see* **Han, Karen E. et al.**
Sentana, Enrique *see* **Fiorentini, Gabriele et al.**, **2004h:62155**
Serfling, Robert *see* **Brazauskas, Vytaras**
Severini, Thomas A. *see* **Malley, James D. et al.**, **2004d:62069** *and* **Sartori, N.**
Seymour, Lynne Estimating the variance of the maximum pseudo-likelihood estimator. (English summary) (*see* **2004c:62007**)
Shand, Kevin J. *see* **Carriere, Jacques F.**
(Shapiro, Arnold F.) *see* **Carriere, Jacques F.**
Sheena, Yo On minimaxity of the normal precision matrix estimator of Krishnamoorthy and Gupta. (English summary) **2004h:62016**
Shen, Wei-Hsiung *see* **Arazyan, Alvard Y. et al.**, **2004c:62017**
Shephard, Neil *see* **Nielsen, Bent**, **2004e:62162**
Shi, Genming *see* **Chaganty, N. Rao**, **2004m:62154**
Shinozaki, Nobuo *see* **Chang, Yuan-Tsung**, **2004j:62061**
Shkedy, Ziv (*with* Aerts, Marc; Molenberghs, Geert; Beutels, Philippe; Van Damme, Pierre) Modelling forces of infection by using monotone local polynomials. (English summary)
Sickles, Robin C. *see* **Park, Byeong U. et al.**, **2004h:62161a** *and* **2004h:62161b**
Siegmund, David *see* **Storey, John D. et al.**, **2004k:62056**
Sieluzycki, Cezary On estimation of brain evoked responses in examinations with repeated-stimulus paradigm. (English summary)
da Silva e Souza, Geraldo The law of categorical judgment revisited. (English summary)
Simar, Léopold *see* **Park, Byeong U. et al.**, **2004h:62161a** *and* **2004h:62161b**
Simpson, George Gaylord (*with* Roe, Anne; Lewontin, Richard C.) ★ Quantitative zoology. **2004m:92002**

Simpson, William Albert *see* **Braun, W. John et al.**
Singh, Housila Prasad *see* **Khoshnevisan, M. et al., 2004g:62188**
Singh, Rajesh[1] *see* **Khoshnevisan, M. et al., 2004g:62188**
Singh, Randhir Application of remote sensing technology for crop yield estimation. (English summary)
Singh, Sarjinder (*with* Deo, Balbinder) Imputation by power transformation. (English summary) **2004h:62008**
— *see also* **Arnab, Raghunath**, (**2004k:62018**)
Sinha, Bimal K. *see* **Perron, François**, **2004m:62037**
Sinha, Sanjoy K. Robust analysis of generalized linear mixed models. (English summary)
Skjerpen, Terje *see* **Aasness, Jørgen et al.**
Skrondal, Anders (*with* Rabe-Hesketh, Sophia) ★ Generalized latent variable modeling. **2004m:62009**
Small, Christopher G. (*with* Wang, Jin Fang) ★ Numerical methods for nonlinear estimating equations. **2004k:62012**
Smarandache, Florentin *see* **Khoshnevisan, M. et al., 2004g:62188**
Snijders, Tom A. B. *see* **van Duijn, Marijtje A. J. et al.**
Sobel, Michael E. (*with* De Graaf, Nan Dirk; Heath, Anthony; Zou, Ying[2]) Men matter more: the social class of identity of married British women, 1985–1991. (English summary)
Song, Bao Jun *see* **Castillo-Chavez, Carlos et al.**, (**2004k:92003**)
Song, Seuck Heun *see* **Jeske, Roland**, **2004d:62304**
Song, Xin-Yuan *see* **Lee, Sik-Yum**
Souto de Miranda, M. M. Robust estimation in the linear structural relation model: a study on tuning constants. (English summary) (*see* **2004a:62010**)
Speckman, Paul L. *see* **Jiang, Yi**[3] **et al.**
Spreij, Peter *see* **Klein, André**, **2004e:62157**
Srivastava, S. Rani *see* **Khare, B. B.**, **2004d:62031**
Stenseth, Nils Chr. *see* **Zhang, Wenyang et al., 2004i:62113***and* **Chan, Kung Sik et al.**
Stern, Hal S. *see* **Wright, Deanne L. et al.**
Stoimenova, Eugenia (*with* Datcheva, M.; Schanz, T.) Application of two-phase regression to geotechnical data. (English summary)
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Stone, Charles J. *see* **Kooperberg, Charles**, (**2004d:62006**)
Storey, John D. (*with* Taylor, Jonathan E.; Siegmund, David) Strong control, conservative point estimation and simultaneous conservative consistency of false discovery rates: a unified approach. (English summary) **2004k:62056**
Storti, Giuseppe (*with* Vitale, Cosimo) Likelihood inference in BL-GARCH models. (English summary)
Strathdee, Steffanie A. *see* **Frangakis, Constantine E. et al.**
Streett, Sarah B. *see* **Davis, Richard Alan et al., 2004j:62171**
Stroud, Jonathan R. (*with* Müller, Peter[2]; Polson, Nicholas G.) Nonlinear state-space models with state-dependent variances. (English summary)
Sugden, Mark A. *see* **Whyte, Jason M. et al.**
Sugimoto, Tomoyuki (*with* Goto, Masashi) The proportional hazards model of time-varying type and a class of rank test. (Japanese. English and Japanese summaries) **2004k:62242**
Sun, Hai Yan *see* **Hu, Hong Chang**, **2004j:62070**
Sun, Jianguo (*with* Sun, Liu-quan; Flournoy, Nancy) Additive hazards model for competing risks analysis of the case-cohort design. (English summary) **2004m:62222**
— *see also* **Rai, Shesh N. et al.**, (**2004k:62018**)
Sun, Jiayang *see* **Charnigo, Richard**
Sun, Liu-quan *see* **Sun, Jianguo et al., 2004m:62222**
Sun, Xiang *see* **Wong, Augustine C. M. et al.**
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Taniguchi, Masanobu *see* **Vellaisamy, P. et al.**, **2004f:62198**
Tanner, Martin A. *see* **Huerta, Gabriel et al., 2004j:62181**
Tarasińska, Joanna Making use of incomplete observations for regression in bivariate normal model. (English summary) **2004a:62127**
Taylor, Jonathan E. *see* **Storey, John D. et al., 2004k:62056**
Tesařiková, Eva *see* **Kubáček, Lubomír**, **2004b:62156**
Thomas, P. Yageen *see* **Samuel, Philip**
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Thompson, Mary E. Likelihood principle and randomization in survey sampling. (English summary) (*see* **2004j:62008**)
Tian, Guo-Liang *see* **Tan, Ming et al., 2004e:62022**
Tian, Maozai (*with* He, Can Zhi) A generalized variance-ratio test for a heteroskedastic regression. (English and Chinese summaries) **2004j:62030**
Tien, Hsiao-Chuan *see* **Chen, Pai-Lien**
Tiensuwan, Montip *see* **Sarikavanij, Sukuman**
Tomer, Sanjeev K. *see* **Chaturvedi, Ajit**, **2004d:62346**
Tong, Howell *see* **Zhang, Wenyang et al., 2004i:62113***and* **Chan, Kung Sik et al.**
Torondzhadze, T. A. *see* **Lazrieva, N., 2004g:62055**
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Tsai, Tzong-Ru *see* **Wu, Shuo-Jye et al., 2004m:62210**
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Tsiatis, Anastasios A. *see* **Wahed, Abdus S.**
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Tutz, G. (*with* Scholz, T.) Semiparametric modelling of multicategorical data. (English summary)
Ullah, Aman *see* **Rilstone, Paul**, (**2004k:62018**)
Uno, Chikara *see* **Isogai, Eiichi et al., 2004f:62158**
Van Damme, Pierre *see* **Shkedy, Ziv et al.**
Van Huffel, Sabine *see* **Kukush, A. G., 2004m:62129**
Varadhan, Ravi *see* **Frangakis, Constantine E. et al.**
Varakin, A. B. (*with* Veretennikov, A. Yu.) On parameter estimation for "polynomial ergodic" Markov chains with polynomial growth loss functions. (English summary) **2004b:62076**
Velasco, Maria Cristina *see* **Del Valle, Sara et al.**
Vellaisamy, P. (*with* Sankar, Shanmugam; Taniguchi, Masanobu) Estimation and design of sampling plans for monitoring dependent production processes. (English summary) **2004f:62198**
Venezian, Emilio C. *see* **Powers, Michael R. et al., 2004b:91117**
Veredas, David *see* **Bauwens, Luc**
Veretennikov, A. Yu. *see* **Varakin, A. B., 2004b:62076**
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Vermunt, Jeroen K. An EM algorithm for the estimation of parametric and nonparametric hierarchical nonlinear models. (English summary)
Vespignani, Alessandro *see* **Pastor-Satorras, Romualdo**, (**2004f:00010**)
Vitale, Cosimo *see* **Storti, Giuseppe**
Vlahov, David *see* **Frangakis, Constantine E. et al.**
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Walker, A. Morris A note on estimation by least squares for harmonic component models. (English summary) **2004h:62167**
Walker, Stephen G. *see* **Nicoleris, Theodoros**, **2004k:62077**
Wang, Jin Fang *see* **Small, Christopher G., 2004k:62012**
Wang, Junyuan (*with* Fuller, Wayne A.) The mean squared error of small area predictors constructed with estimated area variances. (English summary) **2004h:62128**
Wang, Weiren *see* **Famoye, Felix**
Wang, Xiaogang (Steven) (*with* van Eeden, Constance; Zidek, James V.) Asymptotic properties of maximum weighted likelihood estimators. (English summary) **2004k:62078**
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Wasserman, Larry ★ All of statistics. **2004m:62003**
Wassmer, Gernot *see* **Coburger, Silke**
Watson, Ray *see* **Fang, Xiangzhong et al.**
Wefelmeyer, Wolfgang *see* **Müller, Ursula U. et al., 2004m:62087**
Welfe, Władysław Growth determinants of Poland's economic potential. (English summary) (*see* **2004k:62015**)
Wellner, Jon A. *see* **Breslow, Norman E. et al., 2004m:62103**
West, R. Webster *see* **Al-Saidy, Obaid M. et al.**
Whitcher, Brandon Wavelet-based estimation for seasonal long-memory processes. (English summary)
Whyte, Jason M. (*with* Sugden, Mark A.; Abbott, Geoffrey D.; Metcalfe, Andrew V.; Pearce, Charles E. M.) Estimation of parameters in pyrolysis kinetics. (English summary)
Wild, Chris *see* **Scott, Alastair**, (**2004a:62008**)
Wilkinson, Darren J. (*with* Yeung, Stephen K. H.) A sparse matrix approach to Bayesian computation in large linear models. (English summary) **2004j:62144**
Wiuf, Carsten Inferring population history from genealogical trees. (English summary) **2004c:92017**
Woerner, Jeannette H. C. Local asymptotic normality for the scale parameter of stable processes. (English summary) **2004d:62111**
Wolfson, David B. *see* **Zhou, Xiaojie et al., 2004i:62143**
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Wong, Heung *see* **Ip, Wai Cheung et al.**
Wood, Andrew T. A. Laplace/saddlepoint approximations. (*see* **2004a:62014**)
Woźniakowski, Henryk *see* **Wasilkowski, Grzegorz W., 2004b:65222**
Wright, Deanne L. (*with* Stern, Hal S.; Cressie, Noel) Loss functions for estimation of

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Wu, Changbao Optimal calibration estimators in survey sampling. (English summary) **2004j:62021**
Wu, Jian Rong[1] *see* **Wong, Augustine C. M. et al.**
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Wu, Rongling *see* **Ma, Chang-Xing et al., 2004j:92047**
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Wüthrich, Mario V. Claims reserving using Tweedie's compound Poisson model. (English summary)
Xie, Min[1] *see* **Yang, Zhenlin et al., 2004e:62185** *and* **Cui, Lirong et al., 2004j:90031**
Xue, Liu Gen Rates of random weighting approximation of wavelet estimates in semiparametric regression model. (Chinese. English and Chinese summaries) **2004h:62079**
Xue, Qing Zhong *see* **Tan, Jun**
Yan, Wang *see* **Fang, Xiangzhong et al.**
Yang, Yi *see* **Zheng, Ming[2] et al., 2004h:62181**
Yang, Zhenlin (*with* See, Stanley P.; Xie, Min[1]) Transformation approaches for the construction of Weibull prediction interval. (English summary) **2004e:62185**
Yao, Qiwei *see* **Zhang, Wenyang et al., 2004i:62113**
Yatracos, Yannis Assessing the quality of bootstrap samples and of the bootstrap estimates obtained with finite resampling. (English summary) **2004c:62018**
Yee, Thomas W. An implementation for regression quantile estimation. (English summary) (*see* **2004a:62009**)
Yeh, Arthur B. *see* **Montepiedra, Grace**
Yeung, Stephen K. H. *see* **Wilkinson, Darren J., 2004j:62144**
Ying, Zhiliang *see* **Chen, Huann-Sheng et al., 2004k:62229**
Yip, Paul S. F. *see* **Fang, Xiangzhong et al.**
Yu, Jun[6] *see* **Tse, Y. K. et al.**
Yu, Shang Yi *see* **Zhao, Jian Xin et al.**
Yuen, Kam C. *see* **Chen, Min[4] et al., 2004c:62198**
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Zeifman, Michael I. (*with* Ingman, Dov) Continuous Markovian model for unexpected shift in SPC. (English summary)
Zeroual, A. *see* **Safi, S.**
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Zhang, He Ping[1] (*with* Feng, Rui; Zhu, Hong-Tu) A latent variable model of segregation analysis for ordinal traits. (English summary) **2004k:62253**
Zhang, Juan[3] *see* **Castillo-Chavez, Carlos et al.**, (**2004k:92003**)
Zhang, Li Zhen *see* **Zhao, Jian Xin et al.**
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Zhao, Jia Kun *see* **Zhao, Wei**
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Zhu, Hong-Tu *see* **Zhang, He Ping[1] et al., 2004k:62253**
Zhu, Li-Xing (*with* Cui, Heng-jian) A semi-parametric regression model with errors in variables. (English summary) **2004k:62164**
— *see also* **Chen, Min[4] et al., 2004c:62198**
Zidek, James V. *see* **van Eeden, Constance**, **2004d:62118**; **2004j:62062** *and* **Wang, Xiaogang (Steven) et al., 2004k:62078**
Zieliński, Ryszard Constructing median-unbiased estimators in one-parameter families of distributions via stochastic ordering. (English summary) **2004k:62115**
Zijlstra, Bonne J. H. *see* **van Duijn, Marijtje A. J. et al.**
Zografos, K. *see* **Menéndez, M. L. et al., 2004d:62070**
Zou, Qiyue *see* **Ober, Raimund J. et al., 2004h:94019**
Zou, Ying[2] *see* **Sobel, Michael E. et al.**
van Zwet, Willem R. *see* **Fiocco, Marta**, (**2004a:62014**)

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Gulati, Sneh**, **2004a:62003** *and* **Groß, Jürgen, 2004m:62006**

62F12 Asymptotic properties of estimators

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Akahira, Masafumi (*with* Ohyauchi, Nao) Information inequalities for the Bayes risk for a family of non-regular distributions. (English summary) **2004b:62073**
Alawneh, Ameen J. *see* **Al-Eideh, Basel M., 2004c:62071**
Albers, Willem (*with* Kallenberg, Wilbert C. M.; Nurdiati, Sri) Parametric control charts. (English summary)
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Al-Eideh, Basel M. (*with* Alawneh, Ameen J.) Asymptotic distribution of MLE's of the parameters for a diffusion model with catastrophes and some related inference problems. (English summary) **2004c:62071**
Amari, Sh. *see* **Burnashev, Marat V. et al., 2004e:62056**
Andrews, Donald W. K. Generalized method of moments estimation when a parameter is on a boundary. (English summary) **2004b:62074**
Anido, Carmen (*with* Rivero, Carlos; Valdés, Teófilo) Recursive estimation in linear models with general errors and grouped data: a median-based procedure and related asymptotics. (English summary) **2004d:62107**
Aoshima, Makoto (*with* Enoki, Hiroyuki; Ito, Osamu) Monotone Bartlett-type correction for some test statistics under nonnormality. (English summary)
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Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) Estimation of the maximal moment exponent of a GARCH(1, 1) sequence. (English summary) **2004e:62053**
Berrendero, Jose Ramon Uniform strong consistency of robust estimators. (English summary) **2004f:62072**
Bhattacharyya, B. B. (*with* Ren, Jian-Jian; Richardson, Gary D.; Zhang, Jie) Spatial autoregression model: strong consistency. (English summary) **2004j:62045**
Bishwal, J. P. N. Maximum likelihood estimation in partially observed stochastic differential system driven by a fractional Brownian motion. (English summary) **2004e:62054**
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Bondarēv, Boris V. (*with* Selyakov, K. B.) On an estimator for an unknown parameter in a first-order autoregressive procedure ($|\theta| > 1$). (Ukrainian. Ukrainian summary) **2004e:62055**
Borisov, I. S. (*with* Mironov, D. V.) Rate of convergence of the distributions of normalized maximum likelihood estimates for irregular parametric families. (Russian. Russian summary) **2004c:62073**
Burnashev, Marat V. (*with* Han, Te Sun; Amari, Sh.) On some estimation problems with information restrictions. (Russian. Russian summary) **2004e:62056**
Chen, Jiahua (*with* Gupta, Arjun K.) Information-theoretic approach for detecting change in the parameters of a normal model. (English summary) **2004c:62074**
Chen, Willa W. (*with* Hurvich, Clifford M.) Estimating fractional cointegration in the presence of polynomial trends. (English summary) **2004g:62052**
Chen, Xiru *see* **Zhang, Sanguo, 2004j:62048**
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Choi, Seung Hoe (*with* Kim, Hae Kyung; Lee, Young) Nonlinear asymmetric least squares estimators. (English summary) **2004e:62057**
Comte, Fabienne (*with* Lieberman, Offer) Asymptotic theory for multivariate GARCH processes. (English summary) **2004e:62058**
Cui, Heng-jian (*with* He, Xuming; Ng, Kai Wang) *M*-estimation for linear models with spatially-correlated errors. (English summary) **2004m:62068**
Dastoor, Naorayex K. The equality of comparable extended families of classical-type and Hausman-type statistics. (English summary) **2004i:62049**
Diebolt, Jean (*with* Guillou, Armelle; Rached, Imen) A new look at probability-weighted moments estimators. (English and French summaries) **2004m:62069**
Dom´ inguez Toribio, Manuel *see* **Aguirre-Torres, Victor, 2004m:62067**
Dubinin, Thomas Michael (*with* Vardeman, Stephen Bruce) Likelihood-based inference in some continuous exponential families with unknown threshold parameters. (English summary) **2004h:62050**
van Eeden, Constance *see* **Wang, Xiaogang (Steven) et al., 2004k:62078**
El Bantli, Faouzi M-estimation in linear models under nonstandard conditions. (English summary) **2004k:62075**
Enoki, Hiroyuki *see* **Aoshima, Makoto et al.**
Fellag, Hocine *see* **Nouali, Karima, 2004d:62109**
Fukumizu, Kenji Likelihood ratio of unidentifiable models and multilayer neural networks. (English summary) **2004j:62047**
van Garderen, Kees Jan *see* **Taniguchi, Masanobu et al., 2004g:62057**
Gleser, Leon J. *see* **Shalabh et al.**
Guillou, Armelle *see* **Diebolt, Jean et al., 2004m:62069**
Guo, Huizhen (*with* Pal, Nabendu) On a normal mean with known coefficient of variation. (English summary) **2004k:62076**
Gupta, Arjun K. *see* **Chen, Jiahua, 2004c:62074**
Hadjicostas, Petros Consistency of logistic regression coefficient estimates calculated from a training sample. (English summary) **2004f:62073**
Han, Te Sun *see* **Burnashev, Marat V. et al., 2004e:62056**
Hayakawa, Takesi Asymptotic expansions for the posterior distribution of certain statistics. (Japanese)
He, Xuming *see* **Cui, Heng-jian et al., 2004m:62068**
Horváth, Lajos *see* **Berkes, István et al., 2004e:62053**
Hurvich, Clifford M. *see* **Chen, Willa W., 2004g:62052**
Inglot, Tadeusz (*with* Kallenberg, Wilbert C. M.) Moderate deviations of minimum contrast estimators under contamination. (English summary) **2004g:62053**
Ito, Osamu *see* **Aoshima, Makoto et al.**
Kallenberg, Wilbert C. M. *see* **Inglot, Tadeusz, 2004g:62053** *and* **Albers, Willem et al.**
Kang, Hee-Jeong *see* **Shin, Key-Il et al., 2004e:62060**
Kim, Hae Kyung *see* **Choi, Seung Hoe et al., 2004e:62057**
Kim, Yoon Tae (*with* Park, Hyun Suk) Parameter estimation for a Hilbert space-valued stochastic differential equation. II. (English summary) **2004g:62054**
Kokoszka, P. S. *see* **Berkes, István et al., 2004e:62053**
Koul, Hira L. Asymptotic distributions of some scale estimators in nonlinear models.

(English summary) (*see* **2004a:62010**)
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Kühn, Christoph (*with* Steinebach, J. G.) On the estimation of change parameters based on weak invariance principles. (English summary) **2004e:62059**
Kundu, Debasis *see* **Nandi, Swagata[2], 2004d:62108**
Lazrieva, N. (*with* Torondzhadze, T. A.) General M-estimators in the presence of nuisance parameters. Skew projection technique. (English summary) **2004g:62055**
Lee, Young *see* **Choi, Seung Hoe et al., 2004e:62057**
Lieberman, Offer *see* **Comte, Fabienne, 2004e:62058**
Mironov, D. V. *see* **Borisov, I. S., 2004c:62073**
Nagao, Hisao On second-order regret for successive point-estimation problems for mean vectors of multi-dimensional distributions under non-parametric circumstances. (Japanese)
Nandi, Swagata[2] (*with* Kundu, Debasis) Complex AM model for non stationary speech signals. (English summary) **2004d:62108**
Newey, Whitney K. (*with* Smith, Richard J.) Higher order properties of GMM and generalized empirical likelihood estimators. (English summary) **2004m:62070**
Ng, Kai Wang *see* **Cui, Heng-jian et al., 2004m:62068**
N'Guessan, Assi Constrained covariance matrix estimation in road accident modelling with Schur complements. (English and French summaries) **2004g:62056**
Nicoleris, Theodoros (*with* Walker, Stephen G.) On Hellinger consistent density estimation. (English summary) **2004k:62077**
Nouali, Karima (*with* Fellag, Hocine) Approximate bias for first-order autoregressive model with uniform innovations. Small sample case. (English summary) **2004d:62109**
Nurdiati, Sri *see* **Albers, Willem et al.**
Ohyauchi, Nao *see* **Akahira, Masafumi, 2004b:62073**
Pal, Nabendu *see* **Guo, Huizhen, 2004k:62076**
Park, Hyun Suk *see* **Kim, Yoon Tae, 2004g:62054**
Park, Sangun *see* **Zheng, Gang[1]**
Puri, Madan L. *see* **Taniguchi, Masanobu et al., 2004g:62057**
Qian, Lianfen *see* **Koul, Hira L. et al., 2004b:62075**
Rached, Imen *see* **Diebolt, Jean et al., 2004m:62069**
Rao, Calyampudi Radhakrishna *see* **Babu, Gutti Jogesh, 2004c:62072**
Ren, Jian-Jian *see* **Bhattacharyya, B. B. et al., 2004j:62045**
Richardson, Gary D. *see* **Bhattacharyya, B. B. et al., 2004j:62045**
Rivero, Carlos *see* **Anido, Carmen et al., 2004d:62107**
Rosen, Ori *see* **Shalabh et al.**
Roy, Anindya (*with* Seidman, Thomas I.) On consistency of estimators in simple linear regression models. (English summary) **2004h:62051**
Santos, Manuel S. Estimation by simulation of monotone dynamical systems. (English summary) **2004i:62050**
Sartori, N. Modified profile likelihoods in models with stratum nuisance parameters. (English summary)
Seidman, Thomas I. *see* **Roy, Anindya, 2004h:62051**
Selyakov, K. B. *see* **Bondarēv, Boris V., 2004e:62055**
Shalabh (*with* Gleser, Leon J.; Rosen, Ori) On the usefulness of knowledge of error variances in the consistent estimation of an unreplicated ultrastructural model. (English summary)
Shin, Key-Il (*with* Kang, Hee-Jeong; Sim, Songyong) A new proof of efficiency of LAD estimation in an autoregressive process. (English summary) **2004e:62060**
Sim, Songyong *see* **Shin, Key-Il et al., 2004e:62060**
Smith, Richard J. *see* **Newey, Whitney K., 2004m:62070**
Steinebach, J. G. *see* **Kühn, Christoph, 2004e:62059**
Sundaram, Rajeshwari Minimum distance estimation in doubly censored two sample scale model. (English summary) **2004d:62110**
Surgailis, Donatas *see* **Koul, Hira L. et al., 2004b:62075**
Takagi, Yoshiji Second-order asymptotic optimality of estimators under a universal domination criterion. (Japanese)
Taniguchi, Masanobu (*with* van Garderen, Kees Jan; Puri, Madan L.) Higher order asymptotic theory for minimum contrast estimators of spectral parameters of stationary processes. (English summary) **2004g:62057**
Torondzhadze, T. A. *see* **Lazrieva, N., 2004g:62055**
Valdés, Teófilo *see* **Anido, Carmen et al., 2004d:62107**
Varakin, A. B. (*with* Veretennikov, A. Yu.) On parameter estimation for "polynomial ergodic" Markov chains with polynomial growth loss functions. (English summary) **2004b:62076**
Vardeman, Stephen Bruce *see* **Dubinin, Thomas Michael, 2004h:62050**
Veretennikov, A. Yu. *see* **Varakin, A. B., 2004b:62076**
Walker, Stephen G. *see* **Nicoleris, Theodoros, 2004k:62077**
Wang, Xiaogang (Steven) (*with* van Eeden, Constance; Zidek, James V.) Asymptotic properties of maximum weighted likelihood estimators. (English summary) **2004k:62078**
Watamori, Yoko Asymptotic conjecture for parameters in Langevin distributions. (Japanese)
Woerner, Jeannette H. C. Local asymptotic normality for the scale parameter of stable processes. (English summary) **2004d:62111**
Xie, Minge (*with* Yang, Yaning) Asymptotics for generalized estimating equations with large cluster sizes. (English summary) **2004f:62074**
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Linke, Yu. Yu. *see* **Askarova, Yu. V., 2004k:62161**
Liu, Bing Jie *see* **Zhao, Xuan Min, 2004e:62179**
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Rao, M. Bhaskara *see* **Jia, Xinwei et al., 2004j:62141**
Ridolfi, Andrea *see* **Ciuperca, Gabriela et al., 2004d:62085**
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Zontek, Stefan *see* **Zmyślony, Roman, 2004f:62083**
van Zuijlen, Martien C. A. *see* **Ispány, Márton et al., 2004f:62168**

62F15 Bayesian inference

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Bekker, A. V. *see* **Yadavalli, V. S. S.**
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Consonni, Guido *see* **Leucari, Valentina, 2004i:62054; Roverato, Alberto, 2004k:62084** *and* **Bottolo, Leonardo et al.**
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Cressie, Noel *see* **Wright, Deanne L. et al.**
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Ghosh, Jayanta K. *see* **Berger, James O. et al., 2004a:62067; Amewou-Atisso, Messan et al., 2004f:62075; Mukhopadhyay, Nitai, 2004h:62053** *and* **Salinetti, Gabriella, 2004j:62054**
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Green, Peter J. *see* **Nott, David J.**
Guglielmi, Alessandra *see* **Regazzini, Eugenio et al., 2004h:62054**
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Hahn, Jinyong Does Jeffrey's prior alleviate the incidental parameter problem? (English summary) **2004m:62074**
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Han, Yu Qi *see* **Zhu, Hui Ming, 2004j:62057**
Haq, M. Safiul *see* **Thabane, Lehana, (2004j:62008)**
He, Chong Z. *see* **Woodard, Roger et al., 2004j:62056**
Heo, Jungeun *see* **Ghosh, Malay, 2004b:62080**
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Houser, Daniel *see* **Geweke, John et al., (2004j:62006)**
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Hsiao, Chuhsing Kate *see* **Huang, Su-Yun et al., 2004g:62058**
Huang, Su-Yun (*with* Hsiao, Chuhsing Kate; Chang, Ching-Wei) Optimal volume-corrected Laplace-Metropolis method. (English summary) **2004g:62058**
Hwang, Changha *see* **Green, Paul E. et al.**
Ibrahim, Joseph G. *see* **Mezzetti, Maura et al.**
Iliopoulos, George Some new estimators of the binomial parameter n. (English summary) **2004c:62077**
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Jouneau-Sion, Frédéric *see* **Albano, Gian Luigi**

Juárez, Miguel A. *see* **Bernardo, José M., (2004g:62009)**

Kaipio, Jari P. (*with* Somersalo, Erkki) Estimating anomalies from indirect observations. (English summary) **2004b:62081**

Kang, Hyung-Dong *see* **Preuss, Roland et al., 2004a:62070**

Kang, Sang Gil *see* **Kim, Dal Ho et al., 2004j:62053**

Karunamuni, Rohana J. *see* **Ding, Keyue, 2004j:62050**

Keane, Michael P. *see* **Geweke, John et al., (2004j:62006)**

Kim, Byung Hwee *see* **Chang, In Hong et al., 2004c:62076**

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Kim, Yeong-Hwa *see* **Ghosh, Malay et al., 2004k:62082** *and* **(2004j:62008)**

Koop, Gary (*with* Steel, Mark F. J.) Bayesian analysis of stochastic frontier models. (*see* **2004j:62006**)

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Kumagai, Etsuo (*with* Inagaki, Nobuo) Note on the Bayes approach to a grouping of small events. (English summary) **2004h:62052**

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Lee, Sangbock *see* **Green, Paul E. et al.**

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Lee, Woo Dong *see* **Kim, Dal Ho et al., 2004j:62053**

Leite, José Galvão *see* **Zacharias, Helder Paulo et al., 2004h:62055**; **da-Silva, Cibele Q. et al.** *and* **Tutia, Marcelo Hiroshi et al.**

Lerche, Hans Rudolf *see* **Beibel, Martin, 2004j:62049**

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Liang, TaChen Rate of convergence for empirical Bayes estimation of a distribution function. (English summary) **2004e:62063**

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Lillo, Rosa E. *see* **Ausín, M. Concepción et al.**

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Liu, Fu Sheng *see* **Wang, Jian Xing**

Liu, Lu Qin *see* **Shen, Shu Xia, 2004c:62078**

Loperfido, Nicola *see* **Liseo, Brunero, 2004d:62112**

Louis, Thomas A. *see* **Eberly, Lynn E., 2004k:62080**

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Marrelec, G. (*with* Benali, H.; Ciuciu, P.; Poline, J.-B.) Bayesian estimation of the hemodynamic response function in the functional MRI. (English summary) **2004a:62069**

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de Moraes, Ronei Marcos *see* **de Melo, Ana Cláudia Oliveira et al.**

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Morettin, Pedro A. *see* **Sáfadi, Thelma, 2004f:62080**

Mrayan, Ghadeer *see* **Al-Saleh, Mohammad Fraiwan, 2004k:62079**

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Nandram, Balgobin *see* **Han, Geunshik**

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Neuhaus, John *see* **Paulino, Carlos Daniel et al.**

Ngo, Long *see* **Mezzetti, Maura et al.**

Nott, David J. (*with* Green, Peter J.) Bayesian variable selection and the Swendsen-Wang algorithm. (English summary)

Otter, Thomas *see* **Frühwirth-Schnatter, Sylvia et al.**

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Poline, J.-B. *see* **Marrelec, G. et al., 2004a:62069**

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Racugno, Walter *see* **Moreno Bas, Elías et al., 2004g:62060**

Ramamoorthi, R. V. *see* **Amewou-Atisso, Messan et al., 2004f:62075**

Ramos-Quiroga, Rogelio *see* **Díaz-García, José A., 2004i:62052**

Raphael, Christopher Bayesian networks with degenerate Gaussian distributions. (English summary) **2004f:62079**

Regazzini, Eugenio (*with* Guglielmi, Alessandra; Di Nunno, Giulia) Theory and numerical analysis for exact distributions of functionals of a Dirichlet process. (English summary) **2004h:62054**

Reid, Nancy *see* **Fraser, Donald A. S. et al., (2004g:62009)**

Roberts, Gareth O. *see* **Papaspiliopoulos, Omiros et al., (2004g:62009)**

Rodrigues, Josemar *see* **da-Silva, Cibele Q. et al.**

Rodríguez-Bernal, María Teresa *see* **de la Horra Navarro, J., 2004e:62061**

Roverato, Alberto (*with* Consonni, Guido) Compatible prior distributions for directed acyclic graph models. (English summary) **2004k:62084**

Roy, Manindra Kumar *see* **Islam, A. F. M. Saiful**

Rueda, R. *see* **Gutiérrez-Peña, E., 2004a:62068**

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Ryan, Louise M. *see* **Mezzetti, Maura et al.**

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Schwarz-Selinger, T. *see* **Preuss, Roland et al., 2004a:62070**

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Shen, Shu Xia (*with* Liu, Lu Qin) The relative efficiencies of Bayes estimator and LSE estimator for regression coefficients. (Chinese. English and Chinese summaries) **2004c:62078**

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Simon, Gregory *see* **Rutter, Carolyn M.**

Sinsheimer, Janet S. *see* **Suchard, Marc A. et al.**

Sköld, Martin *see* **Papaspiliopoulos, Omiros et al., (2004g:62009)**

Smith, Thomas J. *see* **Mezzetti, Maura et al.**

Soares, Paulo *see* **Paulino, Carlos Daniel et al.**

Somersalo, Erkki *see* **Kaipio, Jari P., 2004b:62081**

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Stern, Hal S. *see* **Wright, Deanne L. et al.**

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Torres Ruiz, F. *see* **Girón González-Torre, Francisco Javier et al., 2004i:62053** *and* **Moreno Bas, Elías et al., 2004k:62083**

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Wang, Liqun *see* **Fu, James C., 2004f:62077**
Weiss, Robert E. *see* **Suchard, Marc A. et al.**
Weng, Ruby C. On Stein's identity for posterior normality. (English summary) **2004c:62079**
(Wilkinson, Darren J.) *see* **Papaspiliopoulos, Omiros et al., (2004g:62009)**
Wiper, Michael P. *see* **Ausín, M. Concepción et al.**
Wong, Augustine C. M. *see* **Fraser, Donald A. S. et al., (2004g:62009)**
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Wu, Hsien-Chung The fuzzy estimators of fuzzy parameters based on fuzzy random variables. (English summary) **2004e:62064**
Xu, Daming *see* **Chen, Ming-Hui et al., 2004m:62071**
Yadavalli, V. S. S. (*with* Bekker, A. V.) Stochastic model of an intermittently used system with non-perpetual vigil: its estimation study. (English summary)
Yang, Tae Young *see* **Chung, Younshik et al., 2004m:62072**
Yi, Grace Y. *see* **Fraser, Donald A. S. et al., (2004g:62009)**
Yin, Ming *see* **Ghosh, Malay et al., 2004k:62082**
Yoon, Gi-Ern *see* **Ali, Mir Masoom et al., (2004j:62008)**
Young, Dean M. *see* **Stamey, James D. et al.**
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Zhu, Hui Ming (*with* Han, Yu Qi) Design of a Bayesian method for testing a linear hypothesis based on diffuse prior distribution. (Chinese. English and Chinese summaries) **2004j:62057**

Items with secondary classifications in 62F15

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Akahira, Masafumi (*with* Ohyauchi, Nao) Information inequalities for the Bayes risk for a family of non-regular distributions. (English summary) **2004b:62073**
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Angers, Jean-François *see* **Biswas, Atanu, 2004j:62216**
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Atanasov, Dimitar About the concept of weights of WLTE(k) estimators. (English summary)
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Baggerly, Keith A. *see* **Morris, Jeffrey S. et al.**
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Barone, Piero *see* **de Pasquale, Francesco et al.**
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Bina, Minou *see* **Xie, Jun et al.**
Biswas, Atanu (*with* Angers, Jean-François) A Bayesian adaptive design in clinical trials for continuous responses. (English summary) **2004j:62216**
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Bobovich, Elizabeta *see* **Bar-Lev, Shaul K. et al.**
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Branco, Márcia D. *see* **Sahu, Sujit K. et al., 2004h:62027**
Britton, Tom *see* **Becker, Niels G. et al.**
Brooks, Stephen P. *see* **Andersen, Kim E. et al.** *and* **Jamieson, Lara E., (2004g:62009)**
Carlin, Bradley P. *see* **Hodges, James S. et al., 2004d:62200; Davy, Manuel, (2004g:62009)** *and* **Banerjee, Sudipto**
Carlin, John B. *see* **Gelman, Andrew et al., 2004j:62001**
Chaloner, Kathryn *see* **Han, Cong, 2004m:62165**
Chaovalitwongse, Wanpracha *see* **Pardalos, Panos M. et al., 2004d:62372**
Charif, Husni A. *see* **Ismail, Mohamed A.**
Chen, Ming-Hui *see* **Sinha, Debajyoti et al., 2004g:62180**
Chen, Zhen *see* **Dunson, David B.**
Chinipardaz, Rahim (*with* Noorbaloochi, Siamak) The reconcilability of P-values and posterior probability in nonregular distributions. (English summary) **2004g:62038**
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Christensen, Ronald *see* **Johnson, Wesley O. et al.**
Clarke, Bertrand *see* **Gustafson, Paul, 2004i:62129**
(Clyde, Merlise A.) *see* **Genovese, Christopher, (2004g:62009)**
Cobelli, Claudio *see* **Pillonetto, Gianluigi et al., 2004e:92011**
Coles, Stuart *see* **Anderson, Clive W.**
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Crowder, Martin J. *see* **Stephens, David A. et al.**
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Das, Kalyan *see* **Biswas, Atanu**
Dasgupta, Abhijit[2] *see* **Das Gupta, Somesh, 2004a:62125**
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De Laurentiis, M. *see* **Eleuteri, A. et al.**
Dellaportas, Petros *see* **Stephens, David A. et al.**
Denison, David G. T. *see* **Ferreira, J. T. A. S. et al., (2004f:62020)**
De Placido, S. *see* **Eleuteri, A. et al.**
Dey, Dipak K. *see* **Sahu, Sujit K. et al., 2004h:62027; Micheas, Athanasios C., 2004h:62033** *and* **2004m:62079**
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Dieterich, Peter *see* **Preuss, Roland et al., (2004f:62019)**
Dobra, Adrian (*with* Hans, C. M.; Jones, Beatrix; Nevins, Joseph R.; Yao, Guang; West, Mike) Sparse graphical models for exploring gene expression data. (English summary)
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Evans, Michael John (*with* Zou, Tianli) On the robustness of relative surprise inferences to the choice of prior. (English summary) **2004k:62091**
Fan, Qiao *see* **Hodges, James S. et al., 2004d:62200**
Fei, He Liang *see* **Ni, Zhong Xin, 2004i:62172**
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Gardner, Ian A. *see* **Johnson, Wesley O. et al.**
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Ghosh, Malay (*with* Heo, Jungeun) Default Bayesian priors for regression models with first-order autoregressive residuals. (English summary) **2004d:62297**
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Groenewald, Pieter C. N. Change-point analysis of the CD4 cell count in HIV-positive patients. (English summary)
Gustafson, Paul (*with* Clarke, Bertrand) Decomposing posterior variance. (English summary) **2004i:62129**
Haddock, Joanna *see* **Bewley, Ronald**
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Han, Cong (*with* Chaloner, Kathryn) Bayesian experimental design for nonlinear mixed-effects models with application to HIV dynamics. (English and French summaries) **2004m:62165**
Han, Ming Estimation of reliability based on zero-failure data. (English and Chinese summaries) **2004e:62182**
Hans, C. M. *see* **Dobra, Adrian et al.**
Hansen, Martin B. *see* **Andersen, Kim E. et al.**
Hareter, Dietmar *see* **Viertl, Reinhard**
Hayakawa, Yu (*with* O'Neill, Philip D.; Upton, Darren; Yip, Paul S. F.) Bayesian inference for a stochastic epidemic model with uncertain numbers of susceptibles of several types. (English summary)
He, Chong Z. Bayesian modeling of age-specific survival in bird nesting studies under irregular visits. (English and French summaries) **2004i:62176**
He, Yang-Bo *see* **Geng, Zhi et al.**
Heo, Jungeun *see* **Ghosh, Malay**, **2004d:62297**
Herman, Gabor T. *see* **Liao, Hstau Y.**
Herring, Amy H. *see* **Dunson, David B.**
Higgins, Neil *see* **Kennedy, Marc C. et al.**, (**2004m:62011**)
Hirano, Keisuke (*with* Porter, Jack R.) Asymptotic efficiency in parametric structural models with parameter-dependent support. (English summary) **2004j:62219**
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Holmes, Christopher C. (*with* Mallick, Bani K.) Generalized nonlinear modeling with multivariate free-knot regression splines. (English summary)
— *see also* **Ferreira, J. T. A. S. et al.**, (**2004f:62020**)
Huggins, Richard M. *see* **Li, Ning[5] et al.**, **2004e:62192**
Hurn, Merrilee A. *see* **Sisson, S. A.**
Iasemidis, Leonidas D. *see* **Pardalos, Panos M. et al.**, **2004d:62372**
Ibazizen, Mohamed (*with* Fellag, Hocine) Bayesian estimation of an AR(1) process with exponential white noise. (English summary)
Ibrahim, Joseph G. *see* **Sinha, Debajyoti et al.**, **2004g:62180**
Iliopoulos, George (*with* Karlis, Dimitris) Simulation from the Bessel distribution with applications. (English summary) **2004e:65012**
Ismail, Mohamed A. (*with* Charif, Husni A.) Bayesian inference for threshold moving average models. (English summary)
Jaheen, Zeinhum F. Empirical Bayes inference for generalized exponential distribution based on records. (English summary)
James, Lancelot F. Bayesian calculus for gamma processes with applications to semiparametric intensity models. (English summary) **2004i:62067**
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Jamieson, Lara E. (*with* Brooks, Stephen P.) State space models for density dependence in population ecology. (English summary) (*see* **2004g:62009**)
Jandhyala, Venkata K. (*with* Alsaleh, Jamal A.) Bayesian inference for a change-point in nonlinear modeling. (English summary) (*see* **2004a:62007**)
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Jones, Beatrix *see* **Dobra, Adrian et al.**
Kang, Sang Gil *see* **Kim, Dal Ho et al.**, **2004f:62188**
Kang, Seung-Ho Investigation on the modified continual reassessment method in phase I clinical trial. (Korean. English and Korean summaries)
Karlis, Dimitris *see* **Iliopoulos, George**, **2004e:65012**
Kárný, Miroslav *see* **Gebouský, Petr et al.**, (**2004g:62009**)
Katsis, Athanassios New Bayesian criteria for optimizing the combined sample size for dependent binomial populations. (English summary)
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Katsura, Koichi *see* **Ogata, Yosihiko et al.**
Kennedy, Marc C. (*with* O'Hagan, Anthony; Higgins, Neil) Bayesian analysis of computer code outputs. (English summary) (*see* **2004m:62011**)
Kharroubi, Samer A. *see* **Sweeting, Trevor J.**
Kim, Dae-Hwang *see* **Yoo, Hee-Kyung et al.**
Kim, Dal Ho (*with* Kang, Sang Gil; Lee, Woo Dong) Noninformative priors for the power law process. (English summary) **2004f:62188**
— Bayesian and empirical Bayesian analysis under informative sampling. (English summary) **2004g:62026**
Kim, Hea-Jung A Bayesian method for finding minimum generalized variance among K multivariate normal populations. (English summary) **2004k:62147**
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Kim, Yongdai (*with* Lee, Jaeyong) Bayesian bootstrap for proportional hazards models. (English summary) **2004k:62095**
Ko, Seoung-Gon *see* **Oh, Hyun Sook et al.**
Kokki, Esa (*with* Penttinen, Antti) Poisson regression with change-point prior in the modelling of disease risk around a point source. (English summary)
Komaki, Fumiyasu Bayesian predictive distribution with right invariant priors. (English summary) **2004c:62013**
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Lahtinen, Jani (*with* Lampinen, Jouko) Reversible jump MCMC for two-state multivariate Poisson mixtures. (English summary)
Lai, Sue Min *see* **Parmigiani, Giovanni et al.**
Lampinen, Jouko *see* **Lahtinen, Jani** *and* **Tamminen, Toni**, (**2004g:62009**)
Landsman, Zinoviy M. (*with* Makov, Udi E.) Sequential quasi credibility for scale dispersion models. (English summary) **2004b:62187**
Lee, Jaeyong *see* **Kim, Yongdai**, **2004k:62095**
Lee, Sang-Joon[1] *see* **Thall, Peter F. et al.**
Lee, Woo Dong *see* **Kim, Dal Ho et al.**, **2004f:62188**
Lemm, Jörg C. ★ Bayesian field theory. (English summary) **2004f:62009**
Levický, Miroslav *see* **Andrejková, Gabriela**
Li, Ker-Chau *see* **Xie, Jun et al.**
Li, Ning[5] (*with* Qian, Guoqi; Huggins, Richard M.) A random effects model for diseases with heterogeneous rates of infection. (English summary) **2004e:62192**
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Lijoi, Antonio *see* **Regazzini, Eugenio et al.**, **2004d:60123**
Lin, Lu[2] Bayes quasi-likelihood with auxiliary information in seemingly unrelated nonlinear regression systems. (Chinese. English and Chinese summaries) **2004i:62121**
Lindgren, Finn ★ Stochastic modelling and reconstruction of random shapes. **2004f:62137**
Liseo, Brunero Bayesian and conditional frequentist analyses of the Fieller's problem. A critical review. (English summary) **2004d:62115**
Little, Roderick J. A. The Bayesian approach to sample survey inference. (*see* **2004a:62008**)
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Makov, Udi E. *see* **Landsman, Zinoviy M.**, **2004b:62187**
Mallick, Bani K. *see* **Kim, Hyoung-Moon**, **2004f:62123**; (**2004f:62020**) *and* **Holmes, Christopher C.**
Marshall, Guillermo *see* **de la Cruz-Mesía, Rolando**
Martín, Jacinto (*with* Ríos Insua, David; Ruggeri, Fabrizio) Joint sensitivity in Bayesian decision theory. (English summary) **2004d:62019**
Matchar, David B. *see* **Parmigiani, Giovanni et al.**
Matsumoto, Takashi *see* **Sugi, Junjiro et al.**
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Milano, Leopoldo *see* **Eleuteri, A. et al.**
Millikan, Randall E. *see* **Thall, Peter F. et al.**
Mohammadzadeh, Mohsen An empirical Bayes estimator for the scale parameter of Weibull distribution. (English summary)
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Montes Diez, R. *see* **Ríos Insua, David et al.**, **2004e:86009**
Morris, Jeffrey S. (*with* Baggerly, Keith A.; Coombes, Kevin R.) Bayesian shrinkage estimation of the relative abundance of mRNA transcripts using SAGE. (English and French summaries)
Mueller, Peter[2] *see* **Thall, Peter F. et al.**
Mukherjee, Bhramar *see* **Sinha, Samiran et al.**
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Nadarajah, Saralees The Kotz-type distribution with applications. (English summary)
Nevins, Joseph R. *see* **Dobra, Adrian et al.**
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Ni, Shawn (*with* Sun, Dong Chu) Noninformative priors and frequentist risks of Bayesian estimators of vector-autoregressive models. (English summary) **2004d:62310**
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Ni, Zhong Xin (*with* Fei, He Liang) Statistical analysis of the zero-failure data for the Weibull distribution. (Chinese. English and Chinese summaries) **2004i:62172**
Noorbaloochi, Siamak *see* **Chinipardaz, Rahim**, **2004g:62038**
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Ohyauchi, Nao *see* **Akahira, Masafumi**, 2004b:62073
O'Neill, Philip D. *see* **Becker, Niels G. et al.** *and* **Hayakawa, Yu et al.**
Özekici, Süleyman (*with* Soyer, Refik) Reliability of software with an operational profile. (English summary) **2004f:90028**
Palomo, J. *see* **Ríos Insua, David et al.**, 2004e:86009
Pardalos, Panos M. (*with* Sackellares, J. Chris; Iasemidis, Leonidas D.; Yatsenko, V. A.; Yang, Mark C. K.; Shiau, Deng-Shan; Chaovalitwongse, Wanpracha) Statistical information approaches for the modelling of the epileptic brain. (English summary) **2004d:62372**
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Pensky, Marianna Estimation of probabilities of linear inequalities for independent elliptic random vectors. (English summary) **2004j:62119**
Penttinen, Antti *see* **Kokki, Esa**
Pettit, Lawrence I. (*with* Wiper, Michael P.; Young, Karen D. S.) Bayesian inference for some Lanchester combat laws. (English summary) **2004a:90005**
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Porter, Jack R. *see* **Hirano, Keisuke**, 2004j:62219
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Prünster, Igor *see* **Regazzini, Eugenio et al.**, 2004d:60123
Qian, Guoqi *see* **Li, Ning[5] et al.**, 2004e:62192
Quinn, Anthony *see* **Gebouský, Petr et al.**, (2004g:62009)
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Ramoni, Marco F. *see* **Sebastiani, Paola**, 2004e:62012
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— Bayesian source separation of functional sources. (English summary)
Ruben, Harold A simple conservative and robust solution of the Behrens-Fisher problem. (English summary) **2004c:62051**
Rubin, Donald B. *see* **Gelman, Andrew et al.**, 2004j:62001
Ruggeri, Fabrizio *see* **Martín, Jacinto et al.**, 2004d:62019
Sackellares, J. Chris *see* **Pardalos, Panos M. et al.**, 2004d:62372
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Samaniego, Francisco J. *see* **Bhattacharya, Debasis et al.**, 2004f:62062
Samsa, Gregory P. *see* **Parmigiani, Giovanni et al.**
Schnittler, Hans J. *see* **Preuss, Roland et al.**, (2004f:62019)
Schwab, Albrecht *see* **Preuss, Roland et al.**, (2004f:62019)
Sebastiani, Giovanni *see* **de Pasquale, Francesco et al.**
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Sertkaya, Durdu (*with* Sözer, M. Tekin) A Bayesian approach to the constant hazard model with a change point and an application to breast cancer data. (English summary)
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Shi, Yi-min *see* **Xu, Yong[3] et al.**, 2004b:62015
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Sinha, Debajyoti (*with* Ibrahim, Joseph G.; Chen, Ming-Hui) A Bayesian justification of Cox's partial likelihood. (English summary) **2004g:62180**
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Sisson, S. A. (*with* Hurn, Merrilee A.) Bayesian point estimation of quantitative trait loci. (English and French summaries)
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So, Mike K. P. Posterior mode estimation for nonlinear and non-Gaussian state space models. (English summary) **2004b:62209**
Soyer, Refik *see* **Özekici, Süleyman**, 2004f:90028
Sözer, M. Tekin *see* **Sertkaya, Durdu**
Sparacino, Giovanni *see* **Pillonetto, Gianluigi et al.**, 2004e:92011
Sprott, David A. *see* **Díaz-Francés, Eloísa**
Stander, Julian *see* **de Pasquale, Francesco et al.**
Stephens, David A. (*with* Crowder, Martin J.; Dellaportas, Petros) Quantification of automobile insurance liability: a Bayesian failure time approach. (English summary)
Stern, Hal S. *see* **Gelman, Andrew et al.**, 2004j:62001
Storey, John D. The positive false discovery rate: a Bayesian interpretation and the q-value. (English summary) **2004k:62055**
Strasser McIntosh, J. (*with* Bennett, Bruce M.) L^p metric criteria for directed convergence. (English summary) **2004b:60009**
Stroud, Jonathan R. *see* **Polson, Nicholas G.**, (2004g:62009)
Su, Chun-Lung *see* **Johnson, Wesley O. et al.**
Sugi, Junjiro (*with* Kurihara, Takayuki; Matsumoto, Takashi) Hierarchical Bayesian estimation of minimum embedding dimension for dynamical systems. (Japanese. English and Japanese summaries)
Sun, Dong Chu (*with* Ni, Shawn) Bayesian analysis of vector-autoregressive models with noninformative priors. (English summary) **2004k:62211**
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Tagliaferri, Roberto *see* **Eleuteri, A. et al.**
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Tanemura, Masaharu *see* **Ogata, Yosihiko et al.**
Thall, Peter F. (*with* Millikan, Randall E.; Mueller, Peter[2]; Lee, Sang-Joon[1]) Dose-finding with two agents in Phase I oncology trials. (English and French summaries)
Tian, Guo-Liang (*with* Ng, Kai Wang; Geng, Zhi) Bayesian computation for contingency tables with incomplete cell-counts. (English summary) **2004b:62148**
Toman, Blaza *see* **Katsis, Athanassios**
Town, Robert J. *see* **Geweke, John et al.**
Train, Kenneth E. ★ Discrete choice methods with simulation. **2004g:62008**
Upton, Darren *see* **Hayakawa, Yu et al.**
Vach, W. *see* **Halekoh, U.**
Vázquez-Polo, F. J. *see* **Gómez-Déniz, E.**, (2004k:62016)
Veronese, Piero *see* **Consonni, Guido**, 2004h:62028
Vestrup, E. M. *see* **Bhattacharya, Debasis et al.**, 2004f:62062
Viertl, Reinhard (*with* Hareter, Dietmar) Generalized Bayes' theorem for non-precise a-priori distribution. (English summary)
Wang, Jin Fang *see* **Small, Christopher G.**, 2004k:62012
Wang, Shun-li *see* **Xu, Yong[3] et al.**, 2004b:62015
Wang, Xue-Li[2] *see* **Geng, Zhi et al.**
Wasserman, Larry ★ All of statistics. **2004m:62003**
— *see also* **Genovese, Christopher**, (2004g:62009)
West, Mike *see* **Lopes, Hedibert Freitas** *and* **Dobra, Adrian et al.**
Wilkinson, Darren J. *see* **Garside, Linda M.**, (2004g:62009)
Wilson, Simon P. Modeling the reliability of hip replacements. (English summary)
Wiper, Michael P. *see* **Pettit, Lawrence I. et al.**, 2004a:90005
Woodroofe, Michael *see* **Zhang, Tonglin**, 2004d:62117
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Xu, Yong[3] (*with* Shi, Xiong Hui; Wang, Shun-li; Shi, Yi-min) Empirical Bayes estimation for truncation parameters using NA samples. (English and Chinese summaries) **2004b:62015**
Yang, Mark C. K. *see* **Pardalos, Panos M. et al.**, 2004d:62372
Yao, Guang *see* **Dobra, Adrian et al.**
Yatsenko, V. A. *see* **Pardalos, Panos M. et al.**, 2004d:62372
Yip, Paul S. F. *see* **Hayakawa, Yu et al.**
Yoo, Hee-Kyung (*with* Kim, Hea-Jung; Kim, Dae-Hwang) A Bayesian approach for ordering products of independent normal means. (English summary)
Young, Karen D. S. *see* **Pettit, Lawrence I. et al.**, 2004a:90005
Young, Virginia R. *see* **Rosenberg, Marjorie A.**
Yuan, Xiu Jiu (*with* Zhang, Wen Xiu) A tree approach to linear regression models with categorical independent variables. (Chinese. English and Chinese summaries) **2004k:62169**
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Zhang, Wen Xiu *see* **Yuan, Xiu Jiu**, 2004k:62169
Zhao, Qiang[1] *see* **Geng, Zhi et al.**
Zou, Tianli *see* **Evans, Michael John**, 2004k:62091

Items listed otherwise than by author

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62F25 Tolerance and confidence regions

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62F30 Inference under constraints

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62F35 Robustness and adaptive procedures

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62F40 Bootstrap, jackknife and other resampling methods

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62Gxx Nonparametric inference

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Cardot, Hervé (*with* Ferraty, Frédéric; Sarda, Pascal) Spline estimators for the functional linear model. (English summary) **2004e:62072**
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González-Manteiga, Wenceslao *see* **García-Soidán, Pilar H. et al.**, **2004j:62068**
Gørgens, Tue Semiparametric estimation of censored transformation models. (English summary) **2004d:62133**
Gospodinov, Nikolay Improved finite-sample inference in overidentified models with weak instruments. (English summary) (*see* **2004k:62018**)
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Grübel, Rudolf *see* **Buchmann, Boris**, **2004g:62070**
Guédon, Yann (*with* Cocozza-Thivent, Christiane) Nonparametric estimation of renewal processes from count data. (English and French summaries)
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Hall, Peter G. (*with* Müller, Hans-Georg) Order-preserving nonparametric regression, with applications to conditional distribution and quantile function estimation. (English summary) **2004h:62062**
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Hanif, Muhammad *see* **Shahbaz, Muhammad Qaiser et al.**
Hansen, Martin B. *see* **Wolpert, Robert L. et al.**, (**2004g:62009**)
Hanus, Robert Statistical error analysis of time delay measurement by using phase of cross-spectral density function. (English summary)
Härdle, Wolfgang *see* **Delecroix, Michel et al.**, **2004d:62130** *and* **Liang, Hua**, **2004k:62108**
He, Can Zhi *see* **Li, Fan Liang**, **2004a:62081**
He, Guozhong (*with* Müller, Hans-Georg; Wang, Jane-Ling) Methods of canonical analysis for functional data. (English summary)
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Heckman, Nancy E. *see* **Li, Xiaochun**, **2004i:62070**
Heiler, Siegfried *see* **Abberger, Klaus**, (**2004d:62007**)
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Höpfner, R. (*with* Hoffmann, Marc; Löcherbach, E.) Non-parametric estimation of the death rate in branching diffusions. (English summary) **2004k:62107**
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Hothorn, Torsten (*with* Hornik, Kurt) Exact nonparametric inference in R. (English summary) (*see* **2004a:62009**)
Hristache, Marian *see* **Delecroix, Michel et al.**, **2004d:62130**
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Huang, Meng Qiao *see* **Gong, Li Sha**
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Huggins, Richard M. *see* **Yang, Hsin-Chou**
Huh, Jib Nonparametric discontinuity point estimation in density or density derivatives. (English summary) **2004d:62136**
Hung, Ming-Chin *see* **Chang, Yi-Ping et al.**
Hürlimann, Werner A Gaussian exponential approximation to some compound Poisson distributions. (English summary) **2004d:62137**
Hurvich, Clifford M. *see* **Chen, Willa W.**, **2004i:62061**
Hutson, Alan D. Nonparametric estimation of normal ranges given one-way ANOVA random effects assumptions. (English summary) **2004g:62073**
Hyndman, Rob J. *see* **Hall, Peter G.**, **2004h:62063**
Iacus, Stefano Maria (*with* La Torre, Davide) Nonparametric estimation by iterated function systems and optimization problems. (English summary) **2004i:62066**
Ickstadt, Katja *see* **Wolpert, Robert L. et al.**, (**2004g:62009**)
Ikoma, Norikazu (*with* Higuchi, Tomoyuki; Maeda, Hiroshi[1]) Maneuvering target tracking by using particle filter method with model switching structure. (English summary) (*see* **2004a:62009**)
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Imoto, Seiya (*with* Konishi, Sadanori) Selection of smoothing parameters in B-spline nonparametric regression models using information criteria. (English summary) **2004m:62084**
Iovleff, Serge (*with* Perrin, Olivier) Estimating a nonstationary spatial structure using simulated annealing. (English summary)
Ip, Wai Cheung *see* **Yang, Ying[1] et al.**, **2004j:62079**
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Jamshidian, Mortaza *see* **Zhang, Ying[6]**
Jansen, Maarten Wavelet thresholding on non-equispaced data. (English summary) **2004f:62094**
Janssen, Arnold A nonparametric Cramér-Rao inequality for estimators of statistical functionals. (English summary) **2004e:62074**
Jeong, Jong-Hyeon (*with* Oakes, David) On the asymptotic relative efficiency of estimates from Cox's model. (English summary) **2004j:62071**
Jiang, Jiancheng *see* **Fan, Jianqing et al.**
Jiang, Tao[6] (*with* Owen, Art B.) Quasi-regression with shrinkage. (English summary) **2004e:62075**
Jiang, Xue Lei *see* **Zhou, Yong[2] et al.**, **2004k:62114**
Jing, Xiao Long (*with* Ma, Hong[1]) Wavelet transformation for nonparametric estimation of hidden Markov models. (Chinese. English and Chinese summaries) **2004d:62138**
Jones, Michael C. *see* **Signorini, D. F.** *and* **Yu, Ke Ming**
Joslin, Scott (*with* Sherman, Robert P.) An equivalence result for VC classes of sets. (English summary) **2004i:62068**
Jowaheer, Vandna *see* **Sutradhar, Brajendra C.**
Judge, George G. (*with* Mittelhammer, Ron C.) A semiparametric basis for combining estimation problems under quadratic loss. (English summary)
— *see also* **Mittelhammer, Ron C. et al.**, **2004d:62142**
Jung, Sin-Ho (*with* Ying, Zhiliang) Rank-based regression with repeated measurements data. (English summary)
Jurečková, Jana L_1-derivatives, score functions and tests. (English summary) **2004h:62064**
Kadılar, Cem (*with* Çıngı, Hülya) A study on the chain ratio-type estimator. (English summary)
— (*with* Çıngı, Hülya) Ratio estimators in simple random sampling. (English summary)
Karagrigoriou, Alex *see* **Christodoulou, Christodoulos**, (**2004h:00015**)
Kauermann, Göran (*with* Opsomer, J. D.) Generalized cross-validation for bandwidth selection of backfitting estimates in generalized additive models. (English summary)
Kawaguchi, Atsushi Estimatings the correlation dimension from chaotic dynamical systmes by U-statistics. (English summary)
Khan, Shakeeb *see* **Chen, Songnian**, **2004h:62058**
Khvatova, T. Yu. *see* **Shevlyakov, G. L. et al.**, **2004b:62098**
Kim, Inyoung (*with* Cohen, Noah D.; Carroll, Raymond J.) Semiparametric regression splines in matched case-control studies. (English and French summaries)
Kim, Mi-Ok *see* **He, Xuming**, (**2004a:62010**)
Kim, Woo-Chul *see* **Park, Cheol-Woo**, **2004m:62088**
Kim, Woocheol *see* **Tripathi, Gautam**, **2004k:62113**
Klaassen, Chris A. J. (*with* Lenstra, Andries J.) Vanishing Fisher information. (English summary) **2004j:62072**
Kochar, Subhash C. *see* **El Barmi, Hammou et al.**, **2004h:62059**
Koenker, Roger (*with* Mizera, Ivan) Penalized triograms: total variation regularization for bivariate smoothing. (English summary)
Kohler, Michael (*with* Krzyżak, Adam; Walk, Harro) Strong consistency of automatic kernel regression estimates. (English summary) **2004e:62076**
— *see also* **Györfi, László**, **2004d:62134**
Kondo, Masao *see* **Nomachi, Toshifumi et al.**, **2004b:62095**
Kong, Augustine (*with* McCullagh, Peter; Meng, Xiao-Li; Nicolae, D.; Tan, Zhiqiang[2]) A theory of statistical models for Monte Carlo integration. (English summary)
Konishi, Sadanori *see* **Imoto, Seiya**, **2004m:62084**
Korolev, V. Yu. *see* **Bening, Vladimir E.**, **2004f:62086**
Kosinski, Andrzej S. *see* **Flanders, W. Dana et al.**, **2004d:62132**
Kotliková, Michala *see* **Vávra, František et al.**
Kozek, Andrzej S. (*with* Yin, Jiying) On Gauss quadrature and partial cross validation. (English summary) **2004m:62085**
Krzyżak, Adam *see* **Kohler, Michael et al.**, **2004e:62076**
Kwan, P. Y. K. *see* **Yang, Ying[1] et al.**, **2004j:62079**
Kwan, Y. K. *see* **Yang, Ying[1] et al.**, **2004j:62079**

Lababidi, Samir A nonparametric estimation problem from indirect observations. (English summary) **2004i:62069**
Lai, Tze Leung (*with* Shih, Mei-Chiung) Nonparametric estimation in nonlinear mixed effects models. (English summary) **2004b:62093**
Lang, Stefan[2] (*with* Adebayo, Samson B.; Fahrmeir, Ludwig) Bayesian semiparametric seemingly unrelated regression. (English summary) (*see* **2004a:62009**)
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— (*with* Brezger, Andreas) Bayesian P-splines. (English summary)
— *see also* **Fahrmeir, Ludwig et al.**
Langer, Frank *see* **Munzel, Ullrich**
La Torre, Davide *see* **Iacus, Stefano Maria**, **2004i:62066**
Lavine, Michael *see* **Paddock, Susan M. et al.**, **2004d:62143**
(Leclerc, Joséphine) *see* **Errata: "Rate of almost sure convergence of the Chernoff and Venter estimators of the mode"**, **2004b:62102**
Lee, Jae Won[3] (*with* Shevlyakov, G. L.; Vil′chevskiĭ, N. O.) Estimation of probability characteristics by generalized Bernstein polynomials. (Russian summary) **2004h:62065**
Lee, Myoung-Jae Exclusion bias in sample-selection model estimators. (English summary) **2004d:62139**
Lee, Sokbae Efficient semiparametric estimation of a partially linear quantile regression model. (English summary) **2004a:62080**
Lemdani, Mohamed (*with* Ould-Saïd, Elias) $\mathscr{L}_1$-deficiency of the Kaplan-Meier estimator. (English summary) **2004d:62140**
Lenstra, Andries J. *see* **Klaassen, Chris A. J.**, **2004j:62072**
Leporini, D. *see* **Antoniadis, Anestis et al.**, **2004j:62064**
Lesaffre, Emmanuel *see* **Bogaerts, Kris**
Leung, Denis H. Y. *see* **Chen, Song Xi et al.**, **2004k:62104**
Levit, Boris *see* **Artiles Martínez, L. M.**, **2004e:62070** *and* **Belitser, Eduard**, **2004k:62099**
Li, Fan Liang (*with* He, Can Zhi) A two-stage estimator in the semiparametric errors-in-variance model. (Chinese. English and Chinese summaries) **2004a:62081**
Li, Lei[2] Blind inversion needs distribution (BIND): general notion and case studies. (English summary) (*see* **2004d:62008**)
Li, Linxiong *see* **From, Steven G.**
Li, Qi[1] *see* **Fan, Yanqin**, **2004j:62067** *and* **Racine, Jeffrey S.**, **2004m:62091**
Li, Xiaochun (*with* Heckman, Nancy E.) Local linear extrapolation. (English summary) **2004i:62070**
Liang, Han Ying *see* **Chen, Zhi Jing et al.**, **2004i:62062**
Liang, Hua (*with* Härdle, Wolfgang) Partial linear models with heteroscedastic variances. (English summary) **2004k:62108**
— *see also* **Zhou, Yong**[2], **2004d:62146**
Liang, Zhi Bin More discussion on the ratio method of estimation and the simple method of estimation in the partial estimation. (Chinese. English and Chinese summaries)
Liao, Qiming *see* **Sun, Jianguo et al.**
Liebscher, Eckhard Convergence of the Gasser-Müller estimator under φ-mixing condition. (English summary) **2004d:62141**
Lin, Zheng Yan Asymptotic normality of kernel estimates of a density function under association dependence. (English summary) **2004c:62091**
Linton, Oliver B. (*with* Nielsen, Jens Perch; van de Geer, Sara) Estimating multiplicative and additive hazard functions by kernel methods. (English summary) **2004h:62066**
— (*with* Perron, Benoit) The shape of the risk premium: evidence from a semiparametric generalized autoregressive conditional heteroscedasticity model. (English summary)
— *see also* **Chen, Xiaohong**[1] **et al.**, **2004k:62105**
Liu, Anna *see* **Zhang, Jian**[4], **2004e:62080**
Liu, Ya-mei *see* **Niu, Si-li**, **2004b:62094**
Löcherbach, E. *see* **Höpfner, R. et al.**, **2004k:62107**
Lopuhaä, H. P. *see* **Groeneboom, P. et al.**, **2004i:62065**
Lovaglio, Pietro Giorgio Estimating latent variables from mixed manifest variables. (Italian. English and Italian summaries)
Low, Mark G. *see* **Cai, T. Tony**, **2004f:62088**
Ma, Hong[1] *see* **Jing, Xiao Long**, **2004d:62138**
MacEachern, Steven N. *see* **De Iorio, Maria et al.**
Maeda, Hiroshi[1] *see* **Ikoma, Norikazu et al.**, **(2004a:62009)**
Maiboroda, Rostislav E. Consistency of the weighted empirical distribution function based on the observations from mixtures with varying concentrations. (English summary) **2004j:62073**
— A least squares estimator for the parameter of concentrations of varying mixtures. I. Consistency. (Ukrainian. Ukrainian summary) **2004e:62077**
Maiti, Tapabrata *see* **Sinha, Debajyoti**
Mammen, Enno (*with* Nielsen, Jens Perch) Generalised structured models. (English summary) **2004j:62074**
Mangalam, Vasudevan *see* **Jammalamadaka, Sreenivasa Rao**, **2004b:62092**
Mao, Wenxin (*with* Zhao, Linda H.) Free-knot polynomial splines with confidence intervals. (English summary)
Marcheselli, Marzia Asymptotic results in jackknifing nonsmooth functions of the sample mean vector. (English summary) **2004k:62109**
Martins, M. João (*with* Gomes, M. Ivette; Neves, M. Manuela) Averages of Hill estimators. (English summary)
Mašková, Hana *see* **Vávra, František et al.**
Matias, Catherine Semiparametric deconvolution with unknown noise variance. (English summary) **2004f:62095**
Matzkin, Rosa L. Nonparametric estimation of nonadditive random functions. (English summary) **2004g:62074**
Maxim, Voichiţa Denoising signals observed on a random design. (English summary) **2004m:62086**
McCullagh, Peter *see* **Kong, Augustine et al.**
Meng, Xiao-Li *see* **Kong, Augustine et al.**
Mikhailishin, V. Yu. *see* **Yavorskiĭ, I. N. et al.**, **2004i:62075**
Mittelhammer, Ron C. (*with* Judge, George G.; van Akkeren, Marco; Cardell, N. Scott) Coordinate-based empirical likelihood-like estimation in ill-conditioned inverse problems. (English summary) **2004d:62142**
— *see also* **Judge, George G.**
Mizera, Ivan *see* **Koenker, Roger**
Moreira Freitas, Ana Cristina *see* **Brito, Margarida**, **2004k:62100**
Moretti, Enrico *see* **Golan, Amos et al.**
Mugdadi, Abdel-Razzaq (*with* Munthali, Emmie) Relative efficiency in kernel estimation of the distribution function. (English summary)
Mukerjee, Hari *see* **El Barmi, Hammou et al.**, **2004h:62059**
Mukherjee, Sayan (*with* Rifkin, Ryan; Poggio, Tomaso) Regression and classification with regularization. (*see* **2004d:62006**)
Müller, Hans-Georg *see* **Hall, Peter G.**, **2004h:62062**; **Chiou, Jeng-Min et al.**, **2004k:62106** *and* **He, Guozhong et al.**
Müller, Peter[2] *see* **Quintana, Fernando A.** *and* **De Iorio, Maria et al.**
Müller, Ursula U. (*with* Schick, Anton; Wefelmeyer, Wolfgang) Plug-in estimators in semiparametric stochastic process models. (English summary) **2004m:62087**
— (*with* Schick, Anton; Wefelmeyer, Wolfgang) Estimating linear functionals of the error distribution in nonparametric regression. (English summary) **2004i:62071**
Munthali, Emmie *see* **Mugdadi, Abdel-Razzaq**
Munzel, Ullrich (*with* Langer, Frank) A global view on parametric and nonparametric approaches to the analysis of ordered categorical data. (English summary)
Nadaraya, È. A. *see* **Absava, R. M. et al.**
Nadaraya, L. È. *see* **Absava, R. M. et al.**
Nardecchia, Annamaria *see* **Gastaldi, Massimo**
Neelon, Brian (*with* Dunson, David B.) Bayesian isotonic regression and trend analysis. (English and French summaries)
Neumeyer, Natalie (*with* Dette, Holger) Nonparametric comparison of regression curves: an empirical process approach. (English summary) **2004g:62075**
Neves, M. Manuela *see* **Martins, M. João et al.**
Nguyen, Thong H. *see* **Bandi, Federico M.**, **2004g:62068**
Nicolae, D. *see* **Kong, Augustine et al.**
Nicolau, João Bias reduction in nonparametric diffusion coefficient estimation. (English summary) **2004g:62076**
Nielsen, Jens Perch *see* **Linton, Oliver B. et al.**, **2004h:62066** *and* **Mammen, Enno**, **2004j:62074**
Nishiyama, Yoshihiko Minimum normal approximation error bandwidth selection for averaged derivatives. (English summary)
Niu, Si-li (*with* Liu, Ya-mei) Consistency estimate for semiparametric regression model with negatively associated error's structure. (English and Chinese summaries) **2004b:62094**
Nomachi, Toshifumi (*with* Kondo, Masao; Yamato, Hajime) Higher order efficiency of linear combinations of U-statistics as estimators of estimable parameters. (English summary) **2004b:62095**
Nový, Pavel *see* **Vávra, František et al.**
Oakes, David *see* **Jeong, Jong-Hyeon**, **2004j:62071**
Oliveira, Orlando *see* **Gomes, M. Ivette**
Oliveira, Paulo Eduardo *see* **Azevedo, Cecília**, **2004d:62127**
Opsomer, J. D. *see* **Kauermann, Göran**
Orbe, Susan (*with* Ferreira García, Eva; Rodríguez-Póo, Juan) An algorithm to estimate time varying parameter SURE models under different type of restrictions. (*see* **2004a:62009**)
O'Reilly, F. J. *see* **Gracia-Medrano, L.**
Ould-Saïd, Elias *see* **Lemdani, Mohamed**, **2004d:62140**
Owen, Art B. *see* **Jiang, Tao**[6], **2004e:62075**
Paddock, Susan M. (*with* Ruggeri, Fabrizio; Lavine, Michael; West, Mike) Randomized Polya tree models for nonparametric Bayesian inference. (English summary) **2004d:62143**
Park, Cheol-Woo (*with* Kim, Woo-Chul) Estimation of a regression function with a sharp change point using boundary wavelets. (English summary) **2004m:62088**
Park, Dongryeon *see* **Park, Sangun**, **2004g:62077**
Park, Jinho Optimal global rate of convergence in nonparametric regression with left-truncated and right-censored data. (English summary) **2004m:62089**
Park, Sangun (*with* Park, Dongryeon) Correcting moments for goodness of fit tests based on two entropy estimates. (English summary) **2004g:62077**
Passaquindici, M. (*with* Barbieri, Gianna) On the validity of rational interpolation. (Italian. English and Italian summaries)
Pastorello, Sergio (*with* Patilea, Valentin; Renault, Eric) Iterative and recursive estimation in structural nonadaptive models. (English summary) **2004h:62067**
Patilea, Valentin *see* **Pastorello, Sergio et al.**, **2004h:62067**
Peng, Liang (*with* Zhou, Xiao-Hua) Local linear smoothing of receiver operating characteristic (ROC) curves. (English summary) **2004m:62090**
Pérez, C. Iglesias Strong representation of a conditional quantile function estimator with truncated and censored data. (English summary) **2004i:62072**
Perloff, Jeffrey M. *see* **Golan, Amos et al.**
Perrin, Olivier *see* **Iovleff, Serge**
Perron, Benoit *see* **Linton, Oliver B.**
Pesquet, J.-C. *see* **Antoniadis, Anestis et al.**, **2004j:62064**
Peterson, Derick R. (*with* Zhao, Hongwei; Eapen, Sara) Using local correlation in kernel-based smoothers for dependent data. (English and French summaries)
Pfanzagl, J. Asymptotic bounds for estimators without limit distribution. (English summary) **2004g:62078**
— An alternative approach to asymptotic optimality. (English summary) **2004h:62068**
Pintér, Márta *see* **Antos, András**
Poggio, Tomaso *see* **Mukherjee, Sayan et al.**, **(2004d:62006)**
Politis, Konstadinos Semiparametric estimation for non-ruin probabilities. (English summary) **2004b:62096**
Pötzelberger, Klaus Estimating the dimension of factors of diffusion processes. (English summary) **2004h:62069**
Prakasa Rao, B. L. S. Statistical inference for stochastic partial differential equations. (English summary) **2004g:62079**
Puertas, Sergio Martínez *see* **Singh, Housila Prasad et al.**
Puri, Madan L. *see* **Brunner, Edgar**, **2004k:62101**

Qin, Jing[1] (*with* Zhang, Biao[2]) Using logistic regression procedures for estimating receiver operating characteristic curves. (English summary) **2004f:62096**
— *see also* **Chen, Song Xi et al., 2004k:62104**
Qin, Yong-song *see* **Chen, Song Xi, 2004k:62103**
Qiu, Peihua A jump-preserving curve fitting procedure based on local piecewise-linear kernel estimation. (English summary) **2004k:62110**
Quintana, Fernando A. (*with* Müller, Peter[2]) Nonparametric Bayesian assessment of the order of dependence for binary sequences. (English summary)
Racine, Jeffrey S. (*with* Li, Qi[1]) Nonparametric estimation of regression functions with both categorical and continuous data. (English summary) **2004m:62091**
Rayner, J. C. W. *see* **Brockhoff, P. B. et al., 2004m:62081**
Ren, Yao Feng *see* **Chen, Zhi Jing et al., 2004i:62062**
Renault, Eric *see* **Pastorello, Sergio et al., 2004h:62067**
Resnick, Sidney I. (*with* Samorodnitsky, Gennady; Gilbert, Anna C.; Willinger, Walter) Wavelet analysis of conservative cascades. (English summary) **2004c:62092**
Ridder, Geert *see* **Hirano, Keisuke et al., 2004e:62073**
Rifkin, Ryan *see* **Mukherjee, Sayan et al., (2004d:62006)**
Rodríguez-Póo, Juan *see* **Orbe, Susan et al., (2004a:62009)**
Rojo, Javier (*with* El Barmi, Hammou) Estimation of distribution functions under second order stochastic dominance. (English summary) **2004f:62097**
Romanazzi, Mario Perturbation properties of depth regions. (English summary) **2004e:62078**
Rosner, Gary L. *see* **De Iorio, Maria et al.**
Roussas, George G. Fixed design regression under association. (English summary) **2004g:62080**
Ruggeri, Fabrizio *see* **Paddock, Susan M. et al., 2004d:62143**
Ruppert, David *see* **Staudenmayer, John**
Rüschendorf, Ludger *see* **Döhler, Sebastian, 2004f:62091** *and* **2004i:62063**
Sabapathi, Durai (*with* Thavaneswaran, A.) Nonparametric estimation with censored observations. (English summary) **2004k:62111**
Saitoh, Saburou New type approximation error and convergence rate estimates in statistical learning theory. (English summary) **2004b:62097**
Samaniego, Francisco J. *see* **El Barmi, Hammou et al., 2004h:62059**
Samawi, Hani M. (*with* Al-Saleh, Mohammad Fraiwan) On bivariate ranked set sampling for distribution and quantile estimation and quantile interval estimation using ratio estimator. (English summary)
Samiuddin, Mohammad *see* **Shahbaz, Muhammad Qaiser et al.**
Samorodnitsky, Gennady *see* **Resnick, Sidney I. et al., 2004c:62092**
Sanusi, Wahidah (*with* Budiantara, I Nyoman) The Reinsch spline estimator and its application. (Indonesian. English summary)
Saracco, Jérôme *see* **Gannoun, Ali et al., 2004g:62071**
Sarda, Pascal *see* **Cardot, Hervé et al., 2004e:62072**
Sardy, Sylvain (*with* Tseng, Paul) On the statistical analysis of smoothing by maximizing dirty Markov random field posterior distributions. (English summary)
— (*with* Antoniadis, Anestis; Tseng, Paul) Automatic smoothing with wavelets for a wide class of distributions. (English summary)
Sasieni, Peter D. *see* **Winnett, Angela, 2004d:62144**
Satten, Glen A. *see* **Datta, Somnath et al., (2004a:62007)**
Scharfstein, Daniel O. (*with* Irizarry, Rafael A.) Generalized additive selection models for the analysis of studies with potentially nonignorable missing outcome data. (English and French summaries)
Schaubel, Douglas E. *see* **Cai, Jianwen**
Schick, Anton *see* **Müller, Ursula U. et al., 2004i:62071** *and* **2004m:62087**
Schimek, Michael G. Unbiased partial spline fitting under autoregressive errors. (English summary) (*see* **2004a:62009**)
Scholz, T. *see* **Tutz, G.**
Shabbir, J. (*with* Yaab, M. Z.) Improvement over transformed auxiliary variable in estimating the finite population mean. (English summary)
Shahbaz, Muhammad Qaiser (*with* Hanif, Muhammad; Samiuddin, Mohammad) On some estimators in unequal probability sampling. (English summary)
Shephard, Neil *see* **Barndorff-Nielsen, Ole E., (2004a:62014)**
Sherman, Robert P. *see* **Joslin, Scott, 2004i:62068**
Shevlyakov, G. L. (*with* Vil′chevskiĭ, N. O.; Khvatova, T. Yu.) On a nonparametric robust method of detection of signals. **2004b:62098**
— *see also* **Lee, Jae Won**[3] **et al., 2004h:62065**
Shih, Mei-Chiung *see* **Lai, Tze Leung, 2004b:62093**
Sibbertsen, Philipp *see* **Beran, Jan et al., 2004g:62069**
Signorini, D. F. (*with* Jones, Michael C.) Kernel estimators for univariate binary regression. (English summary)
Singh, Housila Prasad (*with* Singh, Sarjinder; Puertas, Sergio Martínez) Ratio type estimators for the median of finite populations. (English summary)
Singh, Jagbir[1] *see* **Thavaneswaran, A., 2004m:62093**
Singh, Sarjinder *see* **Singh, Housila Prasad et al.**
Sinha, Debajyoti (*with* Maiti, Tapabrata) A Bayesian approach for the analysis of panel-count data with dependent termination. (English and French summaries)
Slud, E. V. (*with* Vonta, Filia) Consistency of the NPML estimator in the right-censored transformation model. (English summary) **2004j:62075**
Song, Shuguang Estimation with univariate "mixed case" interval censored data. (English summary) **2004k:62112**
Staudenmayer, John (*with* Ruppert, David) Local polynomial regression and simulation-extrapolation. (English summary)
Steiner, Winfried J. *see* **Lang, Stefan**[2] **et al.**
Stokes, S. Lynne Using auxiliary information for improving estimation in the number of species problem. (English summary)
Subramanian, Sundarraman Semiparametric transformation models and the missing information principle. (English summary) **2004b:62099**
Sun, Hai Yan *see* **Hu, Hong Chang, 2004j:62070**
Sun, Jianguo (*with* Liao, Qiming; Chiu, Jing-Re) Simple and direct nonparametric estimation of a survival function in the presence of reporting lags. (English summary)
Sun, Liu-quan Fixed design nonparametric regression with truncated and censored data. (English summary) **2004i:62073**
Sun, Xiaoqian (*with* You, Jin-hong) Iterative weighted partial spline least squares estimation in semiparametric modeling of longitudinal data. (English summary) **2004m:62092**
Sutradhar, Brajendra C. (*with* Jowaheer, Vandna) On familial longitudinal Poisson mixed models with gamma random effects. (English summary)
— (*with* Farrell, Patrick J.) Analyzing multivariate longitudinal binary data: a generalized estimating equations approach. (English and French summaries)
Szkutnik, Zbigniew Doubly smoothed EM algorithm for statistical inverse problems. (English summary) **2004a:62082**
Tan, Zhiqiang[2] *see* **Kong, Augustine et al.**
Tanaka, Yutaka[1] *see* **Yamanishi, Yoshihiro**
Tenreiro, Carlos On the asymptotic behaviour of the ISE for automatic kernel distribution estimators. (English summary) **2004j:62076**
— On the asymptotic normality of multistage integrated density derivatives kernel estimators. (English summary) **2004h:62070**
Thavaneswaran, A. (*with* Singh, Jagbir[1]) Generalized smoothed estimating functions with censored observations. (English summary) **2004m:62093**
— *see also* **Sabapathi, Durai, 2004k:62111**
Tian, Lu[2] *see* **Goldwasser, M. A. et al.**
Tian, Yu Bin *see* **Fang, Yong Fei, 2004c:62089**
Trenkel, Verena M. Density estimator for strip transects when animals show directional movement and observation speed is slow. (English summary)
Tripathi, Gautam (*with* Kim, Woocheol) Nonparametric estimation of homogeneous functions. (English summary) **2004k:62113**
Tsai, Tzong-Ru (*with* Wu, Shuo-Jye) Fuzzy-weighted bootstrap estimation in semi-parametric model. (English summary)
Tseng, Paul *see* **Sardy, Sylvain et al.**
Tsodikov, A. Semiparametric models: a generalized self-consistency approach. (English summary) **2004h:62071**
Tsukerman, E. V. Detection and estimation of the effect of innovations. (Russian) (*see* **2004c:00010**)
Tutz, G. (*with* Scholz, T.) Semiparametric modelling of multicategorical data. (English summary)
Tyler, David E. High breakdown point multivariate M-estimation. (English summary) **2004i:62074**
Ullah, Aman Nonparametric kernel methods of estimation and hypothesis testing. (*see* **2004j:62006**)
Utzet, Frederic *see* **Buldygin, Valerii V. et al., 2004k:62102**
Vandal, Alain C. *see* **Gentleman, Robert, 2004b:62090**
Van Keilegom, Ingrid *see* **Hall, Peter G., 2004d:62135** *and* **Chen, Xiaohong**[1] **et al., 2004k:62105**
Vargas-Guzmán, J. Antonio (*with* Dimitrakopoulos, Roussos) Successive nonparametric estimation of conditional distributions. (English summary) **2004h:62072**
Vasil′chenko, S. G. An algorithm for detecting the change points of a random sequence. (Russian. English and Russian summaries) **2004c:62093**
Vávra, František (*with* Nový, Pavel; Mašková, Hana; Kotlíková, Michala; Zmrhal, David) Nonparametric estimations of non-negative random variables distributions. (English summary)
Viceira, Luis M. *see* **Chacko, George**
Vidakovic, Brani *see* **De Canditiis, Daniela**
Vieu, Philippe *see* **Estévez-Pérez, Graciela, 2004i:62064**
Vilar-Fernández, J. A. *see* **Francisco-Fernandez, Mario et al., 2004m:62083**
Vilar Fernández, Juan M. *see* **Francisco-Fernandez, Mario et al., 2004m:62083**
Vil′chevskiĭ, N. O. *see* **Shevlyakov, G. L. et al., 2004b:62098** *and* **Lee, Jae Won**[3] **et al., 2004h:62065**
Vonta, Filia *see* **Slud, E. V., 2004j:62075**
Walk, Harro *see* **Kohler, Michael et al., 2004e:62076**
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Wang, Jane-Ling *see* **Chiou, Jeng-Min et al., 2004k:62106** *and* **He, Guozhong et al.**
Wang, Naisyin Marginal nonparametric kernel regression accounting for within-subject correlation. (English summary) **2004b:62100**
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Wefelmeyer, Wolfgang *see* **Müller, Ursula U. et al., 2004i:62071** *and* **2004m:62087**
Wei, L. J. *see* **Goldwasser, M. A. et al.**
Wei, Xin Yu *see* **Zhao, Xuan Min, 2004m:62094**
Wells, Martin T. *see* **Wu, Samuel S., 2004h:62074**
Werker, Bas J. M. *see* **Drost, Feike C.** *and* **Genest, Christian**
West, Mike *see* **Paddock, Susan M. et al., 2004d:62143**
de Wet, Tertius *see* **Beirlant, Jan et al.**
Willinger, Walter *see* **Resnick, Sidney I. et al., 2004c:62092**
Winnett, Angela (*with* Sasieni, Peter D.) Iterated residuals and time-varying covariate effects in Cox regression. (English summary) **2004d:62144**
de Wolf, P. P. *see* **Groeneboom, P. et al., 2004i:62065**
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— *see also* **Chen, Jiahua, 2004j:62066**
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Wu, Yao Hua[1] *see* **Bai, Zhi Dong et al., 2004d:62128**
Wu, Yi-Fang *see* **Chang, Yi-Ping et al.**
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Wywiał, Janusz Conditional estimation of average on the basis of weighting data. (English summary)
Xu, Bing[1] Estimation of partial linear error-in-variables models for negatively associated dependence data. (English summary) **2004j:62078**
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Yang, Shan Chao Uniformly asymptotic normality of the regression weighted estimator for negatively associated samples. (English summary) **2004a:62083**
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Ye, A Zhong Local linear two-stage least squares estimation with variable bandwidth for nonparametric simultaneous equation models in econometrics. (Chinese. English and Chinese summaries)
Yin, Jiying *see* **Kozek, Andrzej S., 2004m:62085**
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Yu, Qiqing (*with* Wong, George Y. C.) Semi-parametric MLE in simple linear regression analysis with interval-censored data. (English summary) **2004b:62101**
Zabolotniĭ, O. V. *see* **Yavorskiĭ, I. N. et al., 2004i:62075**
Zayats, Vladimir *see* **Buldygin, Valerii V. et al., 2004k:62102**
Zerom, Dawit *see* **De Gooijer, Jan G., 2004a:62079**
Zhang, Biao[2] *see* **Qin, Jing[1], 2004f:62096**
Zhang, Chunming M. *see* **Fan, Jianqing et al., 2004a:62078**
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Zhang, Jian[4] (*with* Liu, Anna) Local polynomial fitting based on empirical likelihood. (English summary) **2004e:62080**
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Zhou, Zhenwei *see* **Fan, Jianqing et al.**
Ziegler, Klaus On the asymptotic normality of kernel regression estimators of the mode in the nonparametric random design model. (English summary) **2004c:62096**
Zieliński, Ryszard Constructing median-unbiased estimators in one-parameter families of distributions via stochastic ordering. (English summary) **2004k:62115**
Zitikis, Ričardas Asymptotic estimation of the E-Gini index. (English summary) **2004e:62081**
Zmrhal, David *see* **Vávra, František et al.**

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"Nonparametric estimation of renewal processes from count data" Correction: "Nonparametric estimation of renewal processes from count data" [Canad. J. Statist. **31** (2003), no. 2, 191–223] by Y. Guédon and C. Cocozza-Thivent.

"Rate of almost sure convergence of the Chernoff and Venter estimators of the mode" Erratum: "Rate of almost sure convergence of the Chernoff and Venter estimators of the mode" [Ann. I.S.U.P. **45** (2001), no. 1, 93–104; MR 2003e:62070] by J. Leclerc. (French) **2004b:62102**

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Abraham, Bovas *see* **Ramanathan, T. V. et al., 2004e:62184**
Abu-Dayyeh, Walid A. *see* **Muttlak, Hassen A.**
Abusev, R. A. Statistical estimation in the space of a certain sufficient statistic of the extremal value distribution, and group classification. **2004a:62103**
Aghili, Arman On minimum variance unbiased estimators of exponential families. (English summary)
Ahmad, Ibrahim A. A new approach to hazard analysis. (English summary) **2004c:62197**
Akritas, Michael G. *see* **Du, Yunling et al., 2004d:62248**
Alonso, Andrés M. (*with* Cuevas, Antonio) On smoothed bootstrap for density functionals. (English summary) **2004i:62091**
Al-Saleh, Mohammad Fraiwan On the totality of ranked set sampling. (English summary) **2004h:62017**
Aneiros-Pérez, Germán Plug-in bandwidth choice for estimation of nonparametric part in partial linear regression models with strong mixing errors. (English summary) **2004m:62100**
Antos, András On nonparametric estimates of the expectation. (English summary) **2004b:60101**
Ashih, Heidi W. *see* **Parmigiani, Giovanni et al.**
Atieg, A. (*with* Watson, G. A.) A class of methods for fitting a curve or surface to data by minimizing the sum of squares of orthogonal distances. (English summary) **2004g:65010**
Bagdonavičius, Vilijandas (*with* Bikelis, Algimantas; Kazakevičius, Vytautas; Nikulin, Mikhail S.) Estimation from simultaneous degradation and failure time data. (English summary) **2004j:62206**
Balasubramanian, Raji (*with* Lagakos, Stephen W.) Analyzing time-to-event data in a clinical trial when an unknown proportion of subjects has experienced the event at entry. (English and French summaries)
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Belitser, Eduard (*with* Ghosal, Subhashis) Adaptive Bayesian inference on the mean of an infinite-dimensional normal distribution. (English summary) **2004e:62098**
Bellamy, Scarlett *see* **Li, Yi[8] et al., 2004h:62180**
Bening, Vladimir E. (*with* Korolev, V. Yu.; Kudryavtsev, A. A.) On the computation of confidence intervals for the ruin probability in generalized risk. (Russian. Russian summary) **2004c:91062**
Berlinet, Alain *see* **Abdous, Belkacem et al., 2004m:62095**
Bickel, Peter J. (*with* Sakov, Anat) Extrapolation and the bootstrap. (English summary) **2004d:62168**
Bikelis, Algimantas *see* **Bagdonavičius, Vilijandas et al., 2004j:62206**
Bingham, N. H. (*with* Kiesel, Rüdiger; Schmidt, Rafael) A semi-parametric approach to risk management. (English summary) **2004j:91117**
Bittanti, Sergio *see* **Savaresi, Sergio M. et al., 2004e:93093**
Bomze, Immanuel M. On the structure of undominated statistical experiments: sufficiency, invariance, and optimality in unbiased estimation. (English summary)
Bordes, Laurent Non-parametric estimation under progressive censoring. (English summary) **2004h:62174**
Bortz, D. M. *see* **Banks, H. T. et al., (2004k:92003)**
Bosq, Denis Estimation of the autocorrelation operator and prediction for infinite-dimensional autoregressive processes. (English summary) **2004b:62191**
Bowden, Roger J. The zero-capital approach to portfolio enhancement and overlay management. (English summary)
Brattey, J. *see* **Cadigan, N. G.**
Breslow, Norman E. (*with* McNeney, Brad; Wellner, Jon A.) Large sample theory for semiparametric regression models with two-phase, outcome dependent sampling. (English summary) **2004m:62103**
Brill, P. H. *see* **Huang, Mei-Ling[1], 2004d:62164**
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Brown, Morton B. *see* **Wang, Yuedong et al.**
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Cai, Zongwu A two-stage approach to additive time series models. (English summary) **2004j:62169**
— Nonparametric estimation equations for time series data. (English summary) **2004g:62156**
— (*with* Ould-Saïd, Elias) Local M-estimator for nonparametric time series. (English summary) **2004k:62195**
Cardot, Hervé (*with* Faivre, Robert; Goulard, Michel) Functional approaches for predicting land use with the temporal evolution of coarse resolution remote sensing data. (English summary)
Carriere, Jacques F. A Gaussian process of yield rates calibrated with strips. (English summary)
Chandramouli, R. (*with* Ramachandran, K. M.) Wavelets for statistical estimation and detection. (English summary) **2004g:65189**
Chaudhuri, Arijit (*with* Pal, Sanghamitra) Estimating proportions from unequal probability samples using randomized responses by Warner's and other devices. (English and Hindi summaries)
Chen, Di[1] *see* **Lu, Jye-Chyi et al., 2004b:62212**
Chen, Kani Linear minimax efficiency of local polynomial regression smoothers. (English summary) **2004c:62099**
Chen, Ling[1] A conservative, nonparametric estimator for the 5th percentile of the species sensitivity distributions. (English summary) **2004m:62233**
Chen, Min[4] *see* **Ip, Wai Cheung et al., 2004k:62201**
Chen, Pai-Lien (*with* Tien, Hsiao-Chuan) Semi-Markov models for multistate data analysis with periodic observations. (English summary)
Chen, Sy-Mien (*with* Hsu, Yu-Sheng) Asymptotic analysis of estimators for $C_{Np}(u, v)$

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Commenges, Daniel (*with* Joly, Pierre) Multi-state model for dementia, institutionalization, and death. (English summary)

Coull, B. A. *see* **Wager, C. G. et al.**

Crampton, A. *see* **Lei, Dongdong et al.**, (**2004j:65005**)

Croux, Christophe *see* **Ollila, Esa et al.**, **2004m:62134**

Csörgő, Sándor (*with* Viharos, L.) Joint asymptotic normality of tail-index estimators. (English summary) **2004d:60054**

Cuevas, Antonio *see* **Alonso, Andrés M.**, **2004i:62091**

Cui, Heng-jian *see* **Zhu, Li-Xing**, **2004k:62164**

Davidian, Marie *see* **Leon, Selene et al.**

(Decamps, Marc) *see* **Gerber, Hans U.**

Devroye, Luc (*with* Györfi, László) Distribution and density estimation. **2004d:62148**

Dharmadhikari, A. D. *see* **Ramanathan, T. V. et al.**, **2004e:62184**

Diebolt, Jean (*with* Girard, Stéphane) A note on the asymptotic normality of the ET method for extreme quantile estimation. (English summary) **2004b:62128**

Dodd, Lori E. (*with* Pepe, Margaret Sullivan) Partial AUC estimation and regression. (English and French summaries)

Douglas, Jeffrey A. Asymptotic identifiability of nonparametric item response models. (English summary) **2004a:62040**

Du, Yunling (*with* Akritas, Michael G.; Van Keilegom, Ingrid) Nonparametric analysis of covariance for censored data. (English summary) **2004d:62248**

Dudoit, Sandrine *see* **Molinaro, Annette M. et al.**

Dukic, V. (*with* Gatsonis, C.) Meta-analysis of diagnostic test accuracy assessment studies with varying number of thresholds. (English and French summaries)

Duncan, Pamela W. *see* **Parmigiani, Giovanni et al.**

Ebrahimi, Nader (*with* Molefe, Daniel) Survival function estimation when lifetime and censoring time are dependent. (English summary) **2004f:62185**

El Bantli, Faouzi M-estimation in linear models under nonstandard conditions. (English summary) **2004k:62075**

Elliot, M. J. *see* **Skinner, Chris J.**, **2004c:62024**

Enăchescu, Cornelia (*with* Enăchescu, Denis) Estimation of $\Pr(Y < X)$ in case of the Luceno distribution. (English summary) **2004b:62217**

Enăchescu, Denis *see* **Enăchescu, Cornelia**, **2004b:62217**

Faivre, Robert *see* **Cardot, Hervé et al.**

Fan, Jianqing (*with* Gu, Juan) Semiparametric estimation of value at risk. (English summary)

Feng, Yuanhua Simultaneously modeling conditional heteroskedasticity and scale change. (English summary) **2004m:62190**

Fermanian, Jean-David Nonparametric estimation of competing risks models with covariates. (English summary) **2004d:62338**

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Flournoy, Nancy *see* **Sun, Jianguo et al.**, **2004m:62222**

Fraga Alves, M. I. (*with* Gomes, M. Ivette; de Haan, Laurens) A new class of semi-parametric estimators of the second order parameter. (English summary) **2004c:62118**

Franke, Jürgen (*with* Neumann, Michael H.; Stockis, Jean-Pierre) Bootstrapping nonparametric estimators of the volatility function. (English summary) **2004j:62087**

Gan, Nianci *see* **Lu, Jye-Chyi et al.**, **2004b:62212**

Gannoun, Ali (*with* Saracco, Jérôme) An asymptotic theory for SIR_α method. (English summary) **2004b:62129**

Gardes, Laurent Double-thresholded estimator of extreme value index. (English and French summaries) **2004f:62122**

Gatsonis, C. *see* **Dukic, V.**

Geddes, R. R. *see* **Vinod, H. D.**, **2004d:62374**

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Ghosal, Subhashis *see* **Belitser, Eduard**, **2004e:62098**

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Ghosh, Malay *see* **Sinha, Samiran et al.**

Ginovyan, M. S. Asymptotically efficient nonparametric estimation of nonlinear spectral functionals. (English summary) **2004k:60098**

Girard, Stéphane *see* **Diebolt, Jean**, **2004b:62128**

Goldstein, Larry Mark *see* **Zhang, Haimeng**, **2004b:62131**

Golubev, G. K. (*with* Levit, Boris) Sequential recovery of analytic periodic edges in binary image models. (English summary) **2004e:62122**

Gomes, M. Ivette (*with* de Haan, Laurens; Peng, Liang) Semi-parametric estimation of the second order parameter in statistics of extremes. (English summary) **2004g:62101**

— *see also* **Fraga Alves, M. I. et al.**, **2004c:62118**

González-Manteiga, Wenceslao *see* **Pérez, C. Iglesias**, **2004f:62184**

(Goovaerts, Marc J.) *see* **Gerber, Hans U.**

Gørgens, Tue Average derivatives for hazard functions. (English summary) **2004m:62212**

Goulard, Michel *see* **Cardot, Hervé et al.**

Greenwood, Priscilla E. (*with* Haydon, D. T.) Semiparametric inference for synchronization of population cycles. (*see* **2004c:62007**)

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Gu, Chong *see* **Kim, Young-Ju**

Gu, Juan *see* **Fan, Jianqing**

Guédon, Yann Estimating hidden semi-Markov chains from discrete sequences. (English summary)

Gulati, Sneh (*with* Padgett, William J.) ★ Parametric and nonparametric inference from record-breaking data. **2004a:62003**

Gürler, Ülkü Nonparametric bivariate estimation with randomly truncated observations.

Györfi, László *see* **Devroye, Luc**, **2004d:62148**

de Haan, Laurens *see* **Fraga Alves, M. I. et al.**, **2004c:62118** *and* **Gomes, M. Ivette et al.**, **2004g:62101**

Haines, Linda M. An approach to simple bargaining games and related problems. (English summary) **2004f:62023**

Hall, Peter G. (*with* Yin, Ji Ying) Nonparametric methods for deconvolving multiperiodic functions. (English summary)

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Hansen, Karsten T. (*with* Heckman, James J.; Mullen, Kathleen J.) The effect of schooling and ability on achievement test scores. (English summary)

Hanson, Timothy (*with* Johnson, Wesley O.) A Bayesian semiparametric AFT model for interval-censored data. (English summary)

Haupt, Harry (*with* Oberhofer, Walter; Reichsthaler, Thomas) A varying-coefficient approach to estimation and extrapolation of household size. (English summary)

Haydon, D. T. *see* **Greenwood, Priscilla E.**, (**2004c:62007**)

He, Shu-yuan *see* **Mei, Chang Lin et al.**

Heckman, James J. *see* **Hansen, Karsten T. et al.**

Hegland, Markus Additive sparse grid fitting. (English summary) (*see* **2004j:65005**)

Held, Leonhard Simultaneous posterior probability statements from Monte Carlo output. (English summary)

Helmers, Roelof (*with* Mangku, I. Wayan; Zitikis, Ričardas) Consistent estimation of the intensity function of a cyclic Poisson process. (English summary) **2004a:60095**

Hengartner, Nicolas W. *see* **Abdous, Belkacem et al.**, **2004m:62095**

Henriques, Carla (*with* Oliveira, Paulo Eduardo) Estimation of a two-dimensional distribution function under association. (English summary) **2004b:62130**

Ho, Tsung-Wu Cointegration, government spending and private consumption: evidence from Japan. (English summary)

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Horowitz, Joel L. (*with* Lee, Sokbae) Semiparametric estimation of a panel data proportional hazards model with fixed effects. (English summary) **2004m:62216**

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Howlett, Phil G. (*with* Pearce, Charles E. M.; Torokhtiĭ, A. P.) An optimal linear filter for random signals with realisations in a separable Hilbert space. (English summary) **2004e:94011**

Hsu, Yu-Sheng *see* **Chen, Sy-Mien**, **2004b:62216**

Huang, Jianhua Z. *see* **Stone, Charles J.**, **2004i:60114**

Huang, Mei-Ling[1] (*with* Brill, P. H.) A nonparametric regression method. (English summary) **2004d:62164**

Huang, Su-Yun *see* **Lu, Henry Horng-Shing et al.**, **2004g:62128**

Huang, Xiao Wei (*with* Song, Li Xin[1]; Liang, Yan Chun) Semiparametric credibility ratemaking using a piecewise linear prior. (English summary) **2004j:62212**

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Hunt, Daniel *see* **Rai, Shesh N. et al.**, (**2004k:62018**)

Ip, Wai Cheung (*with* Wong, Heung; Chen, Min[4]) Testing normality for linear $\mathrm{AR}(p)$ models. (English summary) **2004k:62201**

Ishwaran, Hemant (*with* James, Lancelot F.) Gibbs sampling methods for stick-breaking priors. (English summary) **2004d:62018**

Ismail, B. *see* **Jose, C. T.**

James, Lancelot F. *see* **Ishwaran, Hemant**, **2004d:62018**

Jasiak, Joann First-order autoregressive processes with heterogeneous persistence. (English summary) **2004d:62301**

Jeon, Yongho *see* **Lin, Yi**[5], **2004d:62224**

Johnson, Wesley O. *see* **Hanson, Timothy**

Joly, Pierre *see* **Commenges, Daniel**

Jones, Bruce L. Methods for the analysis of CCRC data. (English summary)

Jongbloed, Geurt (*with* Verbaken, Tonny) Modelling the process of incoming problem reports on released software products. (English summary)

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Kalamatianou, Aglaia G. (*with* McClean, Sally) The perpetual student: modeling duration of undergraduate studies based on lifetime-type educational data. (English summary)

Kashid, D. N. (*with* Kulkarni, S. R.) Subset selection in multiple linear regression with heavy tailed error distribution. (English summary)

Kauermann, Göran (*with* Opsomer, J. D.) Local likelihood estimation in generalized additive models. (English summary) **2004d:62166**

Kazakevičius, Vytautas *see* **Bagdonavičius, Vilijandas et al.**, **2004j:62206**

Ke, Chunlei *see* **Wang, Yuedong et al.**

Kiesel, Rüdiger *see* **Bingham, N. H. et al.**, **2004j:91117**

Kim, Young-Ju (*with* Gu, Chong) Smoothing spline Gaussian regression: more scalable computation via efficient approximation. (English summary)

Koch, Karsten (*with* Ohser, Joachim; Schladitz, Katja) Spectral theory for random closed sets and estimating the covariance via frequency space. (English summary) **2004m:60021**

Koenker, Roger *see* **Bassett, Gilbert W., Jr. et al.**, **2004f:62196**

Kordas, Gregory Credit scoring using binary quantile regression. (English summary) (*see* **2004d:62007**)

— *see also* **Bassett, Gilbert W., Jr. et al.**, **2004f:62196**

Korolev, V. Yu. *see* **Bening, Vladimir E. et al.**, **2004c:91062**

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Koul, Hira L. (*with* Ni, Pingping) Minimum distance regression model checking. (English

summary) **2004k:62124**

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Kudryavtsev, A. A. *see* **Bening, Vladimir E. et al., 2004c:91062**

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Kulkarni, S. R. *see* **Kashid, D. N.**

van der Laan, Mark J. *see* **Molinaro, Annette M. et al.**

Lachout, Petr *see* **Vogel, Silvia, 2004f:90095** *and* **2004g:90070**

Lagakos, Stephen W. *see* **Balasubramanian, Raji**

Lai, Sue Min *see* **Parmigiani, Giovanni et al.**

Laird, Glen *see* **Hollander, Myles et al., 2004h:62179**

Lange, N. *see* **Wager, C. G. et al.**

Lee, Sokbae *see* **Horowitz, Joel L., 2004m:62216**

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Liang, Hua *see* **Wu, Hulin, 2004k:62126**

Liang, Yan Chun *see* **Huang, Xiao Wei et al., 2004j:62212**

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(Lin, X. Sheldon) *see* **Gerber, Hans U.**

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Linder, Tamás Learning-theoretic methods in vector quantization. **2004f:68128**

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Mangku, I. Wayan *see* **Helmers, Roelof et al., 2004a:60095**

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Mason, John C. *see* **Lei, Dongdong et al., (2004j:65005)**

Matchar, David B. *see* **Parmigiani, Giovanni et al.**

McClean, Sally *see* **Kalamatianou, Aglaia G.**

McNeney, Brad *see* **Breslow, Norman E. et al., 2004m:62103**

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Mergel, Victor On some properties of Kozachenko-Leonenko estimates and maximum entropy principle in goodness of fit tests construction. (English summary) **2004a:62018**

Miyata, Satoshi (*with* Shen, Xiaotong) Adaptive free-knot splines. (English summary) **2004a:62088**

Molefe, Daniel *see* **Ebrahimi, Nader, 2004f:62185**

Molinaro, Annette M. (*with* Dudoit, Sandrine; van der Laan, Mark J.) Tree-based multivariate regression and density estimation with right-censored data. (English summary)

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Moodie, F. Zoe *see* **Prentice, Ross L. et al.**

Mudholkar, Govind S. *see* **Marchetti, Carol E. et al., (2004k:62018)**

Mukherjee, Bhramar *see* **Sinha, Samiran et al.**

Mullen, Kathleen J. *see* **Hansen, Karsten T. et al.**

Müller, Christine H. Robust estimators for estimating discontinuous functions. (English summary) **2004d:62181**

Müller, Ursula U. *see* **Greenwood, Priscilla E. et al.**

Muthukrishnan, S. Muthu (*with* Strauss, Martin Joel) Rangesum histograms. (English summary) (*see* **2004a:68002**)

Muttlak, Hassen A. (*with* Abu-Dayyeh, Walid A.) Weighted modified ranked set sampling methods. (English summary)

Navascués, M. Antonia (*with* Sebastián Guerrero, María Victoria) Some results of convergence of cubic spline fractal interpolation functions. (English summary) **2004h:41007**

Neumann, Michael H. *see* **Franke, Jürgen et al., 2004j:62087**

Ni, Pingping *see* **Koul, Hira L., 2004k:62124**

Nikulin, Mikhail S. *see* **Bagdonavičius, Vilijandas et al., 2004j:62206**

Norris, James L. *see* **Pledger, Shirley et al.**

Oakes, David On frailty models and copulas. (English summary) (*see* **2004k:62018**)

Ober, Carole *see* **McPeek, Mary Sara et al.**

Oberhofer, Walter *see* **Haupt, Harry et al.**

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Oh, Man-Suk *see* **Shin, Dong Wan, 2004e:62165**

Ohser, Joachim *see* **Koch, Karsten et al., 2004m:60021**

Ohtaki, Megu *see* **Yanagihara, Hirokazu**

Oja, Hannu *see* **Ollila, Esa et al., 2004m:62134**

Oliveira, Paulo Eduardo *see* **Henriques, Carla, 2004b:62130**

Ollila, Esa (*with* Oja, Hannu; Croux, Christophe) The affine equivariant sign covariance matrix: asymptotic behavior and efficiencies. (English summary) **2004m:62134**

Opsomer, J. D. *see* **Kauermann, Göran, 2004d:62166**

Österreicher, Ferdinand (*with* Vajda, Igor) A new class of metric divergences on probability spaces and its applicability in statistics. (English summary) **2004i:62014**

Ould-Saïd, Elias *see* **Cai, Zongwu, 2004k:62195**

Padgett, William J. *see* **Gulati, Sneh, 2004a:62003**

Pal, Sanghamitra *see* **Chaudhuri, Arijit**

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Pearce, Charles E. M. *see* **Howlett, Phil G. et al., 2004e:94011**

Pearn, Wen-Lea *see* **Lin, Guo Hua, 2004a:62192**

Peng, Liang *see* **Gomes, M. Ivette et al., 2004g:62101**

Pensky, Marianna *see* **Kotz, Samuel et al., 2004c:62002**

Pepe, Margaret Sullivan *see* **Dodd, Lori E.**

Pérez, C. Iglesias (*with* González-Manteiga, Wenceslao) Bootstrap for the conditional distribution function with truncated and censored data. (English summary) **2004f:62184**

Perron, François (*with* Sinha, Bimal K.) Estimation of variance based on a ranked set sample. (English summary) **2004m:62037**

Pflug, Georg Ch. Stochastic optimization and statistical inference. (English summary)

Pinter, Gabriella *see* **Banks, H. T. et al., (2004k:92003)**

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Pollock, Kenneth H. *see* **Pledger, Shirley et al.**

Potter, Laura *see* **Banks, H. T. et al., (2004k:92003)**

Pourahmadi, Mohsen *see* **Wu, Wei Biao, 2004j:62148**

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Prieto Martínez, Juan José Nonparametric estimate of the number of species in an ecosystem of unknown size via generalized jackknife estimators in finite populations. (Spanish. English and Spanish summaries) **2004h:62192**

Pushkarna, Narinder *see* **Saran, Jagdish, 2004e:62103**

Quashnock, J. M. *see* **Loh, J. M. et al.**

Rabe-Hesketh, Sophia *see* **Skrondal, Anders, 2004m:62009**

Racine, Jeffrey S. *see* **Li, Qi[1], 2004e:62085**

Radavičius, M. *see* **Rudzkis, R., 2004j:62134**

Rai, Shesh N. (*with* Sun, Jianguo; Hunt, Daniel) Analysis of occult tumour trial data with varying lethality. (English summary) (*see* **2004k:62018**)

Ramachandran, K. M. *see* **Chandramouli, R., 2004g:65189**

Ramamoorthi, R. V. *see* **Ghosh, Jayanta K., 2004g:62004**

Ramanathan, T. V. (*with* Dharmadhikari, A. D.; Abraham, Bovas) Nonparametric capability indices. (English summary) **2004e:62184**

Rathouz, Paul J. Likelihood methods for missing covariate data in highly stratified studies. (English summary) **2004f:62144**

Reichsthaler, Thomas *see* **Haupt, Harry et al.**

Reynaud-Bouret, Patricia Adaptive estimation of the intensity of inhomogeneous Poisson processes via concentration inequalities. (English summary) **2004d:60049**

Ross, C. *see* **Lei, Dongdong et al., (2004j:65005)**

Rudzkis, R. (*with* Radavičius, M.) Testing hypotheses on discriminant space in the mixture model of Gaussian distributions. (English summary) **2004j:62134**

Ryan, Louise M. *see* **Li, Yi[8] et al., 2004h:62180**

Sakhanenko, A. I. *see* **Montes-De-Oca, Raúl et al., 2004d:60184**

Sakov, Anat *see* **Bickel, Peter J., 2004d:62168**

Salem-Silva, Francisco *see* **Montes-De-Oca, Raúl et al., 2004d:60184**

Samsa, Gregory P. *see* **Parmigiani, Giovanni et al.**

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Saracco, Jérôme *see* **Gannoun, Ali, 2004b:62129**

Saran, Jagdish (*with* Pushkarna, Narinder) Recurrence relations between product moments of order statistics for truncated distributions and their applications. (English

summary) **2004e:62103**
Satten, Glen A. *see* **Li, Yi[8] et al., 2004h:62180**
Savaresi, Sergio M. (*with* Bittanti, Sergio; So, H. C.) Closed-form unbiased frequency estimation of a noisy sinusoid using notch filters. (English summary) **2004e:93093**
Scaillet, O. Nonparametric estimation and sensitivity analysis of expected shortfall. (English summary)
Schick, Anton (*with* Wefelmeyer, Wolfgang) Efficient estimation in invertible linear processes. (English summary) **2004g:62151**
Schladitz, Katja *see* **Koch, Karsten et al., 2004m:60021**
Schmidt, Rafael *see* **Bingham, N. H. et al., 2004j:91117**
Sebastián Guerrero, Maria Victoria *see* **Navascués, M. Antonia, 2004h:41007**
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Serfling, Robert Nonparametric multivariate descriptive measures based on spatial quantiles. (English summary)
Sethuraman, Jayaram *see* **Hollander, Myles**
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Shen, Jia (*with* Wu, Ming-xin) Uniform quadric error of the estimator of nonparametric regression in continuous time processes. (English and Chinese summaries) **2004g:62090**
Shen, Xiaotong *see* **Miyata, Satoshi, 2004a:62088**
Shin, Dong Wan (*with* Oh, Man-Suk) Lagged unstable regressor models and asymptotic efficiency of the ordinary least squares estimator. (English summary) **2004e:62165**
Shiu, Elias S. W. *see* **Gerber, Hans U.**
Shpungin, Y. *see* **Gertsbakh, I.**
Sickles, Robin C. *see* **Park, Byeong U. et al., 2004h:62161a** *and* **2004h:62161b**
Simar, Léopold *see* **Park, Byeong U. et al., 2004h:62161a** *and* **2004h:62161b**
Sinha, Bimal K. *see* **Perron, François, 2004m:62037**
Sinha, Samiran (*with* Mukherjee, Bhramar; Ghosh, Malay) Bayesian semiparametric modeling for matched case-control studies with multiple disease states. (English and French summaries)
Skinner, Chris J. (*with* Elliot, M. J.) A measure of disclosure risk for microdata. (English summary) **2004c:62024**
Skrondal, Anders (*with* Rabe-Hesketh, Sophia) ★ Generalized latent variable modeling. **2004m:62009**
So, H. C. *see* **Savaresi, Sergio M. et al., 2004e:93093**
Song, Kai-Sheng *see* **Hollander, Myles et al., 2004h:62179**
Song, Li Xin[1] *see* **Huang, Xiao Wei et al., 2004j:62212**
Sornette, Didier (*with* Takayasu, Hideki; Zhou, Wei Xing) Finite-time singularity signature of hyperinflation. (English summary) **2004g:91124**
Stamatović, Siniša Asymptotic behavior of a process specified by an estimate of a spectral matrix function. (Russian. Russian summary) **2004j:60077**
Stein, Michael L. *see* **Loh, J. M. et al.**
Stockis, Jean-Pierre *see* **Franke, Jürgen et al., 2004j:62087**
Stone, Charles J. (*with* Huang, Jianhua Z.) Statistical modeling of diffusion processes with free knot splines. (English summary) **2004i:60114**
Strauss, Martin Joel *see* **Muthukrishnan, S. Muthu, (2004a:68002)**
Stutzer, Michael Portfolio choice with endogenous utility: a large deviations approach. (English summary)
Sugakova, O. V. *see* **Maiboroda, Rostislav E., 2004a:62096**
Sun, Jianguo (*with* Sun, Liu-quan; Flournoy, Nancy) Additive hazards model for competing risks analysis of the case-cohort design. (English summary) **2004m:62222**
— *see also* **Rai, Shesh N. et al., (2004k:62018)**
Sun, Liu-quan *see* **Sun, Jianguo et al., 2004m:62222**
Tajvidi, Nader *see* **Hall, Peter G.**
Takayasu, Hideki *see* **Sornette, Didier et al., 2004g:91124**
Tamura, Tsutomu The effect of randomized low discrepancy sequences in option pricing. (Japanese. English and Japanese summaries) **2004c:91057**
Tien, Hsiao-Chuan *see* **Chen, Pai-Lien**
Toniolo, D. Schadenhöhenverteilungen der einzelnen Segmente versus Schadenhöhenverteilung des ganzen Portefeuilles. (English, French and German summaries) [Distributions of claims amounts of individual segments versus distribution of claims amounts of the entire portfolio] **2004f:62192**
Torokhtīī, A. P. *see* **Howlett, Phil G. et al., 2004e:94011**
Trejo, Raúl *see* **Kreinovich, Vladik, 2004b:68185**
Tsiatis, Anastasios A. *see* **Leon, Selene et al.**
Ullah, Aman *see* **Li, Qi[1] et al., 2004m:62131**
de Uña-Álvarez, Jacobo *see* **Marron, J. S.**
Vajda, Igor *see* **Österreicher, Ferdinand, 2004i:62014**
Van Keilegom, Ingrid *see* **Du, Yunling et al., 2004d:62248**
Velasco, Carlos Nonparametric frequency domain analysis of nonstationary multivariate time series. (English summary) **2004e:62168**
Verbaken, Tonny *see* **Jongbloed, Geurt**
Vermunt, Jeroen K. An EM algorithm for the estimation of parametric and nonparametric hierarchical nonlinear models. (English summary)
Vieu, Philippe *see* **Ferraty, Frédéric**
Viharos, L. *see* **Csörgő, Sándor, 2004d:60054**
Vinod, H. D. (*with* Geddes, R. R.) Generalized estimating equations for panel data and managerial monitoring in electric utilities. (English summary) **2004d:62374**
Vogel, Silvia (*with* Lachout, Petr) On continuous convergence and epi-convergence of random functions. I. Theory and relations. (English summary) **2004g:90070**
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Vyazilov, A. E. Empirical processes and robust estimation of parameters of the GARCH model. (English summary) **2004m:62204**
Wager, C. G. (*with* Coull, B. A.; Lange, N.) Modelling spatial intensity for replicated inhomogeneous point patterns in brain imaging. (English summary)
Wang, Ch'ing Yün *see* **Huang, Yang Xin**
Wang, Jian Bo *see* **Li, Yong[7], 2004a:62117**
Wang, Mei-Cheng *see* **Huang, Yijian**
Wang, Ning[2] *see* **Mei, Chang Lin, 2004f:62138**
Wang, Qi Hua Estimation of partial linear error-in-response models with validation data. (English summary) **2004b:62158**
— Dimension reduction in partly linear error-in-response models with validation data. (English summary) **2004k:62163**
Wang, Yan Hua[1] *see* **Mei, Chang Lin et al.**
Wang, Yuedong (*with* Ke, Chunlei; Brown, Morton B.) Shape-invariant modeling of circadian rhythms with random effects and smoothing spline ANOVA decompositions. (English and French summaries)
Wasserman, Larry ★ All of statistics. **2004m:62003**
Watson, G. A. *see* **Atieg, A., 2004g:65010**
Waxman, D. Numerical and exact solutions for continuum of alleles models. (English summary) **2004b:92020**
Wefelmeyer, Wolfgang *see* **Schick, Anton, 2004g:62151** *and* **Greenwood, Priscilla E. et al.**
Wellner, Jon A. *see* **Breslow, Norman E. et al., 2004m:62103**
Wichmann, Lars Forecasting tree size distribution by numerical approximation of the forward Kolmogorov equation. (English summary)
Wilczyński, Maciej Gamma minimax nonparametric estimation. (English summary) **2004d:62024**
Wilding, Gregory E. *see* **Marchetti, Carol E. et al., (2004k:62018)**
Wiuf, Carsten Inferring population history from genealogical trees. (English summary) **2004c:92017**
Woerner, Jeannette H. C. Variational sums and power variation: a unifying approach to model selection and estimation in semimartingale models. (English summary) **2004d:60110**
Wong, George Y. C. *see* **Yu, Qiqing, 2004g:62126**
Wong, Heung *see* **Ip, Wai Cheung et al., 2004k:62201**
Wu, Hulin (*with* Liang, Hua) Backfitting random varying-coefficient models with time-dependent smoothing covariates. (English summary) **2004k:62126**
Wu, Jian Rong[1] *see* **Prentice, Ross L. et al.**
Wu, Ming-xin *see* **Shen, Jia, 2004g:62090**
Wu, Wei Biao (*with* Pourahmadi, Mohsen) Nonparametric estimation of large covariance matrices of longitudinal data. (English summary) **2004j:62148**
Wu, Xiaodong *see* **McPeek, Mary Sara et al.**
Xue, Liu Gen Rates of random weighting approximation of wavelet estimates in semiparametric regression model. (Chinese. English and Chinese summaries) **2004h:62079**
Yanagihara, Hirokazu (*with* Ohtaki, Megu) Knot-placement to avoid over fitting in *B*-spline scedastic smoothing. (English summary)
Yin, Ji Ying *see* **Hall, Peter G.**
Yu, Qiqing (*with* Wong, George Y. C.) The semi-parametric MLE in linear regression with right-censored data. (English summary) **2004g:62126**
Zazanis, Michael A. *see* **Makatis, G.**
Zhang, Chunming M. Adaptive tests of regression functions via multiscale generalized likelihood ratios. (English and French summaries) **2004h:62088**
— Calibrating the degrees of freedom for automatic data smoothing and effective curve checking. (English summary) **2004h:62009**
Zhang, Haimeng (*with* Goldstein, Larry Mark) Information and asymptotic efficiency of the case-cohort sampling design in Cox's regression model. (English summary) **2004b:62131**
Zhou, Wei Xing *see* **Sornette, Didier et al., 2004g:91124**
Zhou, Yong[2] A note on oscillation modulus of PL-process and its applications under random censorship. (English summary) **2004e:62104**
Zhu, Li-Xing (*with* Cui, Heng-jian) A semi-parametric regression model with errors in variables. (English summary) **2004k:62164**
Zitikis, Ričardas *see* **Helmers, Roelof et al., 2004a:60095**
Zuo, Yi-jun Multivariate trimmed means based on data depth. (English summary) (*see* **2004d:62007**)
Zwanzig, Silvelyn How to adjust nonparametric regression estimators to models with errors in the variables? (English summary) **2004h:62080**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Gulati, Sneh, 2004a:62003**

62G07 Density estimation

Abadir, Karim M. (*with* Rockinger, Michael) Density funtionals, with an option-pricing application. (English summary) **2004g:62082**
Abdous, Belkacem (*with* Berlinet, Alain; Hengartner, Nicolas W.) A general theory for kernel estimation of smooth functionals of the distribution function and their derivatives. (English summary) **2004m:62095**
Acusta, Andre (*with* Eggermont, Paul; LaRiccia, Vincent) An EM algorithm for density estimation with randomly censored data. (English summary) **2004a:62084**
Ahmad, Ibrahim A. (*with* Mugdadi, Abdel-Razzaq) Analysis of kernel density estimation of functions of random variables. (English summary) **2004m:62096**
Averkamp, R. (*with* Houdré, Christian) Wavelet thresholding for non-necessarily Gaussian noise: idealism. (English summary) **2004a:62085**
Basu, Ayanendranath (*with* Lindsay, Bruce G.) The iteratively reweighted estimating equation in minimum distance problems. (English summary)
Berlinet, Alain (*with* Hobza, T.; Vajda, Igor) Asymptotics for generalized piecewise linear histograms. (English summary) **2004i:62076**
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— *see also* **Abdous, Belkacem et al., 2004m:62095**
Berrahou, Noureddine Principe de grandes déviations pour l'estimateur de la densité par la méthode des delta-suites. (English and French summaries) [Large deviation principle for the delta-sequence method density estimator]
Berzin, Corinne (*with* León, José R.; Ortega, Joaquín) Convergence of non-linear functionals of smoothed empirical processes and kernel density estimates. (English summary) **2004e:62082**

Bickel, Peter J. (*with* Ritov, Ya'acov) Nonparametric estimators which can be "plugged-in". (English summary) **2004f:62098**

Blanke, Delphine Estimation adaptative de la densité avec données échantillonnées. (English and French summaries) [Adaptive estimation of density with sampled observations]

Bondarenko, Oleg Estimation of risk-neutral densities using positive convolution approximation. (English summary) **2004g:62083**

Bouezmarni, Taoufik (*with* Rolin, Jean-Marie) Consistency of the beta kernel density function estimator. (English and French summaries) **2004b:62103**

Cadre, Benoît Hölder properties of the L_1-median. Rate of convergence in the estimation of the conditional L_1-median (mixing case). (English summary) **2004b:62104**

Cai, T. Tony On adaptive wavelet estimation of a derivative and other related linear inverse problems. (English summary) **2004c:62097**

Candès, Emmanuel J. Ridgelets: estimating with ridge functions. (English summary) **2004k:62116**

Castellan, Gwénaëlle Density estimation via exponential model selection. (English summary) **2004i:62078**

Chai, Gen Xiang *see* **Wu, Yue Qin** *and* **Sun, Yan**

Chanda, Kamal C. Density estimation for a class of stationary nonlinear processes. (English summary) **2004c:62098**

Chen, Kani Linear minimax efficiency of local polynomial regression smoothers. (English summary) **2004c:62099**

Chen, Xing *see* **Lu, Zu-di**, **2004i:62082**

Cheng, Fuxia Weak and strong uniform consistency of a kernel error density estimator in nonparametric regression. (English summary) **2004k:62117**

Chèze-Payaud, Nathalie (*with* Poggi, Jean-Michel; Portier, Bruno) Partial and recombined estimators for nonlinear additive models. (English summary) **2004e:62083**

Chicken, Eric Block thresholding and wavelet estimation for nonequispaced samples. (English summary) **2004e:62084**

Clements, Adam (*with* Hurn, Stan; Lindsay, Kenneth) Mobius-like mappings and their use in kernel density estimation. (English summary) **2004k:62118**

Collins, Joseph Nonparametric functional estimation by asymptotic regression. (English summary) **2004c:62100**

Comte, Fabienne (*with* Merlevède, Florence) Adaptive estimation of the stationary density of discrete and continuous time mixing processes. (English summary) **2004b:62105**

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Hjort, Nils Lid *see* **Glad, Ingrid K. et al.**, **2004b:62106**

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Inglese, Gabriele Fourier-Legendre approximation of a probability density from discrete data. (English summary) **2004b:62108**

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Kolassa, John E. *see* **Jing, Bing-Yi et al.**, **2004d:62153**

Koltchinskii, Vladimir *see* **Giné, Evarist et al.**, **2004k:62119**

Koo, Ja-Yong *see* **Kim, Woo-Chul**

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Krzyżak, Adam *see* **Devroye, Luc**, **2004f:62099**

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Merlevède, Florence *see* **Comte, Fabienne**, **2004b:62105** *and* **Guillou, Armelle**, **2004d:62151**

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Newton, Michael A. On a nonparametric recursive estimator of the mixing distribution. (English summary) **2004d:62156**

Nicholls, Geoff *see* **Mira, Antonietta**

Ortega, Joaquín *see* **Berzin, Corinne et al.**, **2004e:62082**

Park, Byeong U. *see* **Hall, Peter G. et al.**, **2004c:62103** *and* **Kim, Choongrak et al.**

Park, Eun Sug *see* **Spiegelman, Clifford**, **2004e:62086**

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Pensky, Marianna *see* **Singh, Radhey S.**, **2004j:62081**

Poggi, Jean-Michel *see* **Chèze-Payaud, Nathalie et al.**, **2004e:62083**

Polzehl, Jörg (*with* Spokoĭnyĭ, V. G.) Image denoising: pointwise adaptive approach. (English summary) **2004k:62122**

Portier, Bruno *see* **Chèze-Payaud, Nathalie et al.**, **2004e:62083**

Prakasa Rao, B. L. S. Moment inequalities for supremum of empirical processes for φ-mixing sequences. (English summary) **2004f:62104**

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Rockinger, Michael *see* **Abadir, Karim M.**, **2004g:62082**

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Runde, Ralf *see* **Scheffner, Axel**, **2004d:62157**

Sain, Stephan R. A new characterization and estimation of the zero-bias bandwidth. (English summary) **2004a:62086**

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Shen, Jia *see* **Zhang, Juan et al.**

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Spiegelman, Clifford (*with* Park, Eun Sug) Nearly nonparametric multivariate density estimates that incorporate marginal parametric density information. (English summary) **2004e:62086**

Spokoĭnyĭ, V. G. *see* **Polzehl, Jörg**, **2004k:62122**

Stone, Charles J. *see* **Kooperberg, Charles**, (**2004d:62006**)

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Sun, Yan (*with* Chai, Gen Xiang) A mixed-effects model for longitudinal data. (Chinese. English and Chinese summaries)

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Tran, Lanh T. *see* **Hallin, Marc et al.**, **2004i:62080**

Turlach, Berwin A. *see* **Hall, Peter G. et al.**, **2004c:62103**

de Uña-Álvarez, Jacobo *see* **Marron, J. S.**

Ushakov, Nikolai G. *see* **Glad, Ingrid K. et al.**, **2004b:62106**

Utikal, Klaus J. *see* **Kneip, Aloïs**, **2004d:62154**

van der Vaart, Aad W. (*with* van der Laan, Mark J.) Smooth estimation of a monotone density. (English summary) **2004d:62158**

Văduva, Ion *see* **Pascu, Mihai**, **2004f:62103**

Vajda, Igor *see* **Berlinet, Alain et al.**, **2004i:62076** *and* **2004i:62077**

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Vieu, Philippe *see* **Horová, Ivana et al.**, **2004j:62080**

Vilar Fernández, Juan M. *see* **Francisco-Fernandez, Mario**

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Items with secondary classifications in 62G07

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Ahmad, Ibrahim A. (*with* Mugdadi, Abdel-Razzaq) Testing normality using kernel methods. (English summary) **2004c:62105**

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Coppejans, Mark Effective nonparametric estimation in the case of severely discretized data. (English summary) **2004g:62087**

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Cutrona, Jérôme *see* **Bonnet, Noël et al.**, (**2004d:62005**)

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Hendi, M. M. I. *see* **Ahmad, Ibrahim A. et al.**, **2004i:62093**

Herbin, Michel *see* **Bonnet, Noël et al.**, (**2004d:62005**)

Hermoso Carazo, Aurora *see* **Caballero-Águila, Raquel et al.**, **2004h:93181**

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Khalafi, M. *see* **Soltani, A. R., 2004e:62170**
Kie, John G. *see* **Brillinger, David R. et al., 2004m:62232**
Kohatsu-Higa, Arturo *see* **Bermin, Hans-Peter et al., 2004b:91089**
Kotliková, Michala *see* **Vávra, František et al.**
Kou, S. C. Is C_p an empirical Bayes method for smoothing parameter choice? (English summary) **2004m:62023**
Koul, Hira L. (*with* Schick, Anton) Testing for superiority among two regression curves. (English summary) **2004f:62108**
Kutoyants, Yurii *see* **Dalalyan, Arnak S., 2004a:62148** *and* **2004d:62288**
van der Laan, Mark J. *see* **Molinaro, Annette M. et al.**
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Lasser, Rupert On lag windows connected with Jacobi polynomials. (English summary) **2004b:62201**
La Torre, Davide *see* **Iacus, Stefano Maria, 2004i:62066**
Lee, Andy H. *see* **Lu, Zu-di et al., 2004i:62043**
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Lu, Zu-di (*with* Hui, Yer Van; Lee, Andy H.) Minimum Hellinger distance estimation for finite mixtures of Poisson regression models and its applications. (English and French summaries) **2004i:62043**
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Mašková, Hana *see* **Vávra, František et al.**
Mason, David M. A uniform functional law of the logarithm for a local Gaussian process. (English summary) **2004j:60072**
Massiani, Anne *see* **Aubin, Jean-Baptiste, 2004h:62090**
Matias, Catherine Semiparametric deconvolution with unknown noise variance. (English summary) **2004f:62095**
Matuła, Przemysław On some inequalities for positively and negatively dependent random variables with applications. (English summary) **2004k:60050**
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Mugdadi, Abdel-Razzaq *see* **Ahmad, Ibrahim A., 2004c:62105**
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Naito, Kanta *see* **Ochiai, Toshimitsu, 2004f:62113**
Neal, Radford M. *see* **Jain, Sonia**
Nicoleris, Theodoros (*with* Walker, Stephen G.) On Hellinger consistent density estimation. (English summary) **2004k:62077**
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Ochiai, Toshimitsu (*with* Naito, Kanta) Asymptotic theory for the multiscale wavelet density derivative estimator. (English summary) **2004f:62113**
Olsen, Peder A. *see* **Basu, Sankar et al., 2004c:94036**
Ould-Saïd, Elias *see* **Lemdani, Mohamed, 2004d:62140**
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Stone, Charles J. *see* **Huang, Jianhua Z., (2004d:62006)**
Tong, Howell *see* **Chan, Kung Sik, 2004m:62175**
Tseng, Paul *see* **Sardy, Sylvain**
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Wefelmeyer, Wolfgang *see* **Müller, Ursula U. et al., 2004g:62089**
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62G08 Nonparametric regression

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Akhundov, Ilham *see* **Balakrishnan, Narayanaswamy, 2004m:62101**
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Cheng, Ming-Yen (*with* Hall, Peter G.) Reducing variance in nonparametric surface estimation. (English summary) **2004h:62077**
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Cook, R. Dennis *see* **Li, Bing[2] et al., 2004h:62078**
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De Canditiis, Daniela *see* **Angelini, Claudia et al., 2004d:62160**
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Doucet, Arnaud *see* **Godsill, Simon J. et al.**
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Khas′minskiĭ, Rafail Zalmanovich *see* **Liptser, R. S.**, **2004b:62111**
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Matzner-Løber, Eric *see* **Hengartner, Nicolas W. et al.**, **2004d:62162**
McNeney, Brad *see* **Breslow, Norman E. et al.**, **2004m:62103**
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Silva, Pedro M. *see* **Galvão, Roberto K. H. et al.**
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Wan, Jian Ping *see* **Sun, Yun Li et al.**
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Wang, Yuedong *see* **Liu, Anna**
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Weiss, Robert E. *see* **Ye, Zhishen**
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West, Mike *see* **Godsill, Simon J. et al.**
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Items with secondary classifications in 62G08

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Bonney, George E. *see* **Gannoun, Ali et al.**, **2004b:62211**
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Dodd, Lori E. (*with* Pepe, Margaret Sullivan) Semiparametric regression for the area under the receiver operating characteristic curve. (English summary) **2004e:62118**
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Dudoit, Sandrine *see* **Molinaro, Annette M. et al.**
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Goetghebeur, E. *see* **Vansteelandt, S.**
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Jones, Michael C. *see* **Signorini, D. F.** *and* **Yu, Ke Ming**

Joshi, Rajani R. *see* **Subramanian, Jyothi**
Kim, Woocheol *see* **Tripathi, Gautam, 2004k:62113**
Kohler, Michael *see* **Hamers, Michael, 2004b:60079**
(Konishi, Sadanori) *see* **Rao, Calyampudi Radhakrishna, (2004k:62017)**
Kontoghiorghes, Erricos John *see* **Gatu, Cristian, 2004d:90052**
van der Laan, Mark J. *see* **Molinaro, Annette M. et al.**
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Li, Qi[1] *see* **Racine, Jeffrey S., 2004m:62091**
Liebscher, Eckhard Convergence of the Gasser-Müller estimator under φ-mixing condition. (English summary) **2004d:62141**
Linton, Oliver B. *see* **Chen, Xiaohong[1] et al., 2004k:62105**
Lu, Yi Qing *see* **Hu, Yu Ping**
Malfait, Nicole (*with* Ramsay, James O.) The historical functional linear model. (English and French summaries)
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(Mukerjee, Rahul) *see* **Rao, Calyampudi Radhakrishna, (2004k:62017)**
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Munk, Axel *see* **Dette, Holger, 2004j:62091**
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Park, Jinho Optimal global rate of convergence in nonparametric regression with left-truncated and right-censored data. (English summary) **2004m:62089**
Pellizzari, Paolo *see* **Pizzi, Claudio, 2004k:65009**
Pepe, Margaret Sullivan *see* **Dodd, Lori E., 2004e:62118**
Pizzi, Claudio (*with* Pellizzari, Paolo) Monte Carlo pricing of American options using nonparametric regression. (English summary) **2004k:65009**
Qin, Yong-song *see* **Chen, Song Xi, 2004k:62103**
Qiu, Peihua The local piecewisely linear kernel smoothing procedure for fitting jump regression surfaces. (English summary) **2004k:62148**
Racine, Jeffrey S. (*with* Li, Qi[1]) Nonparametric estimation of regression functions with both categorical and continuous data. (English summary) **2004m:62091**
Ramsay, James O. *see* **Malfait, Nicole**
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Serot, Isabelle Estimateurs temps local de régression. (English and French summaries) [Local time regression estimators] **2004a:60131**
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Sun, Liu-quan Fixed design nonparametric regression with truncated and censored data. (English summary) **2004i:62073**
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Wei, Wen Hsiang Derivatives diagnostics and robustness for smoothing splines. (English summary)
Wei, Xin Yu *see* **Zhao, Xuan Min, 2004m:62094**
Wilkinson, Leland *see* **Wachsmuth, Amanda et al., 2004f:62017**
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62G09 Resampling methods

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62G10 Hypothesis testing

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Cabaña, E. M. *see* **Cabaña, A., 2004j:62089**
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Fang, Hong-Bin *see* **Sun, Jianguo, 2004b:62126**
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Ferraty, Frédéric *see* **Cardot, Hervé et al., 2004a:62092**
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Garza-Jinich, M. *see* **O'Reilly, F. J. et al., 2004i:62095**
Gastwirth, Joseph L. *see* **Freidlin, Boris et al., 2004i:62094**
Ghoudi, Kilani *see* **Abdous, Belkacem et al., 2004k:62127**
Gil, María Ángeles *see* **Montenegro, Manuel et al., 2004j:62096** *and* **(2004a:62013)**
Girard, Stéphane *see* **Diebolt, Jean et al., 2004e:62092**
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Heimann, Günter *see* **Neuhaus, Georg et al., 2004j:62097**
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Kristoffersen, A. B. *see* **Chan, Kung Sik et al., 2004c:62107**
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Leblanc, Frédérique (*with* Lepskiĭ, O. V.) Test of symmetry in nonparametric regression. (Russian summary) **2004e:62093**
Ledwina, T. *see* **Janic-Wróblewska, Alicja et al.**
Lee, Jae Won[2] *see* **Choi, Won et al.**
Lee, Mei-Ling Ting *see* **Rosner, Bernard et al., 2004j:62098**
Lee, Sangyeol *see* **Na, Myung Hwan**
Lepskiĭ, O. V. *see* **Leblanc, Frédérique, 2004e:62093**
Li, Chin-Shang A lack-of-fit test for heteroscedastic regression models via cosine-series smoothers. (English summary) **2004j:62095**
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Liang, Hua Comparison of curves based on a Cramér-von Mises statistic. (English summary)
von Lieres und Wilkau, Carsten *see* **Dette, Holger, 2004d:62172**
Liggett, Walter Nonparametric and semiparametric models in comparison of observations of a particle-size distribution. (English summary)
Lindsay, Bruce G. *see* **Mao, Chang Xuan**
Liu, Wei[4] *see* **Zhang, Ying[6] et al., 2004j:62099**
Liu, Xin Sheng[2] (*with* Wang, Jinde) Testing for increasing convex order in several populations. (English summary) **2004b:62123**
Lu, Xiang Wei *see* **Fei, He Liang et al., 2004d:62173**
Luger, Richard Exact non-parametric tests for a random walk with unknown drift under conditional heteroscedasticity. (English summary) **2004d:62174**
MaCurdy, Thomas E. (*with* Ryu, Keunkwan) Equivalence results in chi-square tests. (English summary) **2004g:62093**
Magel, Rhonda C. *see* **Terpstra, Jeffrey T., 2004d:62177**
Mao, Chang Xuan (*with* Lindsay, Bruce G.) Diagnostics for the homogeneity of inclusion probabilities in a Bernoulli census. (English summary)
Marchetti, Carol E. (*with* Mudholkar, Govind S.; Wilding, Gregory E.) Testing goodness-of-fit of the gamma models. (English summary) (*see* **2004k:62018**)
Marozzi, Marco A bi-aspect nonparametric test for the two-sample location problem. (English summary)
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Mas, André *see* **Cardot, Hervé et al., 2004a:62092**
Mazzaro, D. (*with* Pesarin, F.; Salmaso, Luigi) A discussion on multi-way ANOVA using a permutation approach. (English and Italian summaries) **2004d:62175**
McKeague, Ian W. *see* **Einmahl, John H. J., 2004h:62082**
Meintanis, Simos G. A class of omnibus tests for the Laplace distribution based on the empirical characteristic function. (English summary) **2004k:62130**
Meyer, Mary C. A test for linear versus convex regression function using shape-restricted regression. (English summary) **2004b:62124**
Miao, Weiwen *see* **Freidlin, Boris et al., 2004i:62094**
Mielke, Paul W., Jr. *see* **Iyer, Hari K. et al.**
Molchanov, Stanislav Alekseevich *see* **Derfel, G. et al., 2004m:62108**
Montenegro, Manuel (*with* Colubi, Ana; Casals, María Rosa; Gil, María Ángeles) Test of one-sided hypotheses on the expected value of a fuzzy random variable. (English summary) (*see* **2004a:62013**)
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Möttönen, Jyrki (*with* Hüsler, Jürg; Oja, Hannu) Multivariate nonparametric tests in a randomized complete block design. (English summary) **2004c:62110**
Mountz, John D. *see* **Gadbury, Gary L. et al.** *and* **Beasley, T. Mark et al.**
Mudholkar, Govind S. *see* **Srivastava, Deo Kumar**, (**2004h:62006**) *and* **Marchetti, Carol E. et al.**, (**2004k:62018**)
Mugdadi, Abdel-Razzaq *see* **Ahmad, Ibrahim A.**, **2004c:62105**
Munk, Axel *see* **Dette, Holger**, **2004j:62091**
Na, Jong-Hwa *see* **Park, Hyo-Il**, **2004m:62109**
Na, Myung Hwan (*with* Lee, Sangyeol) A family of IDMRL tests with unknown turning point. (English summary)
Nadaraya, È. A. *see* **Absava, R. M.**, **2004m:62106**
Neuhaus, Georg (*with* Heimann, Günter; Zhu, Li-Xing) Optimal tests for carcinogenicity in a model with fatal and incidental tumours. (English summary) **2004j:62097**
Nikitin, Yakov *see* **Henze, Norbert**, **2004h:62086**
Nikulin, Mikhail S. *see* **Zerbet, Aïcha**, **2004b:62127**
Oh, Man-Suk *see* **Shin, Dong Wan**, **2004c:62095**
Oja, Hannu *see* **Möttönen, Jyrki et al.**, **2004c:62110**
O'Reilly, F. J. (*with* Rueda, R.; Garza-Jinich, M.) How important is the effect of rounding in goodness-of-fit. (English summary) **2004i:62095**
Ottoy, J. P. *see* **Thas, O.**, **2004f:62109**
Padmanabhan, A. R. *see* **Babu, Gutti Jogesh**, **2004e:62091**
Page, Grier P. *see* **Gadbury, Gary L. et al.** *and* **Beasley, T. Mark et al.**
Park, Hyo-Il (*with* Na, Jong-Hwa) Nonparametric one-sided tests for multivariate and right censored data. (English summary) **2004m:62109**
Perera, Gonzalo (*with* Wschebor, Mario) Inference on the variance and smoothing of the paths of diffusions. (English and French summaries) **2004d:62176**
Pesarin, F. *see* **Mazzaro, D. et al.**, **2004d:62175**
Petunin, Yu. I. *see* **Klyushin, D. A.**, **2004j:62094**
Pewsey, Arthur Testing circular symmetry. (English and French summaries) **2004b:62125**
Picek, Jan *see* **Jurečková, Jana et al.**, **2004j:62092**
Prakasa Rao, B. L. S. *see* **Dewan, Isha**, **2004a:62094**
Rahnenführer, Jörg On preferences of general two-sided tests with applications to Kolmogorov–Smirnov-type tests. (English summary) **2004g:62094**
Rémillard, Bruno *see* **Abdous, Belkacem et al.**, **2004k:62127**
Rosenberger, William F. (*with* Rukhin, Andrew. L.) Bias properties and nonparametric inference for truncated binomial randomization. (English summary) **2004i:62096**
Rosner, Bernard (*with* Glynn, Robert J.; Lee, Mei-Ling Ting) Incorporation of clustering effects for the Wilcoxon rank sum test: a large-sample approach. (English and French summaries) **2004j:62098**
Rueda, R. *see* **O'Reilly, F. J. et al.**, **2004i:62095**
Rukhin, Andrew. L. *see* **Rosenberger, William F.**, **2004i:62096**
Ryu, Keunkwan *see* **MaCurdy, Thomas E.**, **2004g:62093**
Salmaso, Luigi *see* **Mazzaro, D. et al.**, **2004d:62175**
Sarda, Pascal *see* **Cardot, Hervé et al.**, **2004a:62092**
Schick, Anton *see* **Koul, Hira L.**, **2004f:62108**
Sen, Pranab Kumar[1] *see* **Jurečková, Jana et al.**, **2004j:62092**
Shier, Douglas R. A lattice-based approach to matched pairs tests. (English summary) **2004e:62094**
Shin, Dong Wan (*with* Oh, Man-Suk) Tests for the order of integration against higher order integration. (English summary) **2004e:62095**
Song, Wei-xing *see* **Zhu, Li-Xing et al.**, **2004g:62095**
Srivastava, Deo Kumar (*with* Mudholkar, Govind S.) Goodness-of-fit tests for univariate and multivariate normal models. (*see* **2004h:62006**)
Steinebach, J. G. *see* **Gut, Allan**, **2004g:62092**
Stenseth, Nils Chr. *see* **Chan, Kung Sik et al.**, **2004c:62107**
Stepanova, N. A. Multivariate rank tests for independence and their asymptotic efficiency. (English summary) **2004i:62097**
Sun, Jianguo (*with* Fang, Hong-Bin) A nonparametric test for panel count data. (English summary) **2004b:62126**
Sun, Yanqing (*with* Wu, Hulin) AUC-based tests for nonparametric functions with longitudinal data. (English summary) **2004e:62096**
Suslina, Irina A. *see* **Ingster, Yu. I.**, **2004h:62087**
Tanizaki, Hisashi On small sample properties of permutation tests: independence between two samples. (English summary)
Terpstra, Jeffrey T. (*with* Magel, Rhonda C.) A new nonparametric test for the ordered alternative problem. (English summary) **2004d:62177**
Thas, O. (*with* Ottoy, J. P.) Some generalizations of the Anderson-Darling statistic. (English summary) **2004f:62109**
Vecchia, Dominic F. *see* **Iyer, Hari K. et al.**
Veraverbeke, Noël *see* **Braekers, Roel**, **2004d:62171**
Wang, Jinde *see* **Liu, Xin Sheng**[2], **2004b:62123**
Werker, Bas J. M. *see* **Hallin, Marc**, **2004b:62121**
Wilding, Gregory E. *see* **Marchetti, Carol E. et al.**, (**2004k:62018**)
Wolfe, Douglas A. *see* **Horn, Paul S.**
Wschebor, Mario *see* **Perera, Gonzalo**, **2004d:62176**
Wu, Hulin *see* **Sun, Yanqing**, **2004e:62096** *and* **Zhang, Ying**[6] **et al.**, **2004j:62099**
Xu, Xiao Ling *see* **Fei, He Liang et al.**, **2004d:62173**
Yang, Wen An *see* **Han, Cheng Biao**
Yode, Armel Fabrice Test d'indépendance nonparamétrique. (English and French summaries) [Asymptotically minimax testing of the hypothesis of independence]
Zerbet, Aïcha (*with* Nikulin, Mikhail S.) A new statistic for detecting outliers in exponential case. (English summary) **2004b:62127**
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Zhao, Lin Cheng Linear hypothesis testing in censored regression models. (English summary) **2004k:62131**
Zhou, Mai[1] *see* **Chen, Kun**[1], **2004a:62093**
Zhu, Li-Xing (*with* Song, Wei-xing; Cui, Heng-jian) Testing lack-of-fit for a polynomial errors-in-variables model. (English summary) **2004g:62095**
— Model checking of dimension-reduction type for regression. (English summary) **2004e:62097**
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Items with secondary classifications in 62G10

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— *see also* **Du, Yunling et al.**, **2004d:62248** *and* **Tsangari, Haritini**, **2004k:62125**
Allefeld, Carsten (*with* Kurths, Jürgen) Testing for phase synchronization. (English summary)
Andreou, Elena (*with* Ghysels, Eric) Tests for breaks in the conditional co-movements of asset returns. (English summary)
Antzoulakos, Demetrios L. (*with* Bersimis, S.; Koutras, Markos V.) On the distribution of the total number of run lengths. (English summary) **2004m:62126**
Asyali, Musa H. *see* **Shoukri, Mohamed M. et al.**
Babu, Gutti Jogesh (*with* Rao, Calyampudi Radhakrishna) Confidence limits to the distance of the true distribution from a misspecified family by bootstrap. (English summary) **2004c:62072**
Bad-Dumitrescu, Monica E. *see* **von Collani, Elart**, **2004h:90015** *and* **2004i:90025**
Bakirov, Nail K. *see* **Székely, Gábor J.**, **2004c:60051**
Baraud, Yannick Non-asymptotic minimax rates of testing in signal detection. (English summary) **2004e:62014**
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Bersimis, S. *see* **Antzoulakos, Demetrios L. et al.**, **2004m:62126**
Best, D. J. *see* **Brockhoff, P. B. et al.**, **2004m:62081**
Betti, L. *see* **Brizzi, Maurizio et al.**
Bickel, Peter J. *see* **Kim, Namhyun**, **2004f:62127**
Biondi, C. *see* **Brizzi, Maurizio et al.**
Bischoff, Wolfgang (*with* Hashorva, Enkelejd; Hüsler, Jürg; Miller, Frank) Exact asymptotics for boundary crossings of the Brownian bridge with trend with application to the Kolmogorov test. (English summary) **2004i:60115**
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Bonett, Douglas G. *see* **Seier, Edith**, **2004f:60032**
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Busetti, Fabio (*with* Taylor, A. M. Robert) Testing against stochastic trend and seasonality in the presence of unattended breaks and unit roots. (English summary) **2004h:62154**
Chandramouli, R. (*with* Ramachandran, K. M.) Wavelets for statistical estimation and detection. (English summary) **2004g:65189**
Chaudhary, Mohammad Ashraf *see* **Shoukri, Mohamed M. et al.**
Chen, Ge Mai *see* **Chen, Min**[4], **2004c:62179**
Chen, Min[4] (*with* Chen, Ge Mai) A Kolmogorov-Smirov test of conditional heteroscedasticity for threshold autoregressive models. (Chinese. English and Chinese summaries) **2004c:62179**
Chen, Zhiqiang[1] (*with* Tyler, David E.) The influence function and maximum bias of Tukey's median. (English summary) **2004f:62125**
Chèze-Payaud, Nathalie (*with* Poggi, Jean-Michel; Portier, Bruno) Partial and recombined estimators for nonlinear additive models. (English summary) **2004e:62083**
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Dauxois, Jean-Yves (*with* Kirmani, Syed N. U. A.) Testing the proportional odds model under random censoring. (English summary) **2004j:62204**
Delicado, Pedro F. (*with* Romo, Juan J.) Random coefficient regressions: parametric goodness-of-fit tests. (English summary) **2004i:62124**
Deshpande, Jayant V. *see* **Dewan, Isha et al.**
Dewan, Isha (*with* Deshpande, Jayant V.; Kulathinal, S. B.) On testing dependence between time to failure and cause of failure via conditional probabilities. (English summary)
Diggle, Peter J. *see* **Schlather, Martin et al.**
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Du, Yunling (*with* Akritas, Michael G.; Van Keilegom, Ingrid) Nonparametric analysis of covariance for censored data. (English summary) **2004d:62248**
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van Eeden, Constance *see* **Bean, Raphaël et al.**
Eissenstat, David M. *see* **Akritas, Michael G. et al.**
Febrero-Bande, Manuel *see* **García-Soidán, Pilar H. et al.**, **2004j:62068**
Ferreira, José António Sousa Jorge An empirical process with applications to testing the exponential and geometric models. (English summary) **2004d:62185**
Finos, Livio (*with* Salmaso, Luigi) Nonparametric multi-focus analysis for categorical variables. (English summary)

Franz, C. *see* **Baringhaus, Ludwig**, 2004i:62092
Froda, Sorana *see* **Bean, Raphaël et al.**
García-Soidán, Pilar H. (*with* Febrero-Bande, Manuel; González-Manteiga, Wenceslao) Nonparametric kernel estimation of an isotropic variogram. (English summary) **2004j:62068**
Ghysels, Eric *see* **Andreou, Elena**
Giraitis, Liudas (*with* Kokoszka, P. S.; Leipus, Remigijus; Teyssière, Gilles) Rescaled variance and related tests for long memory in volatility and levels. (English summary) **2004b:62164**
Gombay, Edit U-statistics in sequential tests and change detection. (English summary)
González-Manteiga, Wenceslao *see* **García-Soidán, Pilar H. et al.**, 2004j:62068
Guay, Alain Optimal predictive tests. (English summary) **2004i:62169**
Hallin, Marc (*with* Paindaveine, Davy) Multivariate signed ranks: Randles' interdirections or Tyler's angles? (English summary) (*see* **2004d:62007**)
Härdle, Wolfgang *see* **Yang, Lijian et al.**, 2004j:62082
Hashorva, Enkelejd *see* **Bischoff, Wolfgang et al.**, 2004i:60115 *and* **2004m:60074**
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Horváth, Lajos (*with* Kokoszka, P. S.; Teyssière, Gilles) Bootstrap misspecification tests for ARCH based on the empirical process of squared residuals. (English summary)
Huang, Ho-Chuan River A flexible nonlinear inference to the Kuznets hypothesis. (English summary)
Hughes, James P. (*with* Totten, Patricia) Estimating the accuracy of polymerase chain reaction-based tests using endpoint dilution. (English and French summaries)
Hüsler, Jürg *see* **Bischoff, Wolfgang et al.**, 2004i:60115 *and* **2004m:60074**
Janssen, Arnold (*with* Pauls, Thorsten) How do bootstrap and permutation tests work? (English summary) **2004b:62114**
Jurečková, Jana L_1-derivatives, score functions and tests. (English summary) **2004h:62064**
Kang, Sang Gil *see* **Kim, Dal Ho et al.**, 2004j:62053
Kim, Dal Ho (*with* Kang, Sang Gil; Lee, Woo Dong) Bayesian test for the equality of the means and variances of the two normal populations with variances related to the means using noninformative priors. (English summary) **2004j:62053**
Kim, Namhyun (*with* Bickel, Peter J.) The limit distribution of a test statistic for bivariate normality. (English summary) **2004f:62127**
Kirmani, Syed N. U. A. *see* **Dauxois, Jean-Yves**, 2004j:62204
Kokoszka, P. S. *see* **Giraitis, Liudas et al.**, 2004b:62164 *and* **Horváth, Lajos et al.**
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Koutras, Markos V. *see* **Antzoulakos, Demetrios L. et al.**, 2004m:62126
Kulathinal, S. B. *see* **Dewan, Isha et al.**
Kurths, Jürgen *see* **Allefeld, Carsten**
Lalley, Steven P. (*with* Nobel, Andrew B.) Indistinguishability of absolutely continuous and singular distributions. (English summary) **2004g:62040**
Larocque, Denis An affine-invariant multivariate sign test for cluster correlated data. (English and French summaries) **2004m:62139**
Lazzarato, L. *see* **Brizzi, Maurizio et al.**
Lee, Sangyeol (*with* Na, Seongryong) A nonparametric test for the change of the density function in strong mixing processes. (English summary) **2004i:62152**
Lee, Woo Dong *see* **Kim, Dal Ho et al.**, 2004j:62053
Leipus, Remigijus *see* **Giraitis, Liudas et al.**, 2004b:62164
Li, Dingding (*with* Stengos, Thanasis) Testing serial correlation in semiparametric time series models. (English summary) **2004d:62308**
Li, Xiao Hu (*with* Yao, Hai-yuan) Test for NBUE ordering between two random lives with common finite mean. (English and Chinese summaries) **2004b:62218**
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Malevergne, Y. (*with* Sornette, Didier) Testing the Gaussian copula hypothesis for financial assets dependences. (English summary) **2004f:91079**
Mariné, Claudette *see* **Raufaste, Eric et al.**
Maris, Eric *see* **Maris, Gunter**, 2004i:91168
Maris, Gunter (*with* Maris, Eric) Testing the race model inequality: a nonparametric approach. (English summary) **2004i:91168**
Mengersen, Kerrie L. *see* **Haynes, Michele**
Miller, Frank *see* **Bischoff, Wolfgang et al.**, 2004i:60115 *and* **2004m:60074**
Morgenthaler, Stephan (*with* Staudte, R. G.) Optimal weights of evidence with bounded influence. (English summary) **2004i:62015**
Morris, K. W. (*with* Szynal, Dominik) Tests derived from characterizations in terms of moments of record values. (English summary) **2004g:62041**
Na, Seongryong *see* **Lee, Sangyeol**, 2004i:62152
Nobel, Andrew B. *see* **Lalley, Steven P.**, 2004g:62040
Orasch, Markus (*with* Pouliot, William) Tabulating weighted sup-norm functionals used in change-point analysis. (English summary)
Paindaveine, Davy *see* **Hallin, Marc**, (2004d:62007)
Paul, Anand Characterizations of the uniform distribution via sample spacings and nonlinear transformations. (English summary) **2004h:60018**
Pauls, Thorsten *see* **Janssen, Arnold**, 2004b:62114
Poggi, Jean-Michel *see* **Chèze-Payaud, Nathalie et al.**, 2004e:62083
Portier, Bruno *see* **Chèze-Payaud, Nathalie et al.**, 2004e:62083
Pouliot, William *see* **Orasch, Markus**
Pycke, Jean-Renaud Multivariate extensions of the Andeson-Darling process. (English summary) **2004m:60082**
Radavičius, M. *see* **Rudzkis, R.**, 2004j:62134
Rahman, Mezbahur Testimation of a probability density: the exponential case. (English summary)
Rai, Shesh N. *see* **Sun, Jianguo et al.**, (2004k:62018)
Ramachandran, K. M. *see* **Chandramouli, R.**, 2004g:65189
Rao, Calyampudi Radhakrishna *see* **Babu, Gutti Jogesh**, 2004c:62072
Rapallo, Fabio Algebraic Markov bases and MCMC for two-way contingency tables. (English summary) **2004d:62212**
Raufaste, Eric (*with* da Silva Neves, Rui; Mariné, Claudette) Testing the descriptive validity of possibility theory in human judgements of uncertainty. (English summary)
Rayner, J. C. W. *see* **Brockhoff, P. B. et al.**, 2004m:62081
Ribeiro, Paulo J., Jr. *see* **Schlather, Martin et al.**
Ridder, Geert *see* **Koning, Ruud H.**, 2004e:62010
Romo, Juan J. *see* **Delicado, Pedro F.**, 2004i:62124
Rudzkis, R. (*with* Radavičius, M.) Testing hypotheses on discriminant space in the mixture model of Gaussian distributions. (English summary) **2004j:62134**
Salmaso, Luigi *see* **Finos, Livio**
Schlather, Martin (*with* Ribeiro, Paulo J., Jr.; Diggle, Peter J.) Detecting dependence between marks and locations of marked point processes. (English summary)
Schmitz, Norbert *see* **Konopka, Jörg**, 2004b:62019 *and* **2004c:62021**
Seier, Edith (*with* Bonett, Douglas G.) Two families of kurtosis measures. (English summary) **2004f:60032**
Shoukri, Mohamed M. (*with* Chaudhary, Mohammad Ashraf; Asyali, Musa H.) Confidence intervals for the limiting availability assuming correlated Rayleigh random variables. (English summary)
da Silva Neves, Rui *see* **Raufaste, Eric et al.**
Small, Michael (*with* Tse, Chi K.) Detecting determinism in time series: the method of surrogate data. (English summary) **2004d:62319**
Smith, Richard J. *see* **Taylor, A. M. Robert**, 2004c:62186
Sornette, Didier *see* **Malevergne, Y.**, 2004f:91079
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Ferreira, José António Sousa Jorge An empirical process with applications to testing the exponential and geometric models. (English summary) **2004d:62185**

Flanders, W. Dana (*with* Barnhart, Huiman X.; Kosinski, Andrzej S.) An estimated score method for missing and auxiliary covariates in two stage studies. (English summary) **2004d:62132**

Fortiana, J. *see* **Grané, A.**

Franz, C. *see* **Baringhaus, Ludwig, 2004i:62092**

Gadiaga, Dembo Tests hilbertiens pour un processus stationnaire et mélangeant. (English and French summaries) [Hilbert tests for a stationary mixing process] **2004h:62085**

Gannoun, Ali (*with* Saracco, Jérôme; Bonney, George E.) A note on partitioning estimate of conditional distribution under censoring. (English summary) **2004b:62211**

Gao, Fuqing Moderate deviations and large deviations for kernel density estimators. (English summary) **2004d:62150**

Gardes, Laurent Double-thresholded estimator of extreme value index. (English and French summaries) **2004f:62122**

Gather, Ursula *see* **Barme-Delcroix, Marie-Francoise, 2004e:62099**

Genest, Christian (*with* Werker, Bas J. M.) Conditions for the asymptotic semiparametric efficiency of an omnibus estimator of dependence parameters in copula models. (English summary)

— (*with* Plante, Jean-François) On Blest's measure of rank correlation. (English and French summaries) **2004d:62207**

Ghosal, Subhashis (*with* Lember, Jüri; van der Vaart, Aad W.) On Bayesian adaptation. (English summary) **2004j:62100**

Ghosh, Jayanta K. (*with* Ramamoorthi, R. V.) ★ Bayesian nonparametrics. **2004g:62004**

Ghoudi, Kilani *see* **Abdous, Belkacem et al., 2004k:62127**

Gil, María Ángeles *see* **Montenegro, Manuel et al., 2004j:62096**

Gilbert, Peter B. Goodness-of-fit tests for semiparametric biased sampling models. (English summary) **2004h:62061**

Giné, Evarist (*with* Guillou, Armelle) Rates of strong uniform consistency for multivariate

kernel density estimators. (English and French summaries) **2004e:60059**

— (*with* Koltchinskii, Vladimir; Sakhanenko, Lyudmila) Convergence in distribution of self-normalized sup-norms of kernel density estimators. (English summary) **2004k:62119**

Girard, Stéphane (*with* Jacob, Pierre M.) Projection estimates of point processes boundaries. (English summary) **2004c:62090**

Goegebeur, Yuri *see* **Beirlant, Jan, 2004m:62102**

Goia, Aldo *see* **Ferraty, Frédéric et al., 2004a:60084** *and* **Cardot, Hervé et al.**

Goldenshluger, A. (*with* Spokoĭnyĭ, V. G.) On the shape-from-moments problem and recovering edges from noisy Radon data. (English summary) **2004k:44001**

Gomes, M. Ivette (*with* de Haan, Laurens; Peng, Liang) Semi-parametric estimation of the second order parameter in statistics of extremes. (English summary) **2004g:62101**

Gottlieb, Alex D. Asymptotic equivalence of the jackknife and infinitesimal jackknife variance estimators for some smooth statistics. (English summary) **2004g:62066**

Grané, A. (*with* Fortiana, J.) Maximum correlations and tests of goodness-of-fit. (English summary)

Groeneboom, P. (*with* Lopuhaä, H. P.; de Wolf, P. P.) Kernel-type estimators for the extreme value index. (English summary) **2004i:62065**

Gu, Chong (*with* Kim, Young-Ju) Penalized likelihood regression: general formulation and efficient approximation. (English and French summaries) **2004a:62087**

Guillou, Armelle *see* **Giné, Evarist, 2004e:60059** *and* **Diebolt, Jean et al., 2004f:60117**

Guo, Jiin-Huarng Four correlation coefficients with a third blocking variable: their efficacy, relative efficiency, and test statistics. (English summary) **2004g:62091**

Györfi, László (*with* Kohler, Michael) Nonparametric regression estimation. **2004d:62134**

de Haan, Laurens *see* **Gomes, M. Ivette et al., 2004g:62101** *and* **Ferreira, Ana et al., 2004k:62138**

Hall, Peter G. (*with* Molchanov, Ilya S.) Sequential methods for design-adaptive estimation of discontinuities in regression curves and surfaces. (English summary) **2004g:62148**

Hallin, Marc (*with* Lu, Zu-di; Tran, Lanh T.) Kernel density estimation for spatial processes: the L_1 theory. (English summary) **2004i:62080**

Härdle, Wolfgang *see* **Delecroix, Michel et al., 2004d:62130**

Heimann, Günter *see* **Neuhaus, Georg et al., 2004j:62097**

Helmers, Roelof (*with* Mangku, I. Wayan; Zitikis, Ričardas) Consistent estimation of the intensity function of a cyclic Poisson process. (English summary) **2004a:60095**

Hendriks, Harrie Application of fast spherical Fourier transform to density estimation. (English summary) **2004b:62107**

Hengartner, Nicolas W. *see* **Abdous, Belkacem et al., 2004m:62095**

Hiraba, Seiji Asymptotic estimates for densities of multi-dimensional stable distributions. **2004i:62081**

Hoffmann, Marc *see* **Höpfner, R. et al., 2004k:62107**

Höpfner, R. (*with* Hoffmann, Marc; Löcherbach, E.) Non-parametric estimation of the death rate in branching diffusions. (English summary) **2004k:62107**

Hristache, Marian *see* **Delecroix, Michel et al., 2004d:62130**

Hsu, Yu-Sheng *see* **Chen, Sy-Mien, 2004b:62216**

Huang, Jianhua Z. Local asymptotics for polynomial spline regression. (English summary) **2004i:62088**

Huang, Yang Xin (*with* Wang, Ch'ing Yün) Errata: "Cox regression with accurate covariates unascertainable: a nonparametric-correction approach" [J. Amer. Statist. Assoc. **95** (2000), no. 452, 1209–1219].

Huet, Sylvie *see* **Baraud, Yannick et al., 2004c:62106**

Hurvich, Clifford M. *see* **Chen, Willa W., 2004i:62061**

Hüsler, Jürg *see* **Möttönen, Jyrki et al., 2004c:62110**

Imai, Hideyuki *see* **Yoshida, Kiyotaka et al., 2004b:62147**

Inglot, Tadeusz (*with* Janic-Wróblewska, Alicja) Data driven chi-square test for uniformity with unequal cells. (English summary) **2004f:62107**

Jacob, Pierre M. *see* **Girard, Stéphane, 2004c:62090**

Jammalamadaka, Sreenivasa Rao (*with* Taufer, Emanuele) Testing exponentiality by comparing the empirical distribution function of the normalized spacings with that of the original data. (English summary) **2004k:62135**

Janic-Wróblewska, Alicja *see* **Inglot, Tadeusz, 2004f:62107**

Jarušková, Daniela Asymptotic distribution of a statistic testing a change in simple linear regression with equidistant design. (English summary) **2004f:62057**

Jeong, Meeseon (*with* Kim, Choongrak) Some properties of SIMEX estimator in partially linear measurement error model. (English summary) **2004d:62165**

Jiang, Xue Lei *see* **Zhou, Yong[2] et al., 2004k:62114**

Judge, George G. *see* **Mittelhammer, Ron C. et al., 2004d:62142**

Jurečková, Jana (*with* Picek, Jan; Sen, Pranab Kumar[1]) Goodness-of-fit test with nuisance regression and scale. (English summary) **2004j:62092**

Kallenberg, Wilbert C. M. The penalty in data driven Neyman's tests. (English summary) **2004c:62109**

Khan, Shakeeb *see* **Chen, Songnian, 2004h:62058**

Khas′minskiĭ, Rafail Zalmanovich *see* **Liptser, R. S., 2004b:62111**

Kim, Choongrak *see* **Jeong, Meeseon, 2004d:62165**

Kim, Donghoh *see* **Kim, Tae Yoon, 2004h:62075**

Kim, Jinheum (*with* Cai, Jianwen) Independence test for bivariate censored data under univariate censorship. (English summary) **2004f:62182**

Kim, Tae Yoon (*with* Kim, Donghoh) Kernel regression estimation under dependence. (English summary) **2004h:62075**

— *see also* **Eguchi, Shinto et al., 2004j:62083**

Kim, Woo-Chul *see* **Park, Cheol-Woo, 2004m:62088**

Kim, Young-Ju *see* **Gu, Chong, 2004a:62087**

Kirmani, Syed N. U. A. *see* **Dauxois, Jean-Yves, 2004j:62204**

Klaassen, Chris A. J. (*with* Lenstra, Andries J.) Vanishing Fisher information. (English summary) **2004j:62072**

Klemelä, Jussi Lower bounds for the asymptotic minimax risk with spherical data. (English summary) **2004b:62109**

Kohler, Michael Nonlinear orthogonal series estimates for random design regression. (English summary) **2004d:62167**

— *see also* **Györfi, László, 2004d:62134**

Kokic, Philip (*with* Breckling, Jens; Lübke, Oliver) A new definition of multivariate M-quantiles. (English summary) (*see* **2004d:62007**)

Koltchinskii, Vladimir *see* **Giné, Evarist et al., 2004k:62119**

Kondo, Masao *see* **Nomachi, Toshifumi et al., 2004b:62095**

Korostelev, A. P. The Bahadur risk in probability density estimation. (English summary) **2004f:62101**

Kosinski, Andrzej S. *see* **Flanders, W. Dana et al., 2004d:62132**

Kou, S. C. On the efficiency of selection criteria in spline regression. (English summary) **2004i:62089**

Kutoyants, Yurii *see* **Dalalyan, Arnak S., 2004a:62148** *and* **2004d:62288**

Lababidi, Samir A nonparametric estimation problem from indirect observations. (English summary) **2004i:62069**

Laurent, Béatrice *see* **Baraud, Yannick et al., 2004c:62106**

Leblanc, Frédérique *see* **Angelini, Claudia et al., 2004d:62160**

Lember, Jüri *see* **Ghosal, Subhashis et al., 2004j:62100**

Lemdani, Mohamed (*with* Ould-Saïd, Elias) $\mathscr{L}_1$-deficiency of the Kaplan-Meier estimator. (English summary) **2004d:62140**

Lenstra, Andries J. *see* **Klaassen, Chris A. J., 2004j:62072**

Levit, Boris *see* **Artiles Martínez, L. M., 2004e:62070**

Li, Linyuan Non-linear wavelet-based density estimators under random censorship. (English summary) **2004g:62085**

— On Koul's minimum distance estimators in the regression models with long memory moving averages. (English summary) **2004c:62182**

Liang, Hua *see* **Zhou, Yong[2], 2004d:62146**

Liebscher, Eckhard Convergence of the Gasser-Müller estimator under φ-mixing condition. (English summary) **2004d:62141**

Lii, Keh-Shin (*with* Rosenblatt, Murray) Correction: "Spectral analysis for harmonizable processes" [Ann. Statist. **30** (2002), no. 1, 258–297]. **2004i:62168**

Lin, Guo Hua (*with* Pearn, Wen-Lea) A note on the interval estimation of C_{pk} with asymmetric tolerances. (English summary) **2004a:62192**

Liptser, R. S. (*with* Khas′minskiĭ, Rafail Zalmanovich) Tracking a smooth regression function. (Russian. Russian summary) **2004b:62111**

Liu, Ya-mei *see* **Niu, Si-li, 2004b:62094**

Löcherbach, E. *see* **Höpfner, R. et al., 2004k:62107**

Lopuhaä, H. P. *see* **Groeneboom, P. et al., 2004i:62065**

Lu, Zu-di *see* **Hallin, Marc et al., 2004i:62080**

Lübke, Oliver *see* **Kokic, Philip et al., (2004d:62007)**

Maiboroda, Rostislav E. A least squares estimator for the parameter of concentrations of varying mixtures. I. Consistency. (Ukrainian. Ukrainian summary) **2004e:62077**

— A least square estimator for the parameters of concentrations of varying mixtures. II. Asymptotic normality. (Ukrainian. Ukrainian summary) **2004g:60052**

Mammen, Enno (*with* Nielsen, Jens Perch) Generalised structured models. (English summary) **2004j:62074**

Mangku, I. Wayan *see* **Helmers, Roelof et al., 2004a:60095**

Marinucci, Domenico Gaussian semiparametric estimation for random fields with singular spectrum. (English summary) **2004i:60070**

Masry, Elias Local polynomial fitting under association. (English summary) **2004e:62089**

Mikhailishin, V. Yu. *see* **Yavorskiĭ, I. N. et al., 2004i:62075**

Mironov, D. V. *see* **Borisov, I. S., 2004c:62073**

Mittelhammer, Ron C. (*with* Judge, George G.; van Akkeren, Marco; Cardell, N. Scott) Coordinate-based empirical likelihood-like estimation in ill-conditioned inverse problems. (English summary) **2004d:62142**

Molchanov, Ilya S. *see* **Hall, Peter G., 2004g:62148**

Montenegro, Manuel (*with* Colubi, Ana; Casals, María Rosa; Gil, María Ángeles) Asymptotic and bootstrap techniques for testing the expected value of a fuzzy random variable. (English summary) **2004j:62096**

Moreira Freitas, Ana Cristina *see* **Brito, Margarida, 2004k:62100**

Möttönen, Jyrki (*with* Hüsler, Jürg; Oja, Hannu) Multivariate nonparametric tests in a randomized complete block design. (English summary) **2004c:62110**

Mugdadi, Abdel-Razzaq (*with* Munthali, Emmie) Relative efficiency in kernel estimation of the distribution function. (English summary)

Müller, Samuel Tail estimation based on numbers of near m-extremes. (English summary) **2004h:62092**

Munthali, Emmie *see* **Mugdadi, Abdel-Razzaq**

Nadaraya, È. A. *see* **Absava, R. M. et al.**

Nadaraya, L. È. *see* **Absava, R. M. et al.**

Neuhaus, Georg (*with* Heimann, Günter; Zhu, Li-Xing) Optimal tests for carcinogenicity in a model with fatal and incidental tumours. (English summary) **2004j:62097**

Nicoleris, Theodoros (*with* Walker, Stephen G.) On Hellinger consistent density estimation. (English summary) **2004k:62077**

Nielsen, Jens Perch *see* **Mammen, Enno, 2004j:62074**

Niu, Si-li (*with* Liu, Ya-mei) Consistency estimate for semiparametric regression model with negatively associated error's structure. (English and Chinese summaries) **2004b:62094**

Nomachi, Toshifumi (*with* Kondo, Masao; Yamato, Hajime) Higher order efficiency of linear combinations of U-statistics as estimators of estimable parameters. (English summary) **2004b:62095**

Oja, Hannu *see* **Möttönen, Jyrki et al., 2004c:62110**

Ould-Saïd, Elias *see* **Lemdani, Mohamed, 2004d:62140**

Park, Byeong U. *see* **Eguchi, Shinto et al., 2004j:62083**

Park, Cheol-Woo (*with* Kim, Woo-Chul) Estimation of a regression function with a sharp change point using boundary wavelets. (English summary) **2004m:62088**

Pearn, Wen-Lea *see* **Lin, Guo Hua, 2004a:62192**

Peng, Liang *see* **Gomes, M. Ivette et al., 2004g:62101** *and* **Ferreira, Ana et al., 2004k:62138**

Pérez, C. Iglesias Strong representation of a conditional quantile function estimator with truncated and censored data. (English summary) **2004i:62072**

Pfanzagl, J. An alternative approach to asymptotic optimality. (English summary) **2004h:62068**

Picek, Jan *see* **Jurečková, Jana et al., 2004j:62092**

Piterbarg, V. I. (*with* Tyurin, Yu. N.) Multivariate rank correlations: a Gaussian field on a direct product of spheres. (Russian. Russian summary) **2004h:60081**
Plante, Jean-François *see* **Genest, Christian, 2004d:62207**
Poggi, Jean-Michel *see* **Chèze-Payaud, Nathalie et al., 2004e:62083**
Politis, Konstadinos Semiparametric estimation for non-ruin probabilities. (English summary) **2004b:62096**
Portier, Bruno *see* **Chèze-Payaud, Nathalie et al., 2004e:62083**
Qin, Gengsheng (*with* Tsao, Min) Empirical likelihood inference for median regression models for censored survival data. (English summary) **2004d:62335**
Ramamoorthi, R. V. *see* **Ghosh, Jayanta K., 2004g:62004**
Rémillard, Bruno *see* **Abdous, Belkacem et al., 2004k:62127**
Ritov, Ya'acov *see* **Bickel, Peter J., 2004f:62098**
Rolin, Jean-Marie *see* **Bouezmarni, Taoufik, 2004b:62103**
Rosalsky, Andrew *see* **Csörgő, Sándor, 2004i:60034**
Rosenblatt, Murray *see* **Lii, Keh-Shin, 2004i:62168**
Roussas, George G. Fixed design regression under association. (English summary) **2004g:62080**
Rüschendorf, Ludger *see* **Döhler, Sebastian, 2004d:62332**
Sain, Stephan R. A new characterization and estimation of the zero-bias bandwidth. (English summary) **2004a:62086**
Sakhanenko, Lyudmila *see* **Giné, Evarist et al., 2004k:62119**
Saracco, Jérôme *see* **Gannoun, Ali et al., 2004b:62211**
Sarda, Pascal *see* **Cardot, Hervé et al.**
Sato, Yoshiharu *see* **Yoshida, Kiyotaka et al., 2004b:62147**
Schick, Anton (*with* Wefelmeyer, Wolfgang) Efficient estimation in invertible linear processes. (English summary) **2004g:62151**
Sen, Pranab Kumar[1] *see* **Jurečková, Jana et al., 2004j:62092**
Serfling, Robert A depth function and a scale curve based on spatial quantiles. (English summary) **2004m:62125**
— Generalized quantile processes based on multivariate depth functions, with applications in nonparametric multivariate analysis. (English summary) **2004c:62123**
— Nonparametric multivariate descriptive measures based on spatial quantiles. (English summary)
Singh, Kesar (*with* Xie, Minge) Bootlier-plot—bootstrap based outlier detection plot. (English summary)
Slud, E. V. (*with* Vonta, Filia) Consistency of the NPML estimator in the right-censored transformation model. (English summary) **2004j:62075**
Song, Wei-xing *see* **Zhu, Li-Xing et al., 2004g:62095**
Spokoĭnyĭ, V. G. *see* **Goldenshluger, A., 2004k:44001**
Stamatović, Siniša Asymptotic behavior of a process specified by an estimate of a spectral matrix function. (Russian. Russian summary) **2004j:60077**
Stepanov, Aleksei Vasil'evich Random intervals based on records. (English summary) **2004i:62100**
Sturgeon, Michael L. The use of variable kernel mass in density estimation. (English summary) **2004k:62123**
Subramanian, Sundarraman Semiparametric transformation models and the missing information principle. (English summary) **2004b:62099**
Sun, Xiaoqian (*with* You, Jin-hong) Iterative weighted partial spline least squares estimation in semiparametric modeling of longitudinal data. (English summary) **2004m:62092**
Taufer, Emanuele *see* **Jammalamadaka, Sreenivasa Rao, 2004k:62135**
Tenreiro, Carlos On the asymptotic normality of multistage integrated density derivatives kernel estimators. (English summary) **2004b:62070**
Thode, Henry C., Jr. ★ Testing for normality. **2004d:62003**
Tocquet, Anne-Sophie *see* **Durot, Cécile, 2004f:62044**
Tran, Lanh T. *see* **Hallin, Marc et al., 2004i:62080**
Tsao, Min *see* **Qin, Gengsheng, 2004d:62335**
Tyler, David E. High breakdown point multivariate M-estimation. (English summary) **2004i:62074**
— *see also* **Chen, Zhiqiang[1], 2004f:62125**
Tyurin, Yu. N. *see* **Piterbarg, V. I., 2004h:60081**
Utzet, Frederic *see* **Buldygin, Valerii V. et al., 2004k:62102**
van der Vaart, Aad W. *see* **Ghosal, Subhashis et al., 2004j:62100**
Veraverbeke, Noël *see* **Braekers, Roel, 2004d:62171**
Vieu, Philippe *see* **Ferraty, Frédéric et al., 2004a:60084**
Vonta, Filia *see* **Slud, E. V., 2004j:62075**
Walker, Stephen G. *see* **Nicoleris, Theodoros, 2004k:62077**
Wang, Ch'ing Yün *see* **Huang, Yang Xin**
Wang, Naisyin Marginal nonparametric kernel regression accounting for within-subject correlation. (English summary) **2004b:62100**
Wefelmeyer, Wolfgang *see* **Schick, Anton, 2004g:62151**
Werker, Bas J. M. *see* **Genest, Christian**
de Wolf, P. P. *see* **Groeneboom, P. et al., 2004i:62065**
Worms, Rym *see* **Diebolt, Jean et al., 2004f:60117**
Wu, Changbao *see* **Chen, Jiahua, 2004j:62066**
Wu, Guo Fu *see* **Zhou, Yong[2] et al., 2004k:62114**
Xie, Minge *see* **Singh, Kesar**
Yamato, Hajime *see* **Nomachi, Toshifumi et al., 2004b:62095**
Yang, Shan Chao Consistency of the nearest neighbor estimator of the density function for negatively associated samples. (Chinese. English and Chinese summaries) **2004i:62083**
Yavorskiĭ, I. N. (*with* Mikhaĭlishin, V. Yu.; Zabolotniĭ, O. V.) Least squares method for statistical analysis of polyrhythmics. (English summary) **2004i:62075**
Yoshida, Kiyotaka (*with* Imai, Hideyuki; Sato, Yoshiharu) New criteria for tests of dimensionality under elliptical populations. (English summary) **2004b:62147**
You, Jin-hong *see* **Sun, Xiaoqian, 2004m:62092**
Zabolotniĭ, O. V. *see* **Yavorskiĭ, I. N. et al., 2004i:62075**
Zayats, Vladimir *see* **Buldygin, Valerii V. et al., 2004k:62102**
Zerom, Dawit *see* **De Gooijer, Jan G., 2004k:62120**
Zhang, Chunming M. Adaptive tests of regression functions via multiscale generalized likelihood ratios. (English and French summaries) **2004h:62088**
Zhou, Yong[2] (*with* Wu, Guo Fu; Jiang, Xue Lei) Asymptotic behavior of the Lipschitz-1/2 modulus of the PL-process for truncated and censored data. (English summary) **2004k:62114**
— (*with* Liang, Hua) Asymptotic properties for L_1 norm kernel estimator of conditional median under dependence. (English summary) **2004d:62146**
Zhu, Li-Xing (*with* Song, Wei-xing; Cui, Heng-jian) Testing lack-of-fit for a polynomial errors-in-variables model. (English summary) **2004g:62095**
— *see also* **Neuhaus, Georg et al., 2004j:62097**
Ziegler, Klaus On the asymptotic normality of kernel regression estimators of the mode in the nonparametric random design model. (English summary) **2004c:62096**
Zitikis, Ričardas Large sample estimation of a family of economic inequality indices. (English summary) **2004a:62102**
— *see also* **Helmers, Roelof et al., 2004a:60095**
Zuo, Yi-jun Multivariate trimmed means based on data depth. (English summary) (*see* **2004d:62007**)
— (*with* Cui, Heng-jian) Statistical depth functions and some applications. (English and Chinese summaries)

62G30 Order statistics; empirical distribution functions

Aban, Inmaculada B. (*with* Meerschaert, Mark M.) Generalized least-squares estimators for the thickness of heavy tails. (English summary) **2004j:62103**
Adeyemi, S. Some recurrence relations for single and product moments of order statistics from the generalized Pareto distribution. (English summary) **2004f:62115**
Adler, André Limit theorems for arrays of maximal order statistics. (English summary) **2004c:62113**
Aggarwala, Rita (*with* Lamoureux, Michael P.) Moments of order statistics—from even to odd sample sizes. (English summary) **2004m:62115**
Ahsanullah, Mohammad (*with* Malov, S. V.) On characterizations via linear regression properties of generalized order statistics. (English summary) **2004j:62104**
Avérous, Jean Quantile functions and spread for multivariate distributions. (English summary) **2004f:62116**
Bairamov, Ismihan *see* **Eryılmaz, S., 2004d:62184**
Balakrishnan, Narayanaswamy *see* **Lien, Da-Hsiang Donald, 2004b:62135**
Balasubramanian, Krishnaswami (*with* Beg, M. I.) On special linear identities for order statistics. (English summary) **2004f:62117**
— (*with* Beg, M. I.) Identities in order statistics—from moments to arbitrary distributions. (English summary) **2004m:62116**
Barakat, Haroon Mohamed (*with* Nigm, E. M.) Extreme order statistics under power normalization and random sample size. (English and Arabic summaries) **2004g:62097**
— (*with* Nigm, E. M.) Some asymptotic stability properties of extreme order statistics under power normalization. (English and Arabic summaries) **2004j:62105**
— (*with* El-Shandidy, M. A.) A note on the confidence region for the bivariate co-ordinate-wise quantiles for bivariate data. (English summary) **2004b:62132**
Barme-Delcroix, Marie-Francoise (*with* Gather, Ursula) An isobar-surfaces approach to multidimensional outlier-proneness. (English summary) **2004e:62099**
Beg, M. I. *see* **Balasubramanian, Krishnaswami, 2004f:62117** *and* **2004m:62116**
Beghin, Luisa Weak convergence of some randomly indexed empirical processes. (English summary) **2004d:62183**
Begum, Anjuman Ara (*with* Parvin, Shahena) Moments of order statistics from doubly truncated Burr XII distribution. (English summary) **2004f:62118**
— Concomitants of order statistics from generalized bivariate Burr XII distribution. (English summary)
— Concomitants of order statistics from generalized bivariate Burr III distribution. (English summary)
Berkes, István (*with* Horváth, Lajos) Empirical processes of residuals. (English summary) **2004i:62099**
Bickis, Mikelis G. The asymptotic distribution of spacings of order statistics. (English summary) (*see* **2004k:62018**)
Bieniek, Milena (*with* Szynal, Dominik) A contribution to results on random partitions of the segment. (English summary) **2004m:62117**
Breidt, F. Jay Simulation estimation of quantiles from a distribution with known mean. (English summary)
Brown, Edward F. *see* **Hassanein, K. M.**
Burkschat, Marco (*with* Cramer, Erhard; Kamps, Udo) Dual generalized order statistics. (English summary) **2004g:62098**
Calik, Sinan On the expected values of the sample maximum of order statistics from a discrete uniform distribution. (English summary)
Chang, Kuo-Hwa *see* **Chen, Huifen et al.**
Chen, Huifen (*with* Chang, Kuo-Hwa; Cheng, Liuying) Estimation of means and covariances of inverse-Gaussian order statistics. (English summary)
Chen, Lin-An (*with* Welsh, A. H.) Distribution-function-based bivariate quantiles. (English summary) **2004b:62133**
— *see also* **Shiau, Jyh-Jen Horng**
Cheng, Guo-dong *see* **Li, Xiao Hu**
Cheng, Liuying *see* **Chen, Huifen et al.**
Childs, Aaron Higher order moments of order statistics from INID exponential random variables. (English summary) **2004b:62134**
Cramer, Erhard *see* **Burkschat, Marco et al., 2004g:62098**
Csörgő, Sándor Rényi confidence bands. (Hungarian. English summary) **2004g:62099**
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Doksum, Kjell A. *see* **Jiang, Jiancheng, 2004m:62120**
El-Shandidy, M. A. *see* **Barakat, Haroon Mohamed, 2004b:62132**
Eryılmaz, S. Random threshold models based on multivariate observations. (English summary) **2004e:62102**
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Ferger, Dietmar The exact distribution of the maximizing point of the two-sample empirical process. (English summary) **2004a:62098**
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Ferreira, José António Sousa Jorge An empirical process with applications to testing the exponential and geometric models. (English summary) **2004d:62185**
Fortiana, J. *see* **Grané, A.**
Gather, Ursula *see* **Barme-Delcroix, Marie-Francoise**, **2004e:62099**
Giraitis, Liudas (*with* Surgailis, Donatas) The reduction principle for the empirical process of a long memory linear process. (English summary) **2004a:62099**
Girard, Stéphane A Hill type estimator of the Weibull tail-coefficient. (English summary) **2004m:62118**
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Hassanein, K. M. (*with* Brown, Edward F.) Estimation of bonferroni and total time on test curve using optimally selected order statistics in large samples. (English summary)
Horváth, Lajos (*with* Jach, Agnieszka; Kokoszka, P. S.) Change point detection based on empirical quantiles. (English summary) **2004f:62119**
— *see also* **Berkes, István**, **2004i:62099**
Hürlimann, Werner On the rate of convergence to asymptotic independence between order statistics. (English summary) **2004m:62119**
Jach, Agnieszka *see* **Horváth, Lajos et al.**, **2004f:62119**
Jaheen, Zeinhum F. On Bayesian prediction of generalized order statistics. (English summary)
Jamjoom, Amna *see* **Ragab, Aisha**
Jammalamadaka, Sreenivasa Rao (*with* Taufer, Emanuele) Testing exponentiality by comparing the empirical distribution function of the normalized spacings with that of the original data. (English summary) **2004k:62135**
Jiang, Jiancheng (*with* Doksum, Kjell A.) Local generalized empirical estimation of regression. (English summary) **2004m:62120**
Kamps, Udo *see* **Burkschat, Marco et al.**, **2004g:62098**
Kandel, Abraham *see* **Last, Mark**, (**2004a:62013**)
Khaledi, Baha-Eldin (*with* Kochar, Subhash C.) Stochastic orderings among order statistics and sample spacings. (English summary) **2004a:62100**
Khamdamov, I. M. *see* **Nagaev, A. V.**, **2004a:62101**
Kochar, Subhash C. *see* **Khaledi, Baha-Eldin**, **2004a:62100**
Kokoszka, P. S. *see* **Horváth, Lajos et al.**, **2004f:62119**
Koltchinskii, Vladimir *see* **Wellner, Jon A.**, (**2004j:60005**)
Kutoyants, Yurii (*with* Negri, I.) On L_2 efficiency of empiric distribution for ergodic diffusion processes. (Russian) **2004d:62186**
Lamoureux, Michael P. *see* **Aggarwala, Rita**, **2004m:62115**
La Rocca, Michele Bootstrap calibration and empirical likelihood in the logistic regression model. (English summary)
Last, Mark (*with* Kandel, Abraham) Fuzzy comparison of frequency distributions. (English summary) (*see* **2004a:62013**)
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Lien, Da-Hsiang Donald (*with* Balakrishnan, Narayanaswamy) Conditional correlation analysis of order statistics from bivariate normal distribution with an application to evaluating inventory effects in futures market. (English summary) **2004b:62135**
Malov, S. V. *see* **Ahsanullah, Mohammad**, **2004j:62104**
Meerschaert, Mark M. *see* **Aban, Inmaculada B.**, **2004j:62103**
Na, Jong-Hwa *see* **Park, Hyo-Il**, **2004c:62114**
Nagaev, A. V. (*with* Khamdamov, I. M.) On the role of extreme summands in the sum of random variables. (Russian. Russian summary) **2004a:62101**
Negri, I. *see* **Kutoyants, Yurii**, **2004d:62186**
Nigm, E. M. *see* **Barakat, Haroon Mohamed**, **2004g:62097** *and* **2004j:62105**
Pandey, Aparna *see* **Saran, Jagdish**, **2004b:62136**
Park, Hyo-Il (*with* Na, Jong-Hwa) Weak convergence of U-empirical processes for two sample case with applications. (English summary) **2004c:62114**
Parvin, Shahena *see* **Begum, Anjuman Ara**, **2004f:62118**
Picard, Philippe *see* **Denuit, Michel et al.**, **2004e:62101**
Pushkarna, Narinder *see* **Saran, Jagdish**, **2004e:62103**
Ragab, Aisha (*with* Jamjoom, Amna) Exact moments derivation of functions of order statistics from Burr type XII distribution. (English summary)
Raqab, Mohammad Z. Generalized exponential distribution: moments of order statistics. (English summary) **2004j:62106**
Ruymgaart, Frits Sample quantiles for locally dependent processes. (English summary) **2004k:62136**
Saporta, Gilbert (*with* Youness, Genane) Comparing two partitions: some proposals and experiments. (English summary) (*see* **2004a:62009**)
Saran, Jagdish (*with* Pushkarna, Narinder) Recurrence relations between product moments of order statistics for truncated distributions and their applications. (English summary) **2004e:62103**
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Sarkar, Sanat K. Some results on order statistics arising in multiple testing. (English summary) **2004b:62137**
Serfling, Robert Robust estimation via generalized L-statistics: theory, applications, and perspectives. (English summary) (*see* **2004a:62006**)
Shiau, Jyh-Jen Horng (*with* Chen, Lin-An) A multivariate parallelogram and its application to multivariate trimmed means. (English summary)
Skouras, Spyros An algorithm for computing estimators that optimize step functions. (English summary) **2004d:62187**
Stepanov, Aleksei Vasil'evich Random intervals based on records. (English summary) **2004i:62100**
Surgailis, Donatas *see* **Giraitis, Liudas**, **2004a:62099**
Szynal, Dominik *see* **Bieniek, Milena**, **2004m:62117**
Taufer, Emanuele *see* **Jammalamadaka, Sreenivasa Rao**, **2004k:62135**
Teugels, Józef L. (*with* Vanroelen, Giovanni) Convergence of ratios and differences of two order statistics. (English summary) **2004b:62138**
Umbach, Dale On the positivity of linear combinations of order statistics as estimators of scale. **2004d:62188**
Vanroelen, Giovanni *see* **Teugels, Józef L.**, **2004b:62138**
Wellner, Jon A. (*with* Koltchinskii, Vladimir) A note on the asymptotic distribution of Berk-Jones type statistics under the null hypothesis. (English summary) (*see* **2004j:60005**)
Welsh, A. H. *see* **Chen, Lin-An**, **2004b:62133**
Whittaker, Joe *see* **Ferré, L.**
Wu, Changbao Empirical likelihood method for finite populations. (English summary) (*see* **2004k:62018**)
Yoshihara, Ken-ichi Limit theorems for short distances under weak dependence. (English summary) **2004c:62115**
Youness, Genane *see* **Saporta, Gilbert**, (**2004a:62009**)
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Zhou, Yong[2] A note on oscillation modulus of PL-process and its applications under random censorship. (English summary) **2004e:62104**
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Items with secondary classifications in 62G30

Abu-Youssef, S. E. On characterization of certain distributions of record values. (English summary) **2004j:62107**
Adler, André Exact strong laws for sums from subsets of maximal order statistics. (English summary) **2004f:60060**
— Exact laws for sums of order statistics from a generalized Pareto distribution. (English summary) **2004m:60055**
Ahmad, Abd EL-Baset A. Characterizations of finite mixtures using moments and conditional moments of order statistics. (English summary) **2004i:62025**
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Ahsanullah, Mohammad (*with* Nevzorov, V. B.) ★ Ordered random variables. **2004j:62002**
Akhundov, Ilham *see* **Balakrishnan, Narayanaswamy**, **2004m:62101**
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Askar, M. M. *see* **Barakat, Haroon Mohamed et al.**, **2004j:60108**
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Balakrishnan, Narayanaswamy (*with* Akhundov, Ilham) A characterization by linearity of the regression function based on order statistics. (English summary) **2004m:62101**
Barakat, Haroon Mohamed (*with* Nigm, E. M.; Askar, M. M.) On the trivariate extreme value distributions. (English summary) **2004j:60108**
Barlevy, Gadi *see* **Nagaraja, H. N.**, **2004h:62025**
Basak, Prasanta An application of record range and some characterization results. (English summary) **2004f:62121**
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Berzin, Corinne (*with* León, José R.; Ortega, Joaquin) Convergence of non-linear functionals of smoothed empirical processes and kernel density estimates. (English summary) **2004e:62082**
Bordes, Laurent Non-parametric estimation under progressive censoring. (English summary) **2004h:62174**
Brill, P. H. *see* **Huang, Mei-Ling**[1], **2004d:62164**
Burke, M. D. Tests for a general two-sample problem using weighted spacings. (English summary) **2004b:62118**
Cabaña, A. (*with* Cabaña, E. M.) Tests of normality based on transformed empirical processes. (English summary) **2004j:62089**
Cabaña, E. M. *see* **Cabaña, A.**, **2004j:62089**
Chandra, S. Ajay Multi-sample problem for ARCH residual empirical processes. (English summary) **2004b:62119**
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Chen, Zehua *see* **Bai, Zhi Dong et al.**, **2004d:62128**
Cheng, Shihong (*with* Wang, Xiao Qian[2]; Yang, Jing-ping) On a kind of integrals of empirical processes concerning insurance risk. (English summary) **2004d:62180**
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Diebolt, Jean (*with* Garrido, Myriam; Girard, Stéphane) Asymptotic normality of the ET method—application to the ET test. (English and French summaries) **2004e:62092**
Doku, W. O. *see* **Swanepoel, Cornelia J.**
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El Barmi, Hammou (*with* Kochar, Subhash C.; Mukerjee, Hari; Samaniego, Francisco J.) Estimation of cumulative incidence functions in competing risks studies under an order

restriction. (English summary) **2004h:62059**
Fawzy, Mohammad A. *see* **Ahmad, Abd EL-Baset A., 2004e:62106**
Finch, Stephen J. *see* **Greenwell, Raymond N.**
Garrido, Myriam *see* **Diebolt, Jean et al., 2004e:62092**
Genest, Christian (*with* Plante, Jean-François) On Blest's measure of rank correlation. (English and French summaries) **2004d:62207**
Gilbert, Peter B. Goodness-of-fit tests for semiparametric biased sampling models. (English summary) **2004h:62061**
Giné, Evarist (*with* Guillou, Armelle) Rates of strong uniform consistency for multivariate kernel density estimators. (English and French summaries) **2004e:60059**
Girard, Stéphane *see* **Diebolt, Jean et al., 2004e:62092**
González-Barrios, José María Some notes on a dependency measure. (English summary) **2004m:60029**
González-Manteiga, Wenceslao *see* **Lombardía, M. J. et al., 2004m:62034**
Gracia-Medrano, L. (*with* O'Reilly, F. J.) Transformations for testing the fit of the inverse-Gaussian distribution. (English summary)
Graneri, Jorge χ^2-type goodness of fit test based on transformed empirical processes for location and scale families. (English summary)
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Groeneboom, P. (*with* Lopuhaä, H. P.; de Wolf, P. P.) Kernel-type estimators for the extreme value index. (English summary) **2004i:62065**
Guillou, Armelle *see* **Giné, Evarist, 2004e:60059**
Gutierrez, Genaro *see* **Paul, Anand, 2004i:91077**
Hawkins, Douglas M. *see* **Qiu, Peihua, 2004d:62353**
Henriques, Carla (*with* Oliveira, Paulo Eduardo) Estimation of a two-dimensional distribution function under association. (English summary) **2004b:62130**
Henze, Norbert (*with* Nikitin, Yakov) Two-sample tests based on the integrated empirical process. (English summary) **2004h:62086**
Huang, Mei-Ling[1] (*with* Brill, P. H.) A nonparametric regression method. (English summary) **2004d:62164**
Hung, Wen-Liang *see* **Wu, Jong-Wuu et al., 2004i:62056**
Hurvich, Clifford M. *see* **Chen, Willa W., 2004i:62061**
Hutson, Alan D. Nonparametric estimation of normal ranges given one-way ANOVA random effects assumptions. (English summary) **2004g:62073**
Iacus, Stefano Maria (*with* La Torre, Davide) Nonparametric estimation by iterated function systems and optimization problems. (English summary) **2004i:62066**
Ismatullaev, Shukhrat A. *see* **Mirakhmedov, Sherzod A. et al., 2004f:60051**
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Jammalamadaka, Sreenivasa Rao (*with* Mangalam, Vasudevan) Nonparametric estimation for middle-censored data. (English summary) **2004b:62092**
Jiang, Yi Wen (*with* Wu, Li Ming[1]) Hilbertian invariance principle for empirical process associated with a Markov process. (English summary) **2004i:60043**
Jones, Michael C. Families of distributions arising from distributions of order statistics. (English summary)
Kamps, Udo *see* **Cramer, Erhard, 2004k:62040**
Kantam, R. R. L. *see* **Rosaiah, K. et al.**
Khan, Abdul Hamid (*with* Athar, Haseeb) On characterization of distributions by conditioning on a pair of order statistics. (English summary) **2004a:62036**
Kim, Jang Han *see* **Kim, Tae Yoon et al., 2004d:60060**
Kim, Tae Yoon (*with* Kim, Jang Han; Lee, Tai Sup) A note on weak convergence of empirical processes for a stationary phi-mixing sequence. (English summary) **2004d:60060**
Knight, Keith What are the limiting distributions of quantile estimators? (English summary) **2004f:62045**
Kochar, Subhash C. *see* **El Barmi, Hammou et al., 2004h:62059**
Kozek, Andrzej S. (*with* Yin, Jiying) On Gauss quadrature and partial cross validation. (English summary) **2004m:62085**
Lachal, Aimé Bridges of certain Wiener integrals. Prediction properties, relation with polynomial interpolation and differential equations. Application to goodness-of-fit testing. (English summary) **2004e:60140**
Langerman, Stefan (*with* Steiger, William) Computing a high depth point in the plane. (English summary) **2004e:60021**
Lanzinger, H. (*with* Stadtmüller, Ulrich) Tauberian theorems and limit distributions for upper order statistics. (English summary) **2004k:40007**
La Torre, Davide *see* **Iacus, Stefano Maria, 2004i:62066**
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Lee, Jae Won[3] (*with* Shevlyakov, G. L.; Vil'chevskiĭ, N. O.) Estimation of probability characteristics by generalized Bernstein polynomials. (Russian summary) **2004h:62065**
Lee, Tai Sup *see* **Kim, Tae Yoon et al., 2004d:60060**
León, José R. *see* **Berzin, Corinne et al., 2004e:62082**
Leorato, S. (*with* Orsingher, Enzo; Scavino, M.) An alternating motion with stops and the related planar, cyclic motion with four directions. (English summary) **2004g:60132**
Leung, Denis H. Y. *see* **Chen, Song Xi et al., 2004k:62104**
Li, Linbo (*with* Tulino, Antonia Maria; Verdú, Sergio) Asymptotic eigenvalue moments for linear multiuser detection. (English summary) **2004i:94026**
Lifshits, Mikhail A. (*with* Shi, Zhan) Lower functions of an empirical process and of a Brownian sheet. (Russian. Russian summary) **2004m:60079**
Lombardía, M. J. (*with* González-Manteiga, Wenceslao; Prada-Sánchez, José Manuel) Bootstrapping the Chambers-Dunstan estimate of a finite population distribution function. (English summary) **2004m:62034**
Lopuhaä, H. P. *see* **Groeneboom, P. et al., 2004i:62065**
Louhichi, Sana *see* **Dedecker, Jérôme, 2004d:60055**
Lu, Jye-Chyi (*with* Peng, Liang) Likelihood based confidence intervals for the tail index. (English summary) **2004g:62103**
MacKay Altman, Rachel Assessing the goodness-of-fit of hidden Markov models. (English and French summaries)
Maiboroda, Rostislav E. Consistency of the weighted empirical distribution function based on the observations from mixtures with varying concentrations. (English summary) **2004j:62073**
Mallows, Colin L. Minimizing the expected minimum. (English summary) **2004b:60044**
Mangalam, Vasudevan *see* **Jammalamadaka, Sreenivasa Rao, 2004b:62092**
Manski, Charles F. *see* **Scharfstein, Daniel O. et al.**
Marohn, Frank Strong domain of attraction of extreme generalized order statistics. (English summary) **2004g:60078**
Mason, David M. A uniform functional law of the logarithm for a local Gaussian process. (English summary) **2004j:60072**
Massart, Pascal Tusnady's lemma, 24 years later. (English and French summaries) **2004g:60048**
Maswadah, M. Conditional confidence interval estimation for the inverse Weibull distribution based on censored generalized order statistics. (English summary) **2004j:62060**
Meintanis, Simos G. A class of omnibus tests for the Laplace distribution based on the empirical characteristic function. (English summary) **2004k:62130**
Mirakhmedov, Sherzod A. (*with* Ismatullaev, Shukhrat A.; Saidova, Odila A.) The estimation of the remainder in the CLT for ordered statistics in the scheme of sampling without replacement. (English summary) **2004f:60051**
Mukerjee, Hari *see* **El Barmi, Hammou et al., 2004h:62059**
Nagaraja, H. N. (*with* Barlevy, Gadi) Characterizations using record moments in a random record model and applications. (English summary) **2004h:62025**
— *see also* **David, H. A., 2004f:62007**
Narasimham, V. L. *see* **Rosaiah, K. et al.**
Nevzorov, V. B. *see* **Ahsanullah, Mohammad, 2004j:62002**
Nigm, E. M. *see* **Barakat, Haroon Mohamed et al., 2004j:60108**
Nikitin, Yakov *see* **Henze, Norbert, 2004h:62086**
Nikulin, Mikhail S. *see* **Zerbet, Aïcha, 2004b:62127**
Oliveira, Paulo Eduardo *see* **Henriques, Carla, 2004b:62130** *and* **Azevedo, Cecília, (2004i:00008)**
O'Reilly, F. J. *see* **Gracia-Medrano, L.**
Orsingher, Enzo *see* **Leorato, S. et al., 2004g:60132**
Ortega, Joaquín *see* **Berzin, Corinne et al., 2004e:62082**
Ottoy, J. P. *see* **Thas, O., 2004f:62109**
Papadatos, N. (*with* Papathanasiou, V.) Multivariate covariance identities with an application to order statistics. (English summary) **2004i:62105**
Papathanasiou, V. *see* **Papadatos, N., 2004i:62105**
Paul, Anand (*with* Gutierrez, Genaro) Mean sample spacings, sample size and variability in an auction-theoretic framework. (English summary) **2004i:91077**
Pawlas, Piotr (*with* Rychlik, Tomasz; Szynal, Dominik) On a characterization of distributions by expectations of transformed generalized order statistics. (English summary) **2004a:62037**
Peng, Liang (*with* Zhou, Xiao-Hua) Local linear smoothing of receiver operating characteristic (ROC) curves. (English summary) **2004m:62090**
— *see also* **Lu, Jye-Chyi, 2004g:62103**
Perron, François (*with* Sinha, Bimal K.) Estimation of variance based on a ranked set sample. (English summary) **2004m:62037**
Plante, Jean-François *see* **Genest, Christian, 2004d:62207**
Prada-Sánchez, José Manuel *see* **Lombardía, M. J. et al., 2004m:62034**
Qin, Jing[1] *see* **Chen, Song Xi et al., 2004k:62104**
Qiu, Peihua (*with* Hawkins, Douglas M.) A rank-based multivariate CUSUM procedure. (English summary) **2004d:62353**
Radulović, Dragan On the bootstrap and empirical processes for dependent sequences. (English summary) **2004a:62090**
Raqab, Mohammad Z. Order statistics and parameter estimation in the generalized lambda distribution. (English summary)
— p-norm bounds for moments of progressive type II censored order statistics. (English summary) **2004m:62209**
Rosaiah, K. (*with* Kantam, R. R. L.; Narasimham, V. L.) Linear estimation of location and scale parameters in reflected generalized gamma distribution. (English summary)
Ruiz, María-del-Carmen *see* **Belzunce, Félix et al., 2004d:60043**
Ruiz Gómez, José María *see* **Belzunce, Félix et al., 2004d:60043**
Rychlik, Tomasz *see* **Pawlas, Piotr et al., 2004a:62037** *and* **Danielak, Katarzyna, 2004e:60030**
Saidova, Odila A. *see* **Mirakhmedov, Sherzod A. et al., 2004f:60051**
Samaniego, Francisco J. *see* **El Barmi, Hammou et al., 2004h:62059**
Samuel, Philip (*with* Thomas, P. Yageen) Estimation of the parameters of triangular distribution by order statistics. (English summary)
Scavino, M. *see* **Leorato, S. et al., 2004g:60132**
Scharfstein, Daniel O. (*with* Manski, Charles F.; Anthony, James C.) On the construction of bounds in prospective studies with missing ordinal outcomes: application to the good behavior game trial. (English and French summaries)
Serfling, Robert Generalized quantile processes based on multivariate depth functions, with applications in nonparametric multivariate analysis. (English summary) **2004c:62123**
Sethuraman, Sunder A clustering law for some discrete order statistics. (English summary) **2004g:62104**
Shevlyakov, G. L. *see* **Lee, Jae Won**[3] **et al., 2004h:62065**
Shi, Zhan *see* **Lifshits, Mikhail A., 2004m:60079**
Simons, Gordon *see* **Csörgő, Sándor, 2004b:60063**
Sinha, Bimal K. *see* **Perron, François, 2004m:62037**
Stadtmüller, Ulrich *see* **Lanzinger, H., 2004k:40007**
Steiger, William *see* **Langerman, Stefan, 2004e:60021**
Swanepoel, Cornelia J. (*with* Doku, W. O.) New goodness-of-fit tests for the error distribution of autoregressive time-series models. (English summary)
Szynal, Dominik *see* **Pawlas, Piotr et al., 2004a:62037**
Talagrand, Michel An assignment problem at high temperature. (English summary) **2004c:82058**
Tang, N. Y. *see* **Yuen, Kam C. et al., 2004a:62188**
Thas, O. (*with* Ottoy, J. P.) Some generalizations of the Anderson-Darling statistic. (English summary) **2004f:62109**

Thomas, P. Yageen *see* **Samuel, Philip**
Tolmatz, Leonid The saddle point method for the integral of the absolute value of the Brownian motion. (English summary) **2004m:60178**
Tsai, Chih-Hui *see* **Wu, Jong-Wuu et al., 2004i:62056**
Tulino, Antonia Maria *see* **Li, Linbo et al., 2004i:94026**
Umbach, Dale An information approach to optimal spacings for estimation in location-scale models. (English summary)
Verdú, Sergio *see* **Li, Linbo et al., 2004i:94026**
Vil'chevskiĭ, N. O. *see* **Lee, Jae Won[3] et al., 2004h:62065**
Wang, Xiao Qian[2] *see* **Cheng, Shihong et al., 2004d:62180**
de Wolf, P. P. *see* **Groeneboom, P. et al., 2004i:62065**
Wu, Changbao Weighted empirical likelihood inference. (English summary) **2004j:62077**
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62G32 Statistics of extreme values; tail inference

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"Local dependence functions for extreme value distributions" Erratum: "Local dependence functions for extreme value distributions" [J. Appl. Stat. **30** (2003), no. 10, 1081–1100] by S. Nadarajah, K. Mitov, and S. Kotz.

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62G35 Robustness

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— *see also* **Filzmoser, Peter**, **2004i:62125** *and* **Ollila, Esa et al.**, **2004m:62134**
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– (*with* Cui, Heng-jian) Statistical depth functions and some applications. (English and Chinese summaries)

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Special Issue:
Robust statistics ★ Special issue on robust statistics.

62G99 None of the above, but in this section

Fernholz, Luisa Turrin Robustness issues regarding content-corrected tolerance limits. (English summary) (*see* **2004a:62010**)

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Baraud, Yannick (*with* Huet, Sylvie; Laurent, Béatrice) Adaptive tests of linear hypotheses by model selection. (English summary) **2004a:62091**
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62Hxx Multivariate analysis [see also 60Exx]

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Anderson, T. W. ★ An introduction to multivariate statistical analysis. **2004c:62001**

62H05 Characterization and structure theory

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Capitanio, Antonella *see* **Azzalini, Adelchi, 2004d:62193**
Castelo, Robert (*with* Siebes, Arno) A characterization of moral transitive acyclic directed graph Markov models as labeled trees. (English summary) **2004e:62120**
Castillo, Enrique F. *see* **Arnold, Barry C. et al., 2004e:62107**
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Cullis, Brian *see* **Thompson, Robin et al.**
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Frahm, Gabriel (*with* Junker, Markus; Szimayer, Alexander) Elliptical copulas: applicability and limitations. (English summary) **2004c:62121**
Gilmour, Arthur *see* **Thompson, Robin et al.**
Gower, John C. *see* **de Rooij, Mark**
Grimes, Carrie *see* **Donoho, David L., 2004e:62108**
Held, Leonhard Simultaneous posterior probability statements from Monte Carlo output. (English summary)
Hettmansperger, T. P. *see* **Nadar, M. et al., 2004h:62093**
Hirano, Katuomi *see* **Aki, Sigeo**
Hodoshima, Jiro Tail-thickness in terms of COV(X_i^2, X_p^2) in the class of elliptical distributions. (English summary) **2004k:62139**
Iyer, Srikanth K. (*with* Manjunath, D.) Correlated bivariate sequences for queueing and reliability applications. (English summary)
Jensen, D. R. On the monotone convergence of vector means. (English summary) **2004d:62196**
Junker, Markus *see* **Frahm, Gabriel et al., 2004c:62121**
Karagrigoriou, Alex (*with* Lee, Sangyeol) On the use of model selection in multivariate processes with applications in economics. (English summary) **2004i:62104**
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Koster, Jan T. A. Marginalizing and conditioning in graphical models. (English summary) **2004d:62197**
Kotz, Samuel *see* **Bairamov, Ismihan, 2004d:62194**
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Little, Roderick J. A. *see* **Tang, Gong et al., 2004j:62112**
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Mallick, Bani K. *see* **Kim, Hyoung-Moon, 2004c:62122**
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Mizera, Ivan On depth and deep points: a calculus. (English summary) **2004g:62105**
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Papathanasiou, V. *see* **Papadatos, N., 2004i:62105**
Pellegrini, Guido *see* **Pacini, B.**
Pérez-Abreu, Víctor *see* **Marron, J. S. et al.**
Qaqish, Bahjat F. A family of multivariate binary distributions for simulating correlated binary variables with specified marginal means and correlations. (English summary) **2004d:62198**
Quesada Molina, José Juan *see* **Nelsen, Roger B. et al.**
Quiroz, Adolfo J. *see* **Balakrishnan, Narayanaswamy**
Raghunathan, Trivellore E. *see* **Tang, Gong et al., 2004j:62112**
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Requena, F. (*with* Martín Ciudad, N.) The maximum probability $2 \times c$ contingency tables and the maximum probability points of the multivariate hypergeometric distribution. (English summary) **2004j:62110**
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Rodríguez Lallena, José Antonio *see* **Nelsen, Roger B. et al.**
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Sabatier, Robert *see* **Vivien, Myrtille**
Sarabia, José María *see* **Arnold, Barry C. et al., 2004e:62107**
Sen, Pranab Kumar[1] *see* **Owzar, Kouros**
Serfling, Robert A depth function and a scale curve based on spatial quantiles. (English summary) **2004m:62125**
– Generalized quantile processes based on multivariate depth functions, with applications in nonparametric multivariate analysis. (English summary) **2004c:62123**
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Shestakov, O. V. On the uniqueness of the reconstruction of the probability characteristics of multidimensional random functions from the probability characteristics of their projections. (Russian. Russian summary) **2004j:62111**
Siebes, Arno *see* **Castelo, Robert, 2004c:62120**
Singh, Kesar *see* **Liu, Regina Y. C. et al.**
Smith, Alison *see* **Thompson, Robin et al.**

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Srivastava, Deo Kumar *see* **Mudholkar, Govind S.**, (**2004a:62007**)
Szimayer, Alexander *see* **Frahm, Gabriel et al.**, **2004c:62121**
Tang, Gong (*with* Little, Roderick J. A.; Raghunathan, Trivellore E.) Analysis of multivariate missing data with nonignorable nonresponse. (English summary) **2004j:62112**
Teng, Julie H. *see* **Liu, Regina Y. C. et al.**
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Úbeda Flores, Manuel *see* **Nelsen, Roger B. et al.**
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Vivien, Myrtille (*with* Sabatier, Robert) A generalization of STATIS-ACT strategy: DO-ACT for two multiblocks tables. (English summary)
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Wong, Chi Song *see* **Masaro, Joe**, **2004b:62140**
Xia, Yingcun *see* **Čížek, Pavel**, (**2004k:62008**)
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Zhou, Yong[5] *see* **Chen, Ying Bao**
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Alegre, Antonio *see* **Ribas, Carmen et al.**, **2004e:62191**
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Alvo, M. *see* **Ratnarajah, T. et al.**
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Carley, H. (*with* Taylor, M. D.) A new proof of Sklar's theorem. (English summary)
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Cerioli, Andrea *see* **Atkinson, Anthony C. et al.**, **2004m:62001**
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Cheong, Young-Ho (*with* Provost, Serge B.) The distribution of functions of elliptically contoured vectors in terms of their Gaussian counterparts. (English summary) **2004b:60040**
Chiaromonte, Francesca *see* **Li, Bing[2] et al.**, **2004h:62078**
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Cook, R. Dennis *see* **Li, Bing[2] et al.**, **2004h:62078**
Cooke, Roger Marvin *see* **Kurowicka, Dorota**, **2004e:62113**
Cox, Trevor F. Multidimensional scaling in process control. (*see* **2004h:62006**)
Cuculescu, Ion (*with* Theodorescu, Radu) Are copulas unimodal? (English summary) **2004d:60026**
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Dijksterhuis, G. B. *see* **Gower, John C.**, **2004m:62005**
Enguix-González, A. *see* **Muñoz-Pichardo, J. M. et al.**
Erar, Aydın *see* **Özyurt, Özlem**
Falk, Michael Domain of multivariate attraction via angular decomposition. (English summary) **2004k:62137**
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Farver, Thomas B. *see* **Singh, Rajendra[3] et al.**
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Franses, Philip Hans *see* **Kippers, Jeanine et al.**
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González-Barrios, José María (*with* Ruiz-Velasco, Silvia) The application of a new dependency measure to principal component analysis. (English summary) **2004f:62132**
González-Farías, Graciela *see* **Díaz-García, José A.**, **2004j:62138**
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Gupta, Arjun K. (*with* Huang, Wen-Jang) Quadratic forms in skew normal variates. (English summary) **2004a:62105**
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Hara, Hisayuki Estimating a covariance matrix in Manova model. (English summary) **2004d:62092**
Harris, Ian R. *see* **Minhajuddin, Abu T. M. et al.**
Hauptman, Herbert A. *see* **Xu, Hongliang**
He, Ping[4] *see* **Peng, Jiang Yan**
Herman, Edwin *see* **Youn, Heekyung et al.**, **2004c:62212**
Huang, Wen-Jang *see* **Gupta, Arjun K.**, **2004a:62105**
Hürlimann, Werner Fitting bivariate cumulative returns with copulas. (English summary)
— On the rate of convergence to asymptotic independence between order statistics. (English summary) **2004m:62119**
Ibragimov, Rustam *see* **Sharakhmetov, Shaturgun**, **2004b:62035**
Iwunor, Charles C. O. A study of some properties of the Gumbel's bivariate exponential distribution. (English summary)
Jordanova, Pavlina K. Some results on bounded and infinitely divisible random vectors. (English and Bulgarian summaries) **2004i:60020**
Jung, Kang-Mo *see* **Kim, Myung Geun**
Kalla, Shyam L. *see* **Saxena, Ram Kishore et al.**, **2004h:33027**
Kaufmann, J. *see* **Lindsey, P. J.**
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Klebanov, Lev B. *see* **Belopol'skaya, Ya. I. et al.**, **2004d:62042**
Kopciuszewski, Paweł An extension of the factorization theorem to the non-positive case. (English summary) **2004j:62026**
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— *see also* **Bairamov, Ismihan**, **2004f:62033**
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Krzanowski, W. J. Biplots for multifactorial analysis of distance. (English and French summaries)
Kukk, Anneli *see* **Traat, Imbi**, **2004b:62022**
Kurowicka, Dorota (*with* Cooke, Roger Marvin) A parameterization of positive definite matrices in terms of partial correlation vines. (English summary) **2004e:62113**
Lal, Krishan *see* **Singh, Rajendra[3] et al.**
Le Caër, Gérard (*with* Delannay, Renaud) The distributions of the determinant of fixed-trace ensembles of real-symmetric and of Hermitian random matrices. (English summary) **2004h:15008**
Lehtilä, Kari *see* **Pineda-Krch, Mario**
Lejay, Antoine *see* **Pastur, Leonid**, **2004c:15042**
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Li, Guo Ying[1] *see* **Tian, Maozai**, **2004i:62131**
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Li, Xin[3] (*with* Mikusiński, P.; Taylor, M. D.) Remarks on convergence of Markov operators. (English summary) **2004b:62033**
Lindsey, P. J. (*with* Kaufmann, J.) Analysis of a longitudinal ordinal response clinical trial using dynamic models. (English summary)

Mádi-Nagy, Gergely (*with* Prékopa, András) A multivariate utility function. (Hungarian. English and Hungarian summaries) **2004k:91074**
Malinowski, Marek T. (*with* Misiewicz, Jolanta K.) On the Dugué problem with a solution in the set of signed measures. (English summary) **2004g:60027**
Mallik, Ranjan K. On multivariate Rayleigh and exponential distributions. (English summary) **2004d:60031**
Mallows, Colin L. Minimizing the expected minimum. (English summary) **2004b:60044**
Marín-Solano, Jesús *see* **Ribas, Carmen et al., 2004e:62191**
Martins, A. P. *see* **Ferreira, Helena**
Maslov, V. P. Methods of quantum statistics from the standpoint of probability theory. I. (Russian. Russian summary) **2004i:82006**
Mata, Ana J. Asymptotic dependence of reinsurance aggregate claim amounts. (English summary) **2004k:62248**
Mavrikiou, Petroula M. *see* **Christofides, Tasos C., 2004h:60030**
Meng, Daniel (*with* von Rosen, Dietrich) Bonferroni-type bounds of degree three. (English summary) **2004f:60043**
Merola, Giovanni (*with* Abraham, Bovas) Dimension reduction methods used in industry. (*see* **2004h:62006**)
Mikusiński, P. *see* **Li, Xin[3] et al., 2004b:62033**
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Misiewicz, Jolanta K. *see* **Malinowski, Marek T., 2004g:60027**
Mouchart, Michel (*with* Sanmartin, Esperanza) Specification and identification issues in models involving a latent hierarchical structure. (English summary) **2004d:62014**
Müller, Hans-Georg *see* **Chiou, Jeng-Min et al., 2004d:62161**
Muñoz-Garcia, J. *see* **Muñoz-Pichardo, J. M. et al.**
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Nagar, Daya K. *see* **Sánchez, Luz Estela, 2004c:62038**
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Nelsen, Roger B. Concordance and copulas: a survey. (English summary)
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Neudecker, Heinz On two matrix derivatives by Kollo and von Rosen. (English and Spanish summaries) **2004k:62142**
Nevzorov, V. B. *see* **Balakrishnan, Narayanaswamy, 2004e:62001**
Nguyen, Danh V. (*with* Rocke, David M.) On partial least squares dimension reduction for microarray-based classification: a simulation study. (English summary)
van Nierop, Erjen *see* **Kippers, Jeanine et al.**
Oakes, David (*with* Wang, Antai) Copula model generated by Dabrowska's association measure. (English summary) **2004b:62219**
Özyurt, Özlem (*with* Erar, Aydın) Multivariate calibration in linear regression and its application. (English summary)
Paap, Richard *see* **Kippers, Jeanine et al.**
Papageorgiou, H. *see* **Piperigou, Violetta E., 2004k:60037**
Park, Byeong U. *see* **Hall, Peter G. et al., 2004c:62103**
Pascual-Acosta, A. *see* **Muñoz-Pichardo, J. M. et al.**
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Peng, Jiang Yan (*with* He, Ping[4]) Depiction of multivariate life distribution based on conditional failure rate functions. (Chinese. English and Chinese summaries)
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Piperigou, Violetta E. (*with* Papageorgiou, H.) On truncated bivariate discrete distributions: a unified treatment. (English summary) **2004k:60037**
Prékopa, András *see* **Mádi-Nagy, Gergely, 2004k:91074**
Press, S. James The role of Bayesian and frequentist multivariate modeling in statistical data mining. (English summary) (*see* **2004j:62012**)
Provost, Serge B. *see* **Cheong, Young-Ho, 2004b:60040**
Pukkila, Tarmo *see* **Koreisha, Sergio G.**
Quesada Molina, José Juan (*with* Rodríguez Lallena, José Antonio; Úbeda Flores, Manuel) What are copulas? (English summary) (*see* **2004h:00021**)
— *see also* **Nelsen, Roger B. et al., 2004j:60031**
Quiroz, Adolfo J. *see* **Brito, María R., 2004k:62019**
Ram, Chena *see* **Saxena, Ram Kishore et al., 2004h:33027**
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Reiss, Rolf-Dieter *see* **Falk, Michael, 2004i:62108**
Resnick, Sidney I. Hidden regular variation, second order regular variation and asymptotic independence. (English summary) **2004g:60083**
Riani, Marco *see* **Atkinson, Anthony C. et al., 2004m:62001**
Ribas, Carmen (*with* Marín-Solano, Jesús; Alegre, Antonio) On the computation of the aggregate claims distribution in the individual life model with bivariate dependencies. (English summary) **2004e:62191**
Rocke, David M. *see* **Nguyen, Danh V.**
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— *see also* **Nelsen, Roger B. et al., 2004j:60031** *and* **Quesada Molina, José Juan et al., (2004h:00021)**
Romain, Yves Perturbation of functional tensors with applications to covariance operators. (English summary) **2004d:47047**
von Rosen, Dietrich *see* **Meng, Daniel, 2004f:60043**
Roy, Dilip A characterization of model approach for generating bivariate life distributions using reversed hazard rates. (English summary) **2004a:62186**
Ruiz-Velasco, Silvia *see* **González-Barrios, José María, 2004f:62132**
Russo, Massimo Alfonso Statistical indicators for evaluating the quality of university teaching: a methodological proposal. (Italian. English and Italian summaries)
Ruzankin, P. S. Construction of an optimal joint distribution of two random variables. (Russian. Russian summary) **2004e:62027**
Samawi, Hani M. *see* **Ahmed, Md. Saleh et al.**
Sancetta, Alessio (*with* Satchell, Stephen) The Bernstein copula and its applications to modeling and approximations of multivariate distributions. (English summary) **2004m:62136**
Sánchez, Luz Estela (*with* Nagar, Daya K.) Non-central matrix-variate Dirichlet distribution. (English summary) **2004c:62038**
Sankaran, P. G. *see* **Asha, G. et al., 2004c:62201**
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Lahiri, Soumendra N. *see* **Lee, Yoon Dong**, **2004d:62201**
Lawson, Andrew B. *see* **Clark, A. B.**, (**2004f:62020**)
Lee, Eun-Kyung *see* **Lee, Yoon Dong**, **2004f:62124**
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62H12 Estimation

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Lu, Jye-Chyi *see* **Huo, Xiaoming**
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Möttönen, Jyrki *see* **Koshevoĭ, G. A. et al., 2004h:62102**
Mukhopadhyay, Nitis (*with* Cicconetti, Greg; Son, Mun S.; Ko, Yong C.) Multi-step sequential and accelerated sequential methodologies for a replicable linear model. (English summary)
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Oktaba, Wiktor The general multivariate Gauss-Markov model of the incomplete block design. (English summary) **2004c:62128**
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Ollila, Esa (*with* Oja, Hannu; Croux, Christophe) The affine equivariant sign covariance matrix: asymptotic behavior and efficiencies. (English summary) **2004m:62134**
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Pommeret, Denys A construction of the UMVU estimator for simple quadratic natural exponential families. (English summary) **2004b:62144**
Qiao, Ke Lin *see* **Zhang, Huai Xiong et al.**
Qiu, Peihua The local piecewisely linear kernel smoothing procedure for fitting jump regression surfaces. (English summary) **2004k:62148**
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Ruppert, David *see* **Yu, Yan**[2], **2004m:62137**
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Schokkaert, Erik *see* **Dhaene, Geert et al., 2004f:62126**
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Stenseth, Nils Chr. *see* **Zhang, Wenyang et al., 2004i:62113**
Stylianou, S. *see* **Georgiou, Stelios et al.**
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Tan, Zhi Ping *see* **Miao, Bai Qi et al., 2004m:62133**
Thomas, P. Yageen *see* **Samuel, Philip**
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Tyler, David E. *see* **Chen, Zhiqiang[1], 2004f:62125**
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Vardi, Yehuda *see* **Tian, Xin et al., (2004d:62007)**
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Balakrishnan, Narayanaswamy *see* **Ng, H. K. T. et al., 2004e:62047**
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Brezger, Andreas *see* **Lang, Stefan[2]**
Brooks, Stephen P. *see* **King, Ruth, 2004j:62218**
Buttlar, William G. *see* **Lin, Nan et al.**
Cadre, Benoît *see* **Abraham, Christophe et al., 2004c:62085**
Cai, Jianwen *see* **Yin, Guosheng et al., 2004f:62190**
Calzolari, Giorgio *see* **Fiorentini, Gabriele et al., 2004h:62155**
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Fujikoshi, Yasunori Selection of variables for discriminant analysis in a high-dimensional case. (English summary) **2004k:62157**
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Gelfand, Alan E. *see* **Carlin, Bradley P. et al., (2004m:62011)**
Geng, Zhi *see* **Ma, Wen-Qing et al., 2004h:62151**
Gilmour, Arthur *see* **Thompson, Robin et al.**
Girard, Stéphane *see* **Gannoun, Ali et al.**
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Guinot, Christiane *see* **Gannoun, Ali et al.**
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Hall, Peter G. *see* **Cheng, Ming-Yen, 2004h:62077**
Härdle, Wolfgang *see* **Yang, Lijian et al., 2004j:62082**
He, Chong Z. *see* **Woodard, Roger et al., 2004j:62056**
He, Xuming *see* **Lin, Nan et al.**
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Herman, Gabor T. *see* **Liao, Hstau Y.**
Hobza, T. *see* **Berlinet, Alain et al., 2004i:62076**
Hong, Yu-zheng Local optimization of observed points with no need to observations. (English summary)
Howlett, Phil G. *see* **Torokhtiĭ, A. P., 2004e:62116**
Hu, Yong-Hua *see* **Ma, Wen-Qing et al., 2004h:62151**
Hurn, Stan *see* **Clements, Adam et al., 2004k:62118**
Inoue, Atsushi[4] *see* **Hall, Alastair R. et al., 2004h:62042**
Kärkkäinen, Salme ★ Orientation analysis of stochastic fibre systems with an application to paper research. (English and Finnish summaries) **2004e:62174**
Kauermann, Göran (*with* Opsomer, J. D.) Local likelihood estimation in generalized additive models. (English summary) **2004d:62166**
Khan, Shahjahan A note on an optimal tolerance region for the class of multivariate elliptically contoured location-scale model. (English summary) **2004a:62072**
Kibria, B. M. Golam Robust predictive inference for the multivariate linear model. (English summary)
Kim, Jinheum *see* **Yin, Guosheng et al., 2004f:62190**
Kim, Yoon Tae (*with* Park, Hyun Suk) Parameter estimation for a Hilbert space-valued stochastic differential equation. II. (English summary) **2004g:62054**
King, Ruth (*with* Brooks, Stephen P.) Closed-form likelihoods for Arnason-Schwarz models. (English summary) **2004j:62218**
Kneip, Aloïs (*with* Utikal, Klaus J.) Inference for density families using functional principal component analysis. (English summary) **2004d:62154**
Kocić, Ljubiša M. *see* **Milošević, Dušan M., 2004m:62015**

Koivunen, Visa *see* **Ollila, Esa et al., 2004a:62064**
Kuna-Broniowska, Izabela Covariance analysis of hierarchical classification in split plot design with respect to the control. (English summary)
Kundu, Debasis *see* **Ng, H. K. T. et al., 2004e:62047**
van der Laan, Mark J. *see* **Molinaro, Annette M. et al.**
Lamminen, Jouko *see* **Tamminen, Toni, (2004g:62009)**
Lang, Joseph B. Multinomial-Poisson homogeneous models for contingency tables. (English summary) **2004k:62153**
Lang, Stefan[2] (*with* Brezger, Andreas) Bayesian P-splines. (English summary)
Lee, Jae Won[3] *see* **Shevlyakov, G. L., 2004d:62121**
Lesaffre, Emmanuel *see* **Bogaerts, Kris**
Li, Quan-Lin (*with* Wang, Guang Hui[2]; Zhou, Yuan) Symmetric PH and EP distributions and their applications to the probability Hough transform. (English summary)
Li, Ta-Hsin *see* **Oh, Hee-Seok, 2004k:62144**
Liao, Hstau Y. (*with* Herman, Gabor T.) Automated estimation of the parameters of Gibbs priors to be used in binary tomography.
Lin, Nan (*with* Bailey, Barbara A.; He, Xuming; Buttlar, William G.) Adjustment of measuring devices with linear models. (English summary)
Lindsay, Kenneth *see* **Clements, Adam et al., 2004k:62118**
Little, Roderick J. A. *see* **Tang, Gong et al., 2004j:62112**
Liu, Jin Shan[1] Two-stage estimators of seemingly unrelated regressions with elliptical distribution. (English summary) **2004c:62063**
Lohr, Sharon L. (*with* Narashimha Prasad, N. G.) Small area estimation with auxiliary survey data. (English and French summaries) **2004k:62037**
Love, Robert F. *see* **Üster, Halit**
Ma, Wen-Qing (*with* Geng, Zhi; Hu, Yong-Hua) Identification of graphical models for nonignorable nonresponse of binary outcomes in longitudinal studies. (English summary) **2004h:62151**
Machado, José A. F. (*with* Portugal, Pedro) Exploring transition data through quantile regression methods: an application to U.S. unemployment duration. (English summary) (*see* **2004d:62007**)
Marchand, Eric *see* **Fourdrinier, Dominique et al., 2004j:62037**
Marin, Jean-Michel (*with* Dhorne, Thierry) Optimal quadratic unbiased estimation for models with linear Toeplitz covariance structure. (English summary) **2004b:62166**
Maronna, Ricardo A. Robust estimates for high dimensional data based on projections. (English summary)
Matzkin, Rosa L. Nonparametric estimation of nonadditive random functions. (English summary) **2004g:62074**
Militino, Ana F. (*with* Palacios, M. Blanca; Ugarte, M. Dolores) Robust trend parameters in a multivariate spatial linear model. (English summary)
Milošević, Dušan M. (*with* Kocić, Ljubiša M.) Fractal surfaces levelling. (English summary) **2004m:62015**
Mohammad-Djafari, Ali *see* **Snoussi, Hichem, 2004a:62065**
Moklyachuk, Mikhail P. (*with* Shchestyuk, Natalīya Yu.) On robust estimates for random fields. (Ukrainian. English and Ukrainian summaries) **2004j:60105**
Molinaro, Annette M. (*with* Dudoit, Sandrine; van der Laan, Mark J.) Tree-based multivariate regression and density estimation with right-censored data. (English summary)
Mugglin, Andrew S. *see* **Carlin, Bradley P. et al., (2004m:62011)**
Müller, Hans-Georg *see* **Facer, Matthew R., 2004g:62088**
Nagao, Hisao On the second order approximation of the risk of sequential point estimation in a multivariate analysis. (English summary) **2004b:62185**
Narashimha Prasad, N. G. *see* **Lohr, Sharon L., 2004k:62037**
Ng, H. K. T. (*with* Kundu, Debasis; Balakrishnan, Narayanaswamy) Modified moment estimation for the two-parameter Birnbaum-Saunders distribution. (English summary) **2004e:62047**
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Oh, Hee-Seok (*with* Li, Ta-Hsin) Estimation of global temperature fields from scattered observations by a spherical-wavelet-based spatially adaptive method. (English summary) **2004k:62144**
Oja, Hannu *see* **Ollila, Esa et al., 2004a:62064**
Oliveira, M. R. (*with* Branco, J. A.) Comparison of three methods for robust redundancy analysis. (English summary) (*see* **2004a:62010**)
Ollila, Esa (*with* Oja, Hannu; Koivunen, Visa) Estimates of regression coefficients based on lift rank covariance matrix. (English summary) **2004a:62064**
Opsomer, J. D. *see* **Kauermann, Göran, 2004d:62166**
Ouassou, Idir *see* **Fourdrinier, Dominique et al., 2004d:62089**
Ousingsawat, Jarurat (*with* Campbell, Mark E.) On-line estimation and path planning for multiple vehicles in an uncertain environment. (English summary)
Palacios, M. Blanca *see* **Militino, Ana F. et al.**
Pan, Jian-Xin (*with* Fang, Kai-Tai) ★ Growth curve models and statistical diagnostics. (English summary) **2004m:62008**
Papanicolaou, George *see* **Borcea, Liliana et al., 2004a:62120**
Park, Hyun Suk *see* **Kim, Yoon Tae, 2004g:62054**
Peixe, Fernanda P. M. *see* **Hall, Alastair R. et al., 2004h:62042**
Pham Dinh Tuan (*with* Roy, Roch; Cédras, Lyne) Tests for non-correlation of two cointegrated ARMA time series. (English summary) **2004h:62163**
Politis, Dimitris N. *see* **Vrontos, I. D. et al.**
Polzehl, Jörg (*with* Spokoĭnyĭ, V. G.) Image denoising: pointwise adaptive approach. (English summary) **2004k:62122**
Portugal, Pedro *see* **Machado, José A. F., (2004d:62007)**
Rabinowitz, Nitzan *see* **Steinberg, David M., 2004f:62195**
Raghunathan, Trivellore E. *see* **Tang, Gong et al., 2004j:62112**
Ramos-Quiroga, Rogelio *see* **Díaz-García, José A., 2004i:62052**
Rocke, David M. (*with* Woodruff, David L.) Computational connections between robust multivariate analysis and clustering. (*see* **2004a:62009**)
Romanazzi, Mario Perturbation properties of depth regions. (English summary) **2004e:62078**
Rowe, Daniel B. ★ Multivariate Bayesian statistics. **2004f:62010**
Roy, Roch *see* **Pham Dinh Tuan et al., 2004h:62163**
Sahu, Sujit K. (*with* Dey, Dipak K.; Branco, Márcia D.) A new class of multivariate skew distributions with applications to Bayesian regression models. (English and French summaries) **2004h:62027**
Saracco, Jérôme *see* **Gannoun, Ali et al.**
Satorra, Albert *see* **Costa, Àlex et al.**
Schönfeld, Peter Least squares in general vector spaces revisited. (English summary) **2004m:62156**
Sen, Pranab Kumar[1] *see* **Tien, Hsiao-Chuan, 2004d:62336**
Sentana, Enrique *see* **Fiorentini, Gabriele et al., 2004h:62155**
Serfling, Robert Nonparametric multivariate descriptive measures based on spatial quantiles. (English summary)
Shapiro, Alexander (*with* ten Berge, Jos M. F.) Statistical inference of minimum rank factor analysis. (English summary) **2004a:62113**
Shchestyuk, Natalīya Yu. *see* **Moklyachuk, Mikhail P., 2004j:60105**
Shevlyakov, G. L. (*with* Lee, Jae Won[3]) Robust L_p-norm estimators of multivariate location in models with a bounded variance. (English summary) **2004d:62121**
Shi, Ning-Zhong (*with* Zheng, Shu-Rong) The maximum likelihood estimates of expected frequencies under the loop order. (English summary) **2004j:62129**
Smith, Alison *see* **Thompson, Robin et al.**
Smith, Elizabeth L. (*with* Walshaw, David) Modelling bivariate extremes in a region. (English summary) (*see* **2004g:62009**)
Smith, W. James *see* **Formby, John P. et al.**
Snoussi, Hichem (*with* Mohammad-Djafari, Ali) Penalized maximum likelihood for multivariate Gaussian mixture. (English summary) **2004a:62065**
Sperlich, Stefan *see* **Yang, Lijian et al., 2004j:62082**
Spokoĭnyĭ, V. G. *see* **Goldenshluger, A., 2004k:44001** *and* **Polzehl, Jörg, 2004k:62122**
Srivastava, Muni S. Nested growth curve models. (English summary) **2004j:62114**
Steinberg, David M. (*with* Rabinowitz, Nitzan) Optimal seismic monitoring for event location with application to on site inspection of the Comprehensive Nuclear Test Ban Treaty. (English summary) **2004f:62195**
Strawderman, William E. *see* **Fourdrinier, Dominique et al., 2004d:62089** *and* **2004j:62037**
Sun, Dong Chu *see* **Woodard, Roger et al., 2004j:62056**
Tamminen, Toni (*with* Lampinen, Jouko) Bayesian object matching with hierarchical priors and Markov chain Monte Carlo. (English summary) (*see* **2004g:62009**)
Tanaka, Yutaka[1] *see* **Yamanishi, Yoshihiro**
Tang, Gong (*with* Little, Roderick J. A.; Raghunathan, Trivellore E.) Analysis of multivariate missing data with nonignorable nonresponse. (English summary) **2004j:62112**
Tarasińska, Joanna Making use of incomplete observations for regression in bivariate normal model. (English summary) **2004a:62127**
Thompson, Robin (*with* Cullis, Brian; Smith, Alison; Gilmour, Arthur) A sparse implementation of the average information algorithm for factor analytic and reduced rank variance models. (English summary)
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Tøgersen, Frede Aakmann (*with* Waagepetersen, Rasmus Plenge) Statistical modelling and deconvolution of yield meter data. (English summary)
Toma, Aida On the consistency of a robust estimator of a covariance matrix for a mixture model. (English summary) **2004j:62109**
Torokhtiĭ, A. P. (*with* Howlett, Phil G.) Constructing fixed rank optimal estimators with method of best recurrent approximations. (English summary) **2004e:62116**
Tsogka, Chrysoula *see* **Borcea, Liliana et al., 2004a:62120**
Tyler, David E. High breakdown point multivariate M-estimation. (English summary) **2004i:62074**
Ugarte, M. Dolores *see* **Militino, Ana F. et al.**
Umbach, Dale An information approach to optimal spacings for estimation in location-scale models. (English summary)
Üster, Halit (*with* Love, Robert F.) Formulation of confidence intervals for estimated actual distances. (English summary)
Utikal, Klaus J. *see* **Kneip, Aloïs, 2004d:62154**
Vajda, Igor *see* **Berlinet, Alain et al., 2004i:62076**
Ventura, Eva *see* **Costa, Àlex et al.**
Vilar Fernández, Juan M. (*with* Fernández, Mario Francisco) Local polynomial regression smoothers with AR-error structure. (English summary) **2004a:62089**
— *see also* Francisco-Fernandez, Mario
Vrontos, I. D. (*with* Dellaportas, Petros; Politis, Dimitris N.) A full-factor multivariate GARCH model. (English summary)
Waagepetersen, Rasmus Plenge *see* **Tøgersen, Frede Aakmann**
Walshaw, David *see* **Smith, Elizabeth L., (2004g:62009)**
Wang, Guang Hui[2] *see* **Li, Quan-Lin et al.**
Wang, Xiaogang (Steven) (*with* van Eeden, Constance; Zidek, James V.) Asymptotic properties of maximum weighted likelihood estimators. (English summary) **2004k:62078**
Wesolowska-Janczarek, Mirosława About the influence of interblock variation on growth curve estimators obtained by Potthoff-Roy's method. (English summary)
William, Martin L. *see* **Durairajan, T. M., 2004f:62064**
Wood, Andrew T. A. Laplace/saddlepoint approximations. (*see* **2004a:62014**)
Woodard, Roger (*with* He, Chong Z.; Sun, Dong Chu) Bayesian estimation of hunting success rate and harvest for spatially correlated post-stratified data. (English summary) **2004j:62056**
Woodruff, David L. *see* **Rocke, David M., (2004a:62009)**
Yamanishi, Yoshihiro (*with* Tanaka, Yutaka[1]) Geographically weighted functional multiple regression analysis: a numerical investigation. (English summary)
Yang, Lijian (*with* Sperlich, Stefan; Härdle, Wolfgang) Derivative estimation and testing in generalized additive models. (English summary) **2004j:62082**
Yatracos, Yannis Assessing the quality of bootstrap samples and of the bootstrap estimates obtained with finite resampling. (English summary) **2004c:62018**
Yin, Guosheng (*with* Cai, Jianwen; Kim, Jinheum) Quantile inference with multivariate failure time data. (English summary) **2004f:62190**
Yohai, Víctor J. *see* **Adrover, Jorge, 2004b:62083**
Zheng, Buhong *see* **Formby, John P. et al.**

Zheng, Shu-Rong *see* **Shi, Ning-Zhong**, **2004j:62129**
Zhou, Yuan *see* **Li, Quan-Lin et al.**
Zhu, Li *see* **Carlin, Bradley P. et al.**, (**2004m:62011**)
Zidek, James V. *see* **Wang, Xiaogang (Steven) et al.**, **2004k:62078**
Zuo, Yi-jun Finite sample tail behavior of multivariate location estimators. (English summary) **2004b:62077**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Chikuse, Yasuko**, **2004d:62001**

62H15 Hypothesis testing

Abu-Dayyeh, Walid A. (*with* Al-Jararha, Jehad; Madan, Kailash C.) LRT conjecture for bivariate normal. (English summary) **2004k:62149**
Al-Jararha, Jehad *see* **Abu-Dayyeh, Walid A. et al.**, **2004k:62149**
Aoki, Satoshi *see* **Srivastava, Muni S. et al.**, (**2004j:62008**)
Baltagi, Badi H. (*with* Song, Seuck Heun; Koh, Won) Testing panel data regression models with spatial error correlation. (English summary)
Bickel, Peter J. *see* **Kim, Namhyun**, **2004f:62127**
(Bloch, Daniel A.) *see* **Perlman, Michael D.**
Borovkova, Svetlana Detecting changes in term structure from financial time series. (English summary)
Bullmore, E. T. *see* **Landau, Sabine et al.**
Castañeda, María Eugenia *see* **Nagar, Daya K.**
Cohen, Arthur (*with* Madigan, David; Sackrowitz, Harold B.) Effective directed tests for models with ordered categorical data. (English summary) **2004g:62109**
Cook, R. Dennis (*with* Setodji, C. Messan) A model-free test for reduced rank in multivariate regression. (English summary) **2004e:62109**
Drekic, Steve *see* **Thabane, Lehana**, **2004f:62128**
van Eeden, Constance *see* **Larocque, Denis et al.**, **2004d:62209**
Ellison-Wright, I. C. *see* **Landau, Sabine et al.**
Finos, Livio (*with* Salmaso, Luigi) Nonparametric multi-focus analysis for categorical variables. (English summary)
Gamage, Jinadasa (*with* Mathew, Thomas[1]; Weerahandi, Samaradasa) Generalized p-values and generalized confidence regions for the multivariate Behrens-Fisher problem and MANOVA. (English summary)
Gao, Yonghong *see* **Marden, John**, **2004k:62150**
Genest, Christian (*with* Plante, Jean-François) On Blest's measure of rank correlation. (English and French summaries) **2004d:62207**
Glimm, Ekkehard (*with* Läuter, Jürgen) On the admissibility of stable spherical multivariate tests. (English summary) **2004d:62208**
— *see also* **Srivastava, Muni S. et al.**, (**2004j:62008**)
Guo, Meihui (*with* Shen, C. C.) LM test for the constancy of regression coefficient with moving average innovation. (English summary) **2004a:62109**
Gupta, Arjun K. (*with* Henze, Norbert; Klar, B.) Testing for affine equivalence of elliptically symmetric distributions. (English summary) **2004j:62121**
Hallin, Marc (*with* Paindaveine, Davy) Multivariate signed ranks: Randles' interdirections or Tyler's angles? (English summary) (*see* **2004d:62007**)
Henze, Norbert *see* **Gupta, Arjun K. et al.**, **2004j:62121**
Hirotsu, Chihiro *see* **Srivastava, Muni S. et al.**, (**2004j:62008**)
Hudson, H. Malcolm *see* **Warton, David**
Imai, Hideyuki *see* **Yoshida, Kiyotaka et al.**, **2004b:62147** *and* **Taneichi, Nobuhiro et al.**
Kala, Radosław (*with* Krzyśko, Mirosław) An extension of Bar-Hen's preliminary test procedure. (English summary) **2004c:62132**
Kankainen, Annaliisa *see* **Taskinen, Sara et al.**, **2004c:62133** *and* **2004c:62134**
Khattree, Ravindra *see* **Roy, Anuradha**
Kim, Namhyun (*with* Bickel, Peter J.) The limit distribution of a test statistic for bivariate normality. (English summary) **2004f:62127**
Klar, B. *see* **Gupta, Arjun K. et al.**, **2004j:62121**
Koh, Won *see* **Baltagi, Badi H. et al.**
Krishnamoorthy, K. (*with* Yu, Jianqi) Modified Nel and van der Merwe test for the multivariate Behrens-Fisher problem. (English summary) **2004j:62122**
Krzyśko, Mirosław *see* **Kala, Radosław**, **2004c:62132**
Labarre, Mélanie *see* **Larocque, Denis**
(Lai, Tze Leung) *see* **Perlman, Michael D.**
Landau, Sabine (*with* Ellison-Wright, I. C.; Bullmore, E. T.) Tests for a difference in timing of physiological response between two brain regions measured by using functional magnetic resonance imaging. (English summary)
Langsrud, Oyvind The geometrical interpretation of statistical tests in multivariate linear regression. (English summary)
Larocque, Denis (*with* Tardif, Serge; van Eeden, Constance) An affine-invariant generalization of the Wilcoxon signed-rank test for the bivariate location problem. (English summary) **2004d:62209**
— An affine-invariant multivariate sign test for cluster correlated data. (English and French summaries) **2004m:62139**
— (*with* Labarre, Mélanie) A conditionally distribution-free multivariate sign test for one-sided alternatives. (English summary)
Läuter, Jürgen *see* **Glimm, Ekkehard**, **2004d:62208**
Lee, Jack C. *see* **Lin, Shu-Hui**, **2004d:62210**
Lin, Shu-Hui (*with* Lee, Jack C.) Exact tests in simple growth curve models and one-way ANOVA with equicorrelation error structure. (English summary) **2004d:62210**
Liu, Wei[4] (*with* Somerville, P. N.) Stepwise multiple tests for successive comparisons of treatment effects. (English summary)
Logan, Brent R. A cone order monotone test for the one-sided multivariate testing problem. (English summary) **2004e:62110**
Madan, Kailash C. *see* **Abu-Dayyeh, Walid A. et al.**, **2004k:62149**
Madigan, David *see* **Cohen, Arthur et al.**, **2004g:62109**
Marchetti, Carol E. *see* **Srivastava, Deo Kumar et al.**, (**2004a:62006**)
Marden, John (*with* Gao, Yonghong) Rank-based procedures for structural hypotheses on covariance matrices. (English summary) **2004k:62150**
Mathew, Thomas[1] *see* **Gamage, Jinadasa et al.**
Mudholkar, Govind S. *see* **Srivastava, Deo Kumar et al.**, (**2004a:62006**)
Nagar, Daya K. (*with* Castañeda, María Eugenia) Testing multisample compound symmetry. (English summary)
— (*with* Sánchez, Carmen Cecilia) Exact percentage points for testing multisample sphericity in the bivariate case. (English summary)
Nakanishi, Hiroko Tests of hypotheses for the distance between populations on the mixture of categorical and continuous variables. (English summary)
Oja, Hannu *see* **Taskinen, Sara et al.**, **2004c:62133**; **2004c:62134** *and* **Topchii, A. et al.**, **2004k:62151**
Paindaveine, Davy *see* **Hallin, Marc**, (**2004d:62007**)
Perlman, Michael D. (*with* Wu, Lang) A note on: "One-sided tests in clinical trials with multiple endpoints" [Biometrics **57** (2001), no. 4, 1039–1047] by D. A. Bloch, T. L. Lai and P. Tubert-Bitter. (English and French summaries)
Pinçon, Claire Non-parametric tests for the two-group comparison with multivariate censored data. (English and French summaries)
Pison, Greet *see* **Willems, Gert et al.**, (**2004a:62009**) *and* (**2004a:62010**)
Plante, Jean-François *see* **Genest, Christian**, **2004d:62207**
Rousseeuw, Peter J. *see* **Willems, Gert et al.**, (**2004a:62009**) *and* (**2004a:62010**)
Roy, Anuradha (*with* Khattree, Ravindra) Tests for mean and covariance structures relevant in repeated measures based discriminant analysis. (English summary)
Sackrowitz, Harold B. *see* **Cohen, Arthur et al.**, **2004g:62109**
Salmaso, Luigi *see* **Finos, Livio**
Sánchez, Carmen Cecilia *see* **Nagar, Daya K.**
Sato, Yoshiharu *see* **Yoshida, Kiyotaka et al.**, **2004b:62147**
Schoenberg, Frederic Paik Testing separability in spatial-temporal marked point processes. (English and French summaries)
Sekiya, Yuri *see* **Taneichi, Nobuhiro et al.**
Setodji, C. Messan *see* **Cook, R. Dennis**, **2004e:62109**
Shen, C. C. *see* **Guo, Meihui**, **2004a:62109**
Somerville, P. N. *see* **Liu, Wei[4]**
Song, Seuck Heun *see* **Baltagi, Badi H. et al.**
Srivastava, Deo Kumar (*with* Mudholkar, Govind S.; Marchetti, Carol E.) A class of robust stepwise tests for MANOVA. (English summary) (*see* **2004a:62006**)
Srivastava, Muni S. (*with* Hirotsu, Chihiro; Aoki, Satoshi; Glimm, Ekkehard) Multivariate one-sided tests. (English summary) (*see* **2004j:62008**)
Taneichi, Nobuhiro (*with* Sekiya, Yuri; Imai, Hideyuki) Improvements of goodness-of-fit statistics for sparse multinomials based on normalizing transformations. (English summary)
Tardif, Serge *see* **Larocque, Denis et al.**, **2004d:62209**
Taskinen, Sara ★ On nonparametric tests of independence and robust canonical correlation analysis. (English summary) **2004j:62123**
— (*with* Kankainen, Annaliisa; Oja, Hannu) Tests of independence based on sign and rank covariances. (English summary) **2004c:62133**
— (*with* Kankainen, Annaliisa; Oja, Hannu) Sign test of independence between two random vectors. (English summary) **2004c:62134**
Thabane, Lehana (*with* Drekic, Steve) Hypothesis testing for the generalized multivariate modified Bessel model. (English summary) **2004f:62128**
Topchii, A. (*with* Tyurin, Yu. N.; Oja, Hannu) Inference based on the affine invariant multivariate Mann-Whitney-Wilcoxon statistic. (English summary) **2004k:62151**
(Tubert-Bitter, Pascale) *see* **Perlman, Michael D.**
Tyurin, Yu. N. *see* **Topchii, A. et al.**, **2004k:62151**
Van Aelst, Stefan *see* **Willems, Gert et al.**, (**2004a:62009**) *and* (**2004a:62010**)
Viguier-Pla, Sylvie Factor-based comparison of k populations. (English summary) **2004k:62152**
Warton, David (*with* Hudson, H. Malcolm) Hypothesis testing of multivariate abundance data. (English summary)
Weerahandi, Samaradasa *see* **Gamage, Jinadasa et al.**
Willems, Gert (*with* Pison, Greet; Rousseeuw, Peter J.; Van Aelst, Stefan) A Hotelling test based on MCD. (English summary) (*see* **2004a:62009**)
— (*with* Pison, Greet; Rousseeuw, Peter J.; Van Aelst, Stefan) A robust hotelling test. (English summary) (*see* **2004a:62010**)
Wu, Lang *see* **Perlman, Michael D.**
Yeo, In-Kwon A test of the multivariate normality based on likelihood functions. (Korean. English and Korean summaries)
Yoshida, Kiyotaka (*with* Imai, Hideyuki; Sato, Yoshiharu) New criteria for tests of dimensionality under elliptical populations. (English summary) **2004b:62147**
Yu, Jianqi *see* **Krishnamoorthy, K.**, **2004j:62122**

Items with secondary classifications in 62H15

Andrzejak, Ralph G. (*with* Kraskov, Alexander; Stögbauer, Harald; Mormann, Florian; Kreuz, Thomas) Bivariate surrogate techniques: necessity, strengths, and caveats. (English summary) **2004m:37158**
Anselin, Luc Spatial econometrics. (*see* **2004j:62006**)
Apanasovich, Tatiyana V. (*with* Sheather, Simon; Lupton, Joanne R.; Popovic, Natasa; Turner, Nancy D.; Chapkin, Robert S.; Braby, Leslie A.; Carroll, Raymond J.) Testing for spatial correlation in nonstationary binary data, with application to aberrant crypt foci in colon carcinogenesis. (English and French summaries)
Baringhaus, Ludwig (*with* Franz, C.) On a new multivariate two-sample test. (English summary) **2004i:62092**
Bolton, Richard J. (*with* Hand, David J.; Crowder, Martin J.) Significance tests for unsupervised pattern discovery in large continuous multivariate data sets. (English summary)
Braby, Leslie A. *see* **Apanasovich, Tatiyana V. et al.**
Bura, Efstathia (*with* Cook, R. Dennis) Rank estimation in reduced-rank regression. (English summary) **2004i:62123**
Carroll, Raymond J. *see* **Apanasovich, Tatiyana V. et al.**
Chaperon, Thomas Surface fitting validation using regression analysis. (English summary) (*see* **2004j:65004**)
Chapkin, Robert S. *see* **Apanasovich, Tatiyana V. et al.**

Chen, Zhen *see* **Dunson, David B.**
Chikuse, Yasuko ★ Statistics on special manifolds. **2004d:62001**
— (*with* Jupp, Peter E.) A test of uniformity on shape spaces. (English summary) **2004h:62098**
Colombi, R. (*with* Forcina, Antonio) Modelling discrete data using equality and inequality constraints. (Italian. English and Italian summaries) **2004j:62127**
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Jupp, Peter E. *see* **Chikuse, Yasuko**, **2004h:62098**
Kraskov, Alexander *see* **Andrzejak, Ralph G. et al.**, **2004m:37158**
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Ng, Kai Wang *see* **Zhu, Li-Xing**, **2004f:62140**
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62H17 Contingency tables

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Pagès, Jérôme *see* **Bécue-Bertaut, Mónica**
Papaioannou, Takis *see* **Kateri, Maria**
Pardo, Leandro *see* **Menéndez, M. L. et al., 2004a:62110**
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Items with secondary classifications in 62H17

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Evdokimov, L. A. *see* **Romanovskiĭ, I. V., 2004k:62155**
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Kenji, Takatsukasa *see* **Matsufuji, Shinya et al.**, (2004h:00019)
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Prentice, Ross L. *see* **Gorfine, Malka et al.**, 2004f:62130
Puntanen, Simo *see* **Drury, S. W. et al.**, 2004e:62111
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Nikolaidis, A. *see* **Tefas, A. et al.**
Nikolaidis, N. *see* **Tefas, A. et al.**
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Ruskin, H. *see* **Sharifi, S. et al.**, **2004m:91124**
Scherrer, Wolfgang *see* **Dahlén, Anders**, **2004j:62170**
Schucany, William R. *see* **Minhajuddin, Abu T. M. et al.**
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Van Aelst, Stefan *see* **Pison, Greet**
Viguier-Pla, Sylvie Factor-based comparison of k populations. (English summary) **2004k:62152**
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Zabrodin, A. V. *see* **Wiegmann, Paul B.**, **2004h:82054**
Zhang, Jianzhong *see* **Berleant, Daniel**

Items listed otherwise than by author

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62H25 Factor analysis and principal components; correspondence analysis

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Bao, Zheng *see* **Ouyang, Shan et al.**, **2004j:62130**
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Duarte, Antonio Marcos, Jr. *see* **de Almeida, Caio Ibsen Rodrigues et al.**
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Mori, Yuichi *see* **Tanaka, Yutaka[1] et al.** *and* **Iizuka, Masaya et al.**
Morris, A. Julian *see* **Li, Baibing et al.**, **2004d:62216**
Müller, Hans-Georg *see* **Yao, Fang[2] et al.**
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Ruiz-Velasco, Silvia *see* **González-Barrios, José María**, **2004f:62132**
Sadegh, Mohammad Khanjari *see* **Ramamurthy, K. G. et al.**, **2004c:62139**
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Vogel, John S. *see* **Yao, Fang**[2] **et al.**
Wang, Jue *see* **Zhang, Jun Ping**, **2004b:62151**
Wang, Ming[4] *see* **Shi, Lei**[2] **et al.**
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Banks, David L. (*with* Olszewski, Robert T.) Data mining in federal agencies. (English summary) (*see* **2004j:62012**)
Behboodian, Javad *see* **Zare, N. et al.**
Bellini, Fabio (*with* Salinelli, Ernesto) Independent component analysis and immunization: an exploratory study. (English summary) **2004k:94003**
Bener, A. *see* **Akhisar, İ.**, **2004c:62135**
Beran, Jan ★ Statistics in musicology. **2004i:62004**
Bhatia, V. K. *see* **Raju, B. M. K.**
Bianco, Ana (*with* Boente, Graciela) A robust approach to partly linear autoregressive models. (English summary)
Boente, Graciela *see* **Bianco, Ana**
Booth, James G. *see* **Hartless, Glen et al.**
Braun, John *see* **Maindonald, John H.**
Cardot, Hervé (*with* Goia, Aldo; Sarda, Pascal) Testing for no effect in functional linear regression models, some computational approaches. (English summary)
Cerioli, Andrea *see* **Atkinson, Anthony C. et al.**, **2004m:62001**
Christensen, Bent Jesper Financial risk modelling and econometric inference. (English summary) **2004i:62012**
Cristianini, Nello *see* **Shawe-Taylor, John et al.**
Croux, Christophe *see* **Filzmoser, Peter**, **2004i:62125**
Ellis, Steven P. Fitting a line to three or four points on a plane. (English summary) **2004d:62232**
Falk, Michael (*with* Marohn, Frank; Tewes, Bernward) ★ Foundations of statistical analyses and applications with SAS. **2004e:62002**
Fedorov, Valerii V. (*with* Herzberg, Agnes M.; Leonov, Sergei L.) Component-wise dimension reduction. (English summary) **2004d:62258**
Ferré, L. (*with* Whittaker, Joe) Application of the empirical characteristic function to compare and estimate densities by pooling information. (English summary)
Filzmoser, Peter (*with* Croux, Christophe) Dimension reduction of the explanatory variables in multiple linear regression. (English summary) **2004i:62125**
Francis, Louise A. An introduction to neural networks in insurance. (*see* **2004k:62016**)
Fried, Roland (*with* Gather, Ursula; Imhoff, Michael; Keller, Melanie; Lanius, Vivian) Combining graphical models and PCA for statistical process control. (English summary) (*see* **2004a:62009**)
Futamura, Yasuhiro *see* **Takeuchi, Fumihiko et al.**
Gather, Ursula *see* **Fried, Roland et al.**, (**2004a:62009**)
Ghosh, Debashis Penalized discriminant methods for the classification of tumors from gene expression data. (English and French summaries)
Goia, Aldo *see* **Cardot, Hervé et al.**
González Rodelas, Pedro *see* **Valderrama Bonnet, Mariano J. et al.**
Grégoire, Gérard *see* **Amato, Umberto et al.**, **2004d:62218**
Hartless, Glen (*with* Booth, James G.; Littell, Ramon C.) Local influence of predictors in multiple linear regression. (English summary)
He, Guozhong (*with* Müller, Hans-Georg; Wang, Jane-Ling) Methods of canonical analysis for functional data. (English summary)
Herzberg, Agnes M. *see* **Fedorov, Valerii V. et al.**, **2004d:62258**
Imhoff, Michael *see* **Fried, Roland et al.**, (**2004a:62009**)
Jolliffe, Ian T. ★ Principal component analysis. **2004k:62010**
— (*with* Trendafilov, Nickolay T.; Uddin, Mudassir) A modified principal component technique based on the LASSO. (English summary)
Jordan, Michael I. *see* **Bach, Francis R.**, **2004b:68132**
Kandola, Jaz *see* **Shawe-Taylor, John et al.**
Keller, Melanie *see* **Fried, Roland et al.**, (**2004a:62009**)
Kneip, Aloïs (*with* Utikal, Klaus J.) Inference for density families using functional principal component analysis. (English summary) **2004d:62154**
Lanius, Vivian *see* **Fried, Roland et al.**, (**2004a:62009**)
Leonov, Sergei L. *see* **Fedorov, Valerii V. et al.**, **2004d:62258**
Liang, Yan Chun *see* **Wu, Chun Guo et al.**
Littell, Ramon C. *see* **Hartless, Glen et al.**
Lü, Ying Hua *see* **Wu, Chun Guo et al.**
Maindonald, John H. (*with* Braun, John) ★ Data analysis and graphics using R—an example-based approach.
Marohn, Frank *see* **Falk, Michael et al.**, **2004e:62002**
Müller, Hans-Georg *see* **He, Guozhong et al.**
Murtagh, Fionn Clustering in high-dimensional data spaces. (English summary) (*see* **2004d:62005**)
Neudecker, Heinz (*with* Satorra, Albert) On best affine prediction. (English summary) **2004c:62190**
Nyquist, Hans Orthogonal L_1-norm estimation. (English summary) (*see* **2004d:62007**)
Ogasawara, Haruhiko Standard errors of fit indices using residuals in structural equation modeling. (English summary) **2004a:62140**
Olszewski, Robert T. *see* **Banks, David L.**, (**2004j:62012**)
Ortega-Moreno, Mónica *see* **Valderrama Bonnet, Mariano J. et al.**
Pison, Greet (*with* Van Aelst, Stefan) Diagnostic plots for robust multivariate methods. (English summary)
Raju, B. M. K. (*with* Bhatia, V. K.) Bias in the estimates of sensitivity from incomplete $G \times E$ tables. (English and Hindi summaries)
Riani, Marco *see* **Atkinson, Anthony C. et al.**, **2004m:62001**
Salinelli, Ernesto *see* **Bellini, Fabio**, **2004k:94003**
Sarda, Pascal *see* **Cardot, Hervé et al.**
Satorra, Albert *see* **Neudecker, Heinz**, **2004c:62190**
Schotman, Peter C. *see* **Bams, Dennis**
Serikova, E. V. *see* **Zhuk, E. E.**, **2004i:62118**
Shawe-Taylor, John (*with* Williams, Chris; Cristianini, Nello; Kandola, Jaz) On the eigenspectrum of the Gram matrix and its relationship to the operator eigenspectrum. (English summary)
Sun, Yan Feng *see* **Wu, Chun Guo et al.**
Takeuchi, Fumihiko (*with* Futamura, Yasuhiro; Yoshikura, Hiroshi; Yamamoto, Kenji) Statistics of trinucleotides in coding sequences and evolution. (English summary)
Tewes, Bernward *see* **Falk, Michael et al.**, **2004e:62002**
Trendafilov, Nickolay T. *see* **Jolliffe, Ian T. et al.**
Uddin, Mudassir *see* **Jolliffe, Ian T. et al.**
Utikal, Klaus J. *see* **Kneip, Aloïs**, **2004d:62154**
Valderrama Bonnet, Mariano J. (*with* Ortega-Moreno, Mónica; González Rodelas, Pedro; Aguilera Del Pino, Ana Ma.) Derivation of a state-space model by functional data analysis. (English summary)
Van Aelst, Stefan *see* **Pison, Greet**
van de Velden, Michel Optimal scaling of paired comparison data. (English summary)
Viguier-Pla, Sylvie Factor-based comparison of k populations. (English summary) **2004k:62152**
Wang, Jane-Ling *see* **He, Guozhong et al.**
Whittaker, Joe *see* **Ferré, L.**
Williams, Chris *see* **Shawe-Taylor, John et al.**

Wu, Chun Guo (*with* Liang, Yan Chun; Sun, Yan Feng; Zhou, Chun Guang; Lü, Ying Hua) On the equivalence of SVD and PCA. (Chinese. English and Chinese summaries)
Yamamoto, Kenji *see* **Takeuchi, Fumihiko et al.**
Yoshikura, Hiroshi *see* **Takeuchi, Fumihiko et al.**
Zare, N. (*with* Ayatollahi, S. M. T.; Behboodian, Javad) Latent variable mixed models with missing data. (English and Persian summaries)
Zhang, Yanwu Complex-valued generalized Hebbian algorithm and its application to sensor array signal processing.
Zhou, Chun Guang *see* **Wu, Chun Guo et al.**
Zhuk, E. E. (*with* Serikova, E. V.) Cluster analysis of multivariate Gaussian observations in the space of principal components. (Russian. English and Russian summaries) **2004i:62118**

62H30 Classification and discrimination; cluster analysis [see also 68T10]

Abraham, Christophe (*with* Cornillon, P. A.; Matzner-Løber, Eric; Molinari, Nicolas) Unsupervised curve clustering using B-splines. (English summary) **2004g:62111**
Acuña, Edgar (*with* Rojas, Alex; Coaquira, Frida) Effect of feature selection on bagging classifiers based on kernel density estimators. (English summary) (*see* **2004d:62005**)
Adam, Bao-Ling *see* **Yasui, Yutaka et al.**
Adams, Niall M. *see* **Hand, David J. et al.**, (**2004j:62010**)
Aerts, Marc (*with* Faes, Christel; Claeskens, Gerda) Flexible polynomial models. (*see* **2004g:62010**)
— *see also* **Claeskens, Gerda et al.**, (**2004g:62010**)
Agustini, Alexandre *see* **Noncheva, Veska et al.**
Akritas, Michael G. (*with* Du, Yunling; Eissenstat, David M.) Nonparametric models for clustered data: application to root survival study. (English summary)
Al-Harbi, S. H. (*with* McKeown, G. P.; Rayward-Smith, V. J.) A new metric for categorical data. (English summary) (*see* **2004j:62012**)
Alkoot, F. M. (*with* Kittler, Josef) Improving product by moderating k-NN classifiers. (English summary) (*see* **2004j:62010**)
— *see also* **Kittler, Josef**, (**2004j:62010**)
Alonso González, Carlos J. *see* **Rodríguez Diez, Juan J.**, (**2004j:62010**)
Al-Shiha, A. A. (*with* Yang, Shie-Shien) A method of testing interaction in a single replicate two-way classification experiment. (English summary)
Amaratunga, Dhammika (*with* Cabrera, Javier) Mining data to final subsets of high activity. (English summary)
Amato, Umberto (*with* Antoniadis, Anestis; Grégoire, Gérard) Independent component discriminant analysis. (English summary) **2004d:62218**
Anderson, Marti J. (*with* Robinson, John) Generalized discriminant analysis based on distances. (English summary) **2004f:62133**
Angelov, Plamen An approach for fuzzy rule-base adaptation using on-line clustering. (English summary)
Antoniadis, Anestis *see* **Amato, Umberto et al.**, **2004d:62218**
Antos, András (*with* Kégl, Balázs; Linder, Tamás; Lugosi, Gábor) Data-dependent margin-based generalization bounds for classification. (English summary) **2004c:62140**
Arcas, A. *see* **Salicrú, M.**, **2004d:62227**
Argaç, Doğan Testing for homogeneity in a general one-way classification with fixed effects: power simulations and comparative study. (English summary)
Arnold, Jonathan *see* **Datta, Susmita**
Assunção, Renato *see* **Duczmal, Luiz**
Avramenko, N. A. *see* **Zhuk, E. E.**, **2004j:62136**
Bacelar-Nicolau, Helena *see* **da Silva, Ana Lorga et al.**, (**2004d:62005**)
Baeza-Yates, Ricardo (*with* Bustos, Benjamín; Chávez, Edgar; Herrera, Norma; Navarro, Gonzalo) Clustering in metric spaces with applications to information retrieval. (*see* **2004j:62005**)
Bagirov, Adil M. (*with* Rubinov, Aleksandr M.; Yearwood, John) A global optimization approach to classification. (English summary) **2004a:62115**
Barthélemy, Jean-Pierre (*with* Brucker, François) Graphs, L_1-metrics and clustering. (English summary) **2004i:62115**
Basu, Ayanendranath (*with* Bose, Smarajit; Purkayastha, Sumitra) Robust discriminant analysis using weighted likelihood estimators. (English summary)
Benayade, Mohammed (*with* Fichet, Bernard) The median extension of data analysis metric structures. (English summary) **2004e:62117**
Benediktsson, Jon Atli *see* **Briem, Gunnar Jakob et al.**, (**2004j:62010**)
Benner, A. Application of "aggregated classifiers" in survival time studies. (English summary) (*see* **2004a:62009**)
Bensmail, H. (*with* DeGennaro, R. P.) Cluster analysis of imputed financial data using an augmentation-based algorithm. (English summary) (*see* **2004j:62012**)
Bentler, Peter M. *see* **Yuan, Ke-Hai**
Benton, Thomas C. (*with* Hand, David J.) Segmentation into predictable classes. (English summary)
Berry, Michael W. *see* **Heinrich, Kevin et al.**, (**2004j:62012**)
Bersimis, S. *see* **Vassiliou, A. et al.**
Bertrand, Patrice (*with* Janowitz, Melvin F.) The k-weak hierarchical representations: an extension of the indexed closed weak hierarchies. (English summary) **2004c:62141**
Bhatia, V. K. *see* **Raju, B. M. K.**
Bhattacharyya, Chiranjib *see* **Lanckriet, Gert R. G. et al.**, **2004h:62111**
Biagio, M. A. A recovering comparative study of clustering analysis. (English summary)
Blachman, Nelson M. Optimal sequential selection from among n boxes. (English summary)
Blanchard, Gilles Generalization error bounds for aggregate classifiers. (*see* **2004d:62006**)
Bock, Hans-Hermann Clustering algorithms and Kohonen maps for symbolic data. (English summary)
Bodjanova, Slavka Partial defuzzification of fuzzy clusters. (English summary) (*see* **2004d:62005**)
Bonnet, Noël (*with* Herbin, Michel; Cutrona, Jérôme; Zahm, Jean-Marie) A new clustering approach, based on the estimation of the probability density function, for gene expression data. (English summary) (*see* **2004d:62005**)
— *see also* **Herbin, Michel**, (**2004d:62005**)
Bose, Smarajit *see* **Basu, Ayanendranath et al.**
Bousquet, Olivier (*with* Koltchinskii, Vladimir; Panchenko, Dmitriĭ Anatol′evich) Some local measures of complexity of convex hulls and generalization bounds. (English summary) (*see* **2004j:68006**)
Bozdogan, Hamparsum *see* **Liu, Zhenqiu**, (**2004j:62012**)
Braun, Mikio *see* **Roth, Volker et al.**, (**2004a:62009**)
Braun, Thomas M. (*with* Feng, Ziding) Identifying settings when permutation tests have nominal size with paired, binary-outcome, group randomized trials. (English summary)
Braverman, Amy A strategy for compression and analysis of very large remote sensing data sets. (*see* **2004d:62006**)
— (*with* Fetzer, Eric; Eldering, Annmarie; Nittel, Silvia; Leung, Kelvin) Semi-streaming quantization for remote sensing data. (English summary)
Breaz, Daniel *see* **Breaz, Nicoleta**, **2004d:62219**
Breaz, Nicoleta (*with* Breaz, Daniel) A comparison between two indices obtained by MDF. (English summary) **2004d:62219**
Breiman, Leo Population theory for boosting ensembles. (English summary) **2004m:62144**
Briem, Gunnar Jakob (*with* Benediktsson, Jon Atli; Sveinsson, Johannes R.) Boosting, bagging, and consensus based classification of multisource remote sensing data. (English summary) (*see* **2004j:62010**)
Brito, Paula Hierarchical and pyramidal clustering for symbolic data. (English summary)
Brooks, Stephen P. Trans-dimensional Markov chains and their applications in statistics. (English summary) (*see* **2004a:62009**)
Brucker, François *see* **Barthélemy, Jean-Pierre**, **2004i:62115**
Bruzzone, Lorenzo (*with* Cossu, Roberto) A robust multiple classifier system for a partially unsupervised updating of land-cover maps. (English summary) (*see* **2004j:62010**)
Bryan, Jennifer *see* **van der Laan, Mark J. et al.**
Buhmann, Joachim M. *see* **Roth, Volker et al.**, (**2004a:62009**)
Bunke, Horst *see* **Marti, U.-V.**, (**2004j:62010**)
Burbidge, Robert Adaptive kernels for support vector classification. (English summary) (*see* **2004d:62006**)
Bustos, Benjamín *see* **Baeza-Yates, Ricardo et al.**, (**2004j:62005**)
Buxton, Bernard *see* **Wickramaratna, Jeevani et al.**, (**2004j:62010**) *and* **Langdon, W. B.**, (**2004j:62010**)
Cabrera, Javier *see* **Amaratunga, Dhammika**
Calò, Daniela G. *see* **Pillati, Marilena**, (**2004d:62005**)
Cappelli, Carmela (*with* Conversano, Claudio) Canonical variates for recursive partitioning in data mining. (English summary) (*see* **2004a:62009**)
Castillo Elizondo, William (*with* Trejos, Javier) Two-mode partitioning: review of methods and application of tabu search. (English summary) (*see* **2004d:62005**)
Ceulemans, Eva (*with* Van Mechelen, Iven; Kuppens, Peter) Adapting the formal to the substantive: constrained Tucker3-HICLAS. (English summary)
Chang, Woojin (*with* Kim, Seong-Hee; Vidakovic, Brani) Wavelet-based estimation of a discriminant function. (English summary) **2004j:62131**
Chao, Zuei-Tien *see* **Hong, Ying-Yi et al.**
Chavent, Marie (*with* Lechevallier, Yves) Dynamical clustering of interval data: optimization of an adequacy criterion based on Hausdorff distance. (English summary) (*see* **2004d:62005**)
Chávez, Edgar *see* **Baeza-Yates, Ricardo et al.**, (**2004j:62005**)
Chen, De Chang (*with* Liu, Jian) Averaging weak classifiers. (English summary) (*see* **2004j:62010**)
Chen, De-Hua *see* **Yang, Miin-Shen et al.**
Chen, Dechang (*with* Huang, Peng[2]; Cheng, Xiuzhen) A concrete statistical realization of Kleinberg's stochastic discrimination for pattern recognition. I. Two-class classification. (English summary) **2004h:62107**
Chen, Jiahua *see* **Wei, Lai Sheng**, **2004c:62144**
Chen, Shande *see* **Gao, Feng[2] et al.**
Chen, Zhen *see* **Dunson, David B. et al.**
Cheng, Qian Sheng *see* **Yu, Jian et al.**, **2004k:62160** *and* **Errata: "Counterexamples to convergence theorem of maximum-entropy clustering algorithm"**
Cheng, Xiuzhen *see* **Chen, Dechang et al.**, **2004h:62107**
Cherepinsky, Vera (*with* Feng, Jiawu; Rejali, Marc; Mishra, Bud) Shrinkage-based similarity metric for cluster analysis of microarray data. (English summary) **2004g:62112**
Cheung, David W. *see* **Yip, Kevin Y. et al.**
Choudhury, Arindam *see* **Nair, Prasanth B. et al.**, **2004d:62226**
Christmann, Andreas (*with* Fischer, Paul[1]; Joachims, Thorsten) Classification based on the support vector machine, regression depth, and discriminant analysis. (English summary) (*see* **2004a:62009**)
— Classification based on the support vector machine and on regression depth. (English summary) (*see* **2004d:62007**)
Chu, C.-H. Henry *see* **Noel, Steven et al.**, (**2004j:62005**)
Chu, Gilbert *see* **Hastie, Trevor J. et al.**, (**2004a:62009**)
Ciok, Alicja Grade correspondence-cluster analysis applied to separate components of reversely regular mixtures. (English summary) (*see* **2004d:62005**)
Claeskens, Gerda (*with* Aerts, Marc; Declerck, Lieven) Model misspecification. (*see* **2004g:62010**)
— *see also* **Aerts, Marc et al.**, (**2004g:62010**)
Coaquira, Frida *see* **Acuña, Edgar et al.**, (**2004d:62005**)
Conversano, Claudio *see* **Cappelli, Carmela**, (**2004a:62009**)
Cook, Richard J. (*with* Yi, Grace Y.; Lee, Ker-Ai; Gladman, Dafna D.) A conditional Markov model for clustered progressive multistate processes under incomplete observation. (English and French summaries)
Cooke, Tristrom A lower bound on the performance of the quadratic discriminant function. (English summary)
Coppi, Renato (*with* D'Urso, Pierpaolo) Three-way fuzzy clustering models for LR fuzzy time trajectories. (English summary) **2004d:62220**
Cornillon, P. A. *see* **Abraham, Christophe et al.**, **2004g:62111**
Cossu, Roberto *see* **Bruzzone, Lorenzo**, (**2004j:62010**)
da Costa, Joaquim Pinto *see* **Lerman, Israel et al.**, (**2004d:62005**)
Cox, Trevor F. *see* **Mahjub, Hossein**, **2004e:62119**

Csato, Lehel (*with* Opper, Manfred; Winther, Ole) Tractable inference for probabilistic data models. (English summary)
Cucumel, Guy *see* **Lapointe, François-Joseph**, (**2004d:62005**)
Cusano, Claudio (*with* La Torre, Davide) On support vector machines for data classification. (English summary) (*see* **2004g:90008**)
Cutrona, Jérôme *see* **Bonnet, Noël et al.**, (**2004d:62005**)
Dahmen, Jörg (*with* Keysers, Daniel; Ney, Hermann) Combined classification of handwritten digits using the 'virtual test sample method'. (English summary) (*see* **2004j:62010**)
Dai, Ho-Kwok (*with* Su, Hung-Chi) Approximation and analytical studies of inter-clustering performances of space-filling curves. (English summary) (*see* **2004j:60003**)
Damper, R. I. *see* **Higgins, J. E. et al.**, (**2004j:62010**)
Dasgupta, Sanjoy (*with* Pavlov, Elan; Singer, Yoram) An efficient PAC algorithm for reconstructing a mixture of lines. (English summary)
— Performance guarantees for hierarchical clustering. (English summary) (*see* **2004j:68006**)
Datta, Susmita (*with* Arnold, Jonathan) Some comparisons of clustering and classification techniques applied to transcriptional profiling data. (English summary)
Davidov, Ori (*with* Faraggi, David; Reiser, Benjamin) Misclassification in logistic regression with discrete covariates. (English summary)
Davy, Pamela J. (*with* Wheway, Virginia L.) Mean-variance edge plots for ensemble voting schemes. (English summary)
Debeir, Olivier *see* **Latinne, Patrice et al.**, (**2004j:62010**)
Decaestecker, Christine *see* **Latinne, Patrice et al.**, (**2004j:62010**)
Declerck, Lieven Bahadur parameter space. (*see* **2004g:62010**)
— *see also* **Claeskens, Gerda et al.**, (**2004g:62010**)
Deer, Peter J. (*with* Eklund, Peter) A study of parameter values for a Mahalanobis distance fuzzy classifier. (English summary) **2004g:62113**
DeGennaro, R. P. *see* **Bensmail, H.**, (**2004j:62012**)
De Gruttola, V. *see* **Foulkes, A. S. et al.**
Del Amo, A. (*with* Gómez González, Daniel; Montero de Juan, Francisco Javier) Spectral fuzzy classification system: a supervised approach. (English summary)
Denison, David G. T. *see* **Lawson, Andrew B.**, (**2004f:62020**) *and* **Ferreira, J. T. A. S. et al.**, (**2004f:62020**)
Diba, R. F (*with* Sharmin, S.; Sen, Kalipada) HANOVA for 2-factorial nested classification with equal number of observation per cell assuming error variances vary from cell to cell. (English summary)
Diday, Edwin *see* **Vrac, Mathieu et al.**, (**2004d:62005**)
Dietrich, Christian (*with* Schwenker, Friedhelm; Palm, Günther) Classification of time series utilizing temporal and decision fusion. (English summary) (*see* **2004j:62010**)
Dietterich, Thomas G. *see* **Margineantu, Dragos D.**, (**2004d:62006**)
Dodd, Lori E. (*with* Pepe, Margaret Sullivan) Semiparametric regression for the area under the receiver operating characteristic curve. (English summary) **2004e:62118**
Dodd, T. J. *see* **Higgins, J. E. et al.**, (**2004j:62010**)
Dongarra, Jack J. *see* **Heinrich, Kevin et al.**, (**2004j:62012**)
Döring, Christian *see* **Timm, Heiko et al.**
Doring, Valeria *see* **Hansen, Pierre et al.**, **2004j:62132**
Dougherty, Edward R. *see* **Zhou, Xiaobo et al.**
Drăguţ, Andreea Bogdana On the validity of a hierarchical structure for a modified Zupan algorithm. (English summary) **2004d:62221**
Dresen, Irina Gana *see* **Hüsing, Johannes et al.**
Du, Yunling *see* **Akritas, Michael G. et al.**
Ducinskas, Kestutis *see* **Saltyte, Jurate**, **2004h:62114**
Duczmal, Luiz (*with* Assunção, Renato) A simulated annealing strategy for the detection of arbitrarily shaped spatial clusters. (English summary)
Duin, Robert P. W. *see* **Skurichina, Marina**, (**2004j:62010**) *and* **Pękalska, Elżbieta**, (**2004j:62010**)
Dunson, David B. (*with* Chen, Zhen; Harry, Jean) A Bayesian approach for joint modeling of cluster size and subunit-specific outcomes. (English and French summaries)
D'Urso, Pierpaolo Fuzzy C-means clustering models for multivariate time-varying data: different approaches. (English summary)
— *see also* **Coppi, Renato**, **2004d:62220**
Eissenstat, David M. *see* **Akritas, Michael G. et al.**
Ekholm, Anders (*with* Jokinen, Jukka; McDonald, John W.; Smith, Peter W. F.) Joint regression and association modeling of longitudinal ordinal data. (English and French summaries)
Eklund, Peter *see* **Deer, Peter J.**, **2004g:62113**
Eldering, Annmarie *see* **Braverman, Amy et al.**
El Ghaoui, Laurent *see* **Lanckriet, Gert R. G. et al.**, **2004h:62111**
Elisseeff, André *see* **Weston, Jason et al.**, **2004c:62145**
Ertöz, Levent (*with* Steinbach, Michael; Kumar, Vipin) Finding topics in collections of documents: a shared nearest neighbor approach. (*see* **2004j:62005**)
Espinoza, José Luis Obtaining reducts with a genetic algorithm. (English summary) (*see* **2004d:62005**)
Evans, Scott R. (*with* Hosmer, David W., Jr.) Goodness of fit tests in mixed effects logistic models characterized by clustering. (English summary)
Eyheramendy, Susana *see* **Liu, Regina Y. C. et al.**, (**2004d:62007**)
Faes, Christel *see* **Aerts, Marc et al.**, (**2004g:62010**)
Fairhurst, M. C. *see* **Sirlantzis, K. et al.**, (**2004j:62010**)
Fang, Wei Wu *see* **Zhang, Junhua**, **2004d:62230**
Faraggi, David *see* **Davidov, Ori et al.**
Feng, Jiawu *see* **Cherepinsky, Vera et al.**, **2004g:62112**
Feng, Ziding *see* **Braun, Thomas M.** *and* **Yasui, Yutaka et al.**
Ferligoj, Anuška *see* **Kavšek, Branko et al.**, (**2004d:62005**)
Ferraty, Frédéric (*with* Vieu, Philippe) Curves discrimination: a nonparametric functional approach. (English summary)
Ferreira, J. T. A. S. (*with* Denison, David G. T.; Holmes, Christopher C.) Partition modelling. (*see* **2004f:62020**)
Ferro, Christopher A. T. (*with* Segers, Johan) Inference for clusters of extreme values. (English summary) **2004d:62222**
Fetzer, Eric *see* **Braverman, Amy et al.**
Fichet, Bernard *see* **Benayade, Mohammed**, **2004e:62117**
Fischer, Paul[1] *see* **Christmann, Andreas et al.**, (**2004a:62009**)
Forbelská, Marie A comparison of some parametric and nonparametric discrimination procedures. (English summary) **2004h:62108**
Forth, Shaun *see* **Ringrose, Trevor**, (**2004a:62009**)
Foulkes, A. S. (*with* De Gruttola, V.; Hertogs, K.) Combining genotype groups and recursive partitioning: an application to human immunodeficiency virus type 1 genetics data. (English summary)
Fraser, Andrew M. (*with* Hengartner, Nicolas W.; Vixie, Kevin R.; Wohlberg, Brendt E.) Classification modulo invariance, with application to face recognition. (English summary)
Fred, Ana Finding consistent clusters in data partitions. (English summary) (*see* **2004j:62010**)
Frigui, Hichem *see* **Rhouma, Mohamed Ben Hadj**
Fröba, Bernhard (*with* Zink, Walter) On the combination of different template matching strategies for fast face detection. (English summary) (*see* **2004j:62010**)
Frossyniotis, Dimitrios S. (*with* Stafylopatis, Andreas) A multi-SVM classification system. (English summary) (*see* **2004j:62010**)
Fu, Zhiwei (*with* Golden, Bruce L.; Lele, Shreevardhan; Raghavan, S.; Wasil, Edward) Genetically engineered decision trees: population diversity produces smarter trees. (English summary)
Fujikoshi, Yasunori Selection of variables for discriminant analysis in a high-dimensional case. (English summary) **2004k:62157**
Fumera, Giorgio (*with* Roli, Fabio) Error rejection in linearly combined multiple classifiers. (English summary) (*see* **2004j:62010**)
Fung, Hon-Kwok (*with* Li, Leong Kwan) Pricing discrete dynamic fund protections. (English summary)
Furlanello, Cesare *see* **Merler, Stefano et al.**, (**2004j:62010**)
Gabrys, Bogdan *see* **Ruta, Dymitr**, (**2004j:62010**)
Gallegos, María Teresa Maximum likelihood clustering with outliers. (English summary) (*see* **2004d:62005**)
Gamallo, Pablo Otero *see* **Noncheva, Veska et al.**
Gams, Matjaž *see* **Škrjanc, Maja**
Ganesalingam, Ganes S. (*with* Ganesh, Siva) Statistical discrimination based on absolute deviations from the mean. (English summary)
Ganesh, Siva *see* **Ganesalingam, Ganes S.**
Gao, Feng[2] (*with* Manatunga, Amita K.; Chen, Shande) Identification of prognostic factors with multivariate survival data. (English summary)
Gardner, Sugnet (*with* le Roux, Niel) Biplot methodology for discriminant analysis based upon robust methods and principal curves. (English summary) (*see* **2004d:62005**)
Garreta, Henri *see* **Guénoche, Alain**, (**2004d:62005**)
Gauthier, Olivier (*with* Lapointe, François-Joseph) A comparison of alternative methods for detecting reticulation events in phylogenetic analysis. (English summary) (*see* **2004d:62005**)
Gey, Servane (*with* Nedelec, Elodie) Risk bounds for CART regression trees. **2004g:62114**
Geys, Helena (*with* Molenberghs, Geert; Ryan, Louise M.) Generalized estimating equations. (*see* **2004g:62010**)
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Ghosh, Debashis Penalized discriminant methods for the classification of tumors from gene expression data. (English and French summaries)
Ghosh, Joydeep *see* **Strehl, Alexander**
Giacinto, Giorgio *see* **Roli, Fabio et al.**, (**2004j:62010**)
Gladman, Dafna D. *see* **Cook, Richard J. et al.**
Glen, J. J. Dichotomous categorical variable formation in mathematical programming discriminant analysis models. (English summary)
Globerson, Amir (*with* Tishby, Naftali) Sufficient dimensionality reduction. (English summary) **2004d:62223**
Godtliebsen, F. (*with* Marron, J. S.; Pizer, S. M.) Significance in scale-space for clustering. (*see* **2004f:62020**)
Golden, Bruce L. *see* **Fu, Zhiwei et al.**
Gómez González, Daniel *see* **Del Amo, A. et al.**
González, José C. *see* **Tapia, Elizabeth et al.**, (**2004j:62010**)
González-Barrios, José María (*with* Quiroz, Adolfo J.) A clustering procedure based on the comparison between the k nearest neighbors graph and the minimal spanning tree. (English summary) **2004a:62116**
Gordon, Allan D. (*with* Vichi, Maurizio) Obtaining partitions of a set of hard or fuzzy partitions. (English summary) (*see* **2004d:62005**)
Govaert, Gérard *see* **Jollois, François-Xavier et al.**, **2004h:62110**
Grégoire, Gérard *see* **Amato, Umberto et al.**, **2004d:62218**
Grim, Jiří (*with* Kittler, Josef; Pudil, Pavel; Somol, Petr) Information analysis of multiple classifier fusion. (English summary) (*see* **2004j:62010**)
Guénoche, Alain (*with* Garreta, Henri) Representation and evaluation of partitions. (English summary) (*see* **2004d:62005**)
Guha, Sudipto (*with* Rastogi, Rajeev; Shim, Kyuseok) Techniques for clustering massive data sets. (*see* **2004j:62005**)
Guo, Dongwei *see* **Zheng, Yan**[2] **et al.**
Gupal, A. M. (*with* Vagis, A. A.) Learning on Bayesian networks. (Russian. English, Russian and Ukrainian summaries)
Gupta, Arjun K. (*with* Kabe, D. G.) One-way classification ANOVA model for the mixture of two multivariate normal populations. (English summary) **2004f:62134**
Ha, Ming Hu (*with* Wang, Peng) Bounds for the uniform-convergence rate of learning processes on possibility spaces. (Chinese. English and Chinese summaries)
von Haeseler, Arndt *see* **Schmidt, Heiko A.**, (**2004d:62005**)
Han, Xu *see* **Yang, Xiaowei et al.**
Hand, David J. (*with* Adams, Niall M.; Kelly, Mark G.) Multiple classifier systems based on interpretable linear classifiers. (English summary) (*see* **2004j:62010**)
— (*with* Kelly, Mark G.) Superscorecards. (English summary)
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Hanfelt, John J. Composite conditional likelihood for sparse clustered data. (English summary)

Hansen, Pierre (*with* Jaumard, Brigitte; Meyer, Christophe; Simeone, Bruno; Doring, Valeria) Maximum split clustering under connectivity constraints. (English summary) **2004j:62132**
Hao, Zhi Feng *see* **Yang, Xiaowei et al.**
Hardin, Johanna (*with* Rocke, David M.) Outlier detection in the multiple cluster setting using the minimum covariance determinant estimator. (English summary)
Hardouin, J.-B. (*with* Mesbah, Mounir) Clustering binary variables in subscales using an extended Rasch model and Akaike information criterion. (English summary)
Hardy, André (*with* Lallemand, Pascale) Determination of the number of clusters for symbolic objects described by interval variables. (English summary) (*see* **2004d:62005**)
Har-Peled, Sariel (*with* Roth, Dan; Zimak, Dav) Constraint classification: a new approach to multiclass classification. (English summary)
Harper, Richard E. *see* **Vaidyanathan, Kalyanaraman et al.**
Harry, Jean *see* **Dunson, David B. et al.**
Hastie, Trevor J. (*with* Tibshirani, Robert; Narasimhan, Balasubramanian; Chu, Gilbert) Supervised learning from microarray data. (English summary) (*see* **2004a:62009**)
— *see also* **Zhu, Mu**, **2004b:62154**
He, Han Gen *see* **Wu, Tao et al.**
He, Ji[2] (*with* Tan, Ah-Hwee; Tan, Chew Lim; Sung, Sam-Yuan) On quantitative evaluation of clustering systems. (*see* **2004j:62005**)
He, Ming Ke *see* **Wu, Tao et al.**
He, Qing[1] (*with* Li, Hong Xing; Shi, Zhong Zhi; Lee, E. Stanley) Fuzzy clustering method based on perturbation. (English summary) **2004j:62133**
— (*with* Shi, Zhong Zhi; Ren, Li-An; Lee, E. Stanley) A novel classification method based on hypersurface. (English summary) **2004g:62115**
Heinrich, Kevin (*with* Berry, Michael W.; Dongarra, Jack J.; Vadhiyar, Sathish) The semantic conference organizer. (English summary) (*see* **2004j:62012**)
Henderson, Brent (*with* Jarrett, Richard) Models with errors due to misreported measurements. (English summary)
Hengartner, Nicolas W. *see* **Fraser, Andrew M. et al.**
Hennig, Christian Clusters, outliers, and regression: fixed point clusters. (English summary) **2004f:62135**
Herbin, Michel (*with* Bonnet, Noël) An improved method for estimating the modes of the probability density function and the number of classes for PDF-based clustering. (English summary) (*see* **2004d:62005**)
— *see also* **Bonnet, Noël et al.**, (**2004d:62005**)
Herbster, Mark Learning additive models online with fast evaluating kernels. (English summary) (*see* **2004j:68005**)
Herrera, Norma *see* **Baeza-Yates, Ricardo et al.**, (**2004j:62005**)
Hertogs, K. *see* **Foulkes, A. S. et al.**
Higgins, J. E. (*with* Dodd, T. J.; Damper, R. I.) Application of multiple classifier techniques to subband speaker identification with an HMM/ANN system. (English summary) (*see* **2004j:62010**)
Hirano, Shoji (*with* Sun, Xiaoguang; Tsumoto, Shusaku) Comparison of clustering methods for clinical databases. (English summary)
Hirose, Nobuyoshi *see* **Hirotsu, Chihiro et al.**
Hirotsu, Chihiro (*with* Ohta, Eri; Hirose, Nobuyoshi; Shimizu, Kenichiro) Profile analysis of 24-hours measurements of blood pressure. (English and French summaries)
Ho, Tin Kam Data complexity analysis for classifier combination. (English summary) (*see* **2004j:62010**)
Holden, Sean *see* **Wickramaratna, Jeevani et al.**, (**2004j:62010**)
Holmes, Christopher C. *see* **Ferreira, J. T. A. S. et al.**, (**2004f:62020**)
Hong, Ying-Yi (*with* Chao, Zuei-Tien; Yang, Miin-Shen) A fuzzy multiple linear regression based loss formula in electric distribution systems. (English summary)
Höppner, Frank (*with* Klawonn, Frank) Improved fuzzy partitions for fuzzy regression models. (English summary) **2004c:62142**
Hoque, M. S. *see* **Sirlantzis, K. et al.**, (**2004j:62010**)
Horn, Paul S. (*with* Wolfe, Douglas A.) Extending Comtet's decomposability of integer permutations. (English summary)
Hoshino, Nobuaki Random clustering based on the conditional inverse Gaussian-Poisson distribution. (English summary) **2004m:62145**
Hosmer, David W., Jr. *see* **Evans, Scott R.**
Hothorn, Torsten (*with* Lausen, Berthold) Bagging combined classifiers. (English summary) (*see* **2004d:62005**)
— (*with* Lausen, Berthold) Bagging tree classifiers for glaucoma diagnosis. (English summary) (*see* **2004a:62009**)
Hsu, Li *see* **Yasui, Yutaka et al.**
Huang, Houkuan *see* **Yu, Jian et al.**, **2004k:62160** *and* **Errata: "Counterexamples to convergence theorem of maximum-entropy clustering algorithm"**
Huang, Jian[4] *see* **Pawitan, Yudi**
Huang, Peng[2] *see* **Chen, Dechang et al.**, **2004h:62107**
Huang, Zhexue (*with* Ng, Michael K.) A note on K-modes clustering. (English summary)
Hubert, Mia (*with* Van Driessen, Katrien) Fast and robust discriminant analysis. (English summary)
Hunt, Lynette (*with* Jorgensen, Murray) Unsupervised learning from incomplete data using a mixture model approach. (English summary) (*see* **2004j:62012**)
Hunter, Steven W. *see* **Vaidyanathan, Kalyanaraman et al.**
Hüsing, Johannes (*with* Dresen, Irina Gana; Jöckel, Karl-Heinz) Quest for a sensible null distribution in longitudinal microarray experiments. (English summary)
Huynh Van Nam *see* **San, Ohn Mar et al.**
Hwang, Pei-Yuan *see* **Yang, Miin-Shen et al.**
Ichino, Manabu Neighborhood graphs in classification problems for symbolic data. (English summary)
(Iglesias, Pilar Loreto) *see* **Liu, Jun S. et al.**, (**2004g:62009**)
Ignat'ev, N. A. An iterative method for constructing linear hulls and informative sets of classes in recognition problems. (Russian. English, Russian and Ukrainian summaries)
Jain, Anil K. *see* **Prabhakar, Salil**, (**2004j:62010**)
James, Gareth M. (*with* Sugar, Catherine A.) Clustering for sparsely sampled functional data. (English summary) **2004h:62109**
— *see also* **Sugar, Catherine A.**, **2004h:62117**
Janowitz, Melvin F. *see* **Bertrand, Patrice**, **2004c:62141**
Jarrett, Richard *see* **Henderson, Brent**
Jaumard, Brigitte *see* **Hansen, Pierre et al.**, **2004j:62132**
Jayram, A. K. V. Sai (*with* Murty, M. Narasimha) Clustering for prototype selection using singular value decomposition. (English summary) (*see* **2004d:62005**)
Jeon, Moongu *see* **Park, Haesun et al.**, **2004h:62113**
Jeon, Yongho *see* **Lin, Yi**[5], **2004d:62224**
Jevtić, Nikola *see* **Klautau, Aldebaro et al.**
Jiao, Li Cheng *see* **Zhou, Wei Da et al.**
Joachims, Thorsten *see* **Christmann, Andreas et al.**, (**2004a:62009**)
Jöckel, Karl-Heinz *see* **Hüsing, Johannes et al.**
Jokinen, Jukka *see* **Ekholm, Anders et al.**
Jollois, François-Xavier (*with* Nadif, Mohamed; Govaert, Gérard) Assessing the number of clusters of the latent class model. (English summary) **2004h:62110**
Jordan, Michael I. *see* **Lanckriet, Gert R. G. et al.**, **2004h:62111**
Jorgensen, Murray *see* **Hunt, Lynette**, (**2004j:62012**)
Jorgensen, Thomas Martini (*with* Linneberg, Christian) Feature weighted ensemble classifiers—a modified decision scheme. (English summary) (*see* **2004j:62010**)
Jörnsten, Rebecka Clustering and classification based on the L_1 data depth. (English summary)
Kabe, D. G. *see* **Gupta, Arjun K.**, **2004f:62134**
Kavšek, Branko (*with* Lavrač, Nada; Ferligoj, Anuška) Hierarchical clustering of multiple decision trees. (English summary) (*see* **2004d:62005**)
Keane, Andy J. *see* **Nair, Prasanth B. et al.**, **2004d:62226**
Kégl, Balázs *see* **Antos, András et al.**, **2004c:62140**
Kelly, Mark G. *see* **Hand, David J. et al.**, (**2004j:62010**)
Ketskeméty, László Fast search for nearest neighbors. (Hungarian. English and Hungarian summaries)
— Effectiveness of nearest neighbor classification with optimal scaling. (Hungarian. English and Hungarian summaries)
Keysers, Daniel *see* **Dahmen, Jörg et al.**, (**2004j:62010**)
Khurodze, R. *see* **Verulava, O.**, **2004a:62119**
Kim, Bo-Hwa (*with* Kim, Kyuseong) Improvements of K-modes algorithm and ROCK algorithm. (Korean. English and Korean summaries)
Kim, Hyunjoong (*with* Loh, Wei-Yin) Classification trees with bivariate linear discriminant node models. (English summary)
Kim, Kyuseong *see* **Kim, Bo-Hwa**
Kim, Seong-Hee *see* **Chang, Woojin et al.**, **2004j:62131**
Kim, Sung-Jun *see* **Yoon, Yeo-Hun et al.**, (**2004a:62009**)
Kim, Young-Sang *see* **Yoon, Yeo-Hun et al.**, (**2004a:62009**)
Kinateder, Kimberly K. J. *see* **Tarpey, Thaddeus**, **2004c:62143**
Kittler, Josef (*with* Alkoot, F. M.) Relationship of sum and vote fusion strategies. (English summary) (*see* **2004j:62010**)
— *see also* **Grim, Jiřiet al.**, (**2004j:62010**); **Windridge, D.**, (**2004j:62010**) *and* **Alkoot, F. M.**, (**2004j:62010**)
Klaschka, Jan *see* **Savický, Petr**, (**2004a:62009**)
Klautau, Aldebaro (*with* Jevtić, Nikola; Orlitsky, Alon) On nearest-neighbor error-correcting output codes with application to all-pairs multiclass support vector machines. (English summary)
Klawonn, Frank *see* **Höppner, Frank**, **2004c:62142**
Kocsor, András *see* **Kovács, Kornél**, **2004k:62158**
Kogan, Jacob Computational information retrieval. (English summary) (*see* **2004f:62019**)
Koltchinskii, Vladimir (*with* Panchenko, Dmitriĭ Anatol'evich; Lozano, Fernando) Further explanation of the effectiveness of voting methods: the game between margins and weights. (English summary) (*see* **2004j:68005**)
— *see also* **Bousquet, Olivier et al.**, (**2004j:68006**)
Koutras, Markos V. *see* **Vassiliou, A. et al.**
Kovács, Kornél (*with* Kocsor, András) Various hyperplane classifiers using kernel feature spaces. (English summary) **2004k:62158**
Krause, Dorit (*with* Richter, Wolf-Dieter) Exact probabilities of correct classifications for uncorrelated repeated measurements from elliptically contoured distributions. (English summary) **2004m:62146**
Kruse, Rudolf *see* **Timm, Heiko et al.**
Krzyżak, Adam Nonlinear function learning and classification using RBF networks with optimal kernels. (English summary) (*see* **2004d:62006**)
Kumar, Vipin *see* **Ertöz, Levent et al.**, (**2004j:62005**)
Kuncheva, Ludmila I. (*with* Whitaker, Christopher J.) Feature subsets for classifier combination: an enumerative experiment. (English summary) (*see* **2004j:62010**)
— (*with* Roli, Fabio; Marcialis, G. L.; Shipp, C. A.) Complexity of data subsets generated by the random subspace method: an experimental investigation. (English summary) (*see* **2004j:62010**)
Kuppens, Peter *see* **Ceulemans, Eva et al.**
van der Laan, Mark J. (*with* Pollard, Katherine S.; Bryan, Jennifer) A new partitioning around medoids algorithm. (English summary)
— (*with* Pollard, Katherine S.) A new algorithm for hybrid hierarchical clustering with visualization and the bootstrap. (English summary)
Lai, Hung-Ren *see* **Wong, Ching-Chang**
Lallemand, Pascale *see* **Hardy, André**, (**2004d:62005**)
Lambert, Philippe *see* **Vandenhende, François**, **2004c:62121**
Lanckriet, Gert R. G. (*with* El Ghaoui, Laurent; Bhattacharyya, Chiranjib; Jordan, Michael I.) A robust minimax approach to classification. (English summary) **2004h:62111**
Langdon, W. B. (*with* Buxton, Bernard) Genetic programming for improved receiver operating characteristics. (English summary) (*see* **2004j:62010**)
Lange, Tilman *see* **Roth, Volker et al.**, (**2004a:62009**)
Lapointe, François-Joseph (*with* Cucumel, Guy) Multiple consensus trees. (English summary) (*see* **2004d:62005**)
— *see also* **Gauthier, Olivier**, (**2004d:62005**) *and* **Levasseur, Claudine**, (**2004d:62005**)
Larcher, Barbara *see* **Merler, Stefano et al.**, (**2004j:62010**)

Lari, Isabella Connected maximum split clustering of ladder graphs. (English summary) **2004b:62152**
Latinne, Patrice (*with* Debeir, Olivier; Decaestecker, Christine) Limiting the number of trees in random forests. (English summary) (*see* **2004j:62010**)
La Torre, Davide *see* **Cusano, Claudio**, (**2004g:90008**)
Lausen, Berthold *see* **Hothorn, Torsten**, (**2004a:62009**); (**2004d:62005**) *and* **Peters, Andrea**
LaViolette, Randall A. *see* **Tolle, Charles R. et al.**, **2004d:62228**
Lavrač, Nada *see* **Kavšek, Branko et al.**, (**2004d:62005**)
Lawrence, Charles E. *see* **Liu, Jun S. et al.**, (**2004g:62009**)
Lawson, Andrew B. (*with* Denison, David G. T.) Spatial cluster modelling: an overview. (*see* **2004f:62020**)
Lechevallier, Yves *see* **Chavent, Marie**, (**2004d:62005**)
Lee, E. Stanley *see* **He, Qing[1] et al.**, **2004g:62115** *and* **2004j:62133**
Lee, Ker-Ai *see* **Cook, Richard J. et al.**
Lee, Yoonkyung (*with* Lin, Yi[5]; Wahba, Grace) Multicategory support vector machines: theory and application to the classification of microarray data and satellite radiance data. (English summary) **2004m:62147**
— *see also* **Wahba, Grace et al.**, (**2004d:62006**)
Lele, Shreevardhan *see* **Fu, Zhiwei et al.**
Lerman, Israel (*with* da Costa, Joaquim Pinto; Silva, Helena) Validation of very large data sets clustering by means of a nonparametric linear criterion. (English summary) (*see* **2004d:62005**)
Łęski, Jacek M. Robust possibilistic clustering. (English summary) **2004i:62116**
— Computationally effective algorithm to the ε-insensitive fuzzy clustering. (English summary)
— Towards a robust fuzzy clustering. (English summary) **2004g:62116**
— Fuzzy c-varieties/elliptotypes clustering in reproducing kernel Hilbert space. (English summary)
— Kernel Ho-Kashyap classifier with generalization control. (English summary)
Leung, Kelvin *see* **Braverman, Amy et al.**
Levasseur, Claudine (*with* Lapointe, François-Joseph) A family of average consensus methods for weighted trees. (English summary) (*see* **2004d:62005**)
Li, Hong Xing *see* **He, Qing[1] et al.**, **2004j:62133**
Li, Leong Kwan *see* **Fung, Hon-Kwok**
Li, Yong[7] (*with* Wang, Jian Bo) The consistency of a splitting rule in classification and regression trees. (Chinese. English and Chinese summaries) **2004a:62117**
Li, Zhao *see* **Sung, Sam-Yuan et al.**, (**2004j:62005**)
Liang, Yan Chun *see* **Yang, Xiaowei et al.** *and* **Zheng, Yan[2] et al.**
Limam, Mohamed Mehdi *see* **Vrac, Mathieu et al.**, (**2004d:62005**)
Lin, Daying *see* **Yang, Xiaowei et al.**
Lin, Juan K. Targeted clustering of nonlinearly transformed Gaussians. (*see* **2004d:62006**)
Lin, Yi[5] (*with* Jeon, Yongho) Discriminant analysis through a semiparametric model. (English summary) **2004d:62224**
— *see also* **Lee, Yoonkyung et al.**, **2004m:62147** *and* **Wahba, Grace et al.**, (**2004d:62006**)
Linder, Tamás *see* **Antos, András et al.**, **2004c:62140**
Ling, Tok W. *see* **Sung, Sam-Yuan et al.**, (**2004j:62005**)
Linneberg, Christian *see* **Jørgensen, Thomas Martini**, (**2004j:62010**)
Liu, Aiyi (*with* Schisterman, Enrique F.) Comparison of diagnostic accuracy of biomarkers with pooled assessments. (English summary) **2004f:62136**
Liu, Gui-Rong *see* **Yang, Xiaowei et al.**
Liu, Jian *see* **Chen, De Chang**, (**2004j:62010**)
Liu, Jun S. (*with* Zhang, Junni L.; Palumbo, Michael J.; Lawrence, Charles E.) Bayesian clustering with variable and transformation selections. (English summary) (*see* **2004g:62009**)
Liu, Regina Y. C. (*with* Madigan, David; Eyheramendy, Susana) Text classification for mining massive aviation inspection reports. (English summary) (*see* **2004d:62007**)
Liu, Zhenqiu (*with* Bozdogan, Hamparsum) Improving the performance of radial basis function (RBF) classification using information criteria. (English summary) (*see* **2004j:62012**)
Loh, Wei-Yin *see* **Kim, Hyunjoong**
Lopes, Gabriel *see* **Noncheva, Veska et al.**
Loslever, P. (*with* Popieul, J. C.; Simon, Philippe) From classic statistical characterization to fuzzy windowing based characterization for the exploratory analysis of miscellaneous time variables: example in the field of car driving studies. (English summary) **2004g:62117**
Louis, Thomas A. *see* **Wang, Zengri**, **2004j:62135**
Louw, N. *see* **Steel, S. J.**
Lozano, Fernando *see* **Koltchinskii, Vladimir et al.**, (**2004j:68005**)
Lugosi, Gábor *see* **Antos, András et al.**, **2004c:62140**
Luttrell, S. P. A self-organising approach to multiple classifier fusion. (English summary) (*see* **2004j:62010**)
Madigan, David *see* **Liu, Regina Y. C. et al.**, (**2004d:62007**)
Maeda, Eisaku *see* **Suzuki, Jun et al.**
Mahjub, Hossein (*with* Cox, Trevor F.) Screening for a multivariate mixture normal distribution. (English and Persian summaries) **2004e:62119**
Makarenkov, Vladimir Comparison of four methods for inferring additive trees from incomplete dissimilarity matrices. (English summary) (*see* **2004d:62005**)
Malyscheff, A. M. *see* **Trafalis, T. B.**
Manatunga, Amita K. *see* **Gao, Feng[2] et al.**
Marcelloni, Francesco Feature selection based on a modified fuzzy C-means algorithm with supervision. (English summary) **2004d:62225**
Marcialis, G. L. *see* **Kuncheva, Ludmila I. et al.**, (**2004j:62010**)
Margineantu, Dragos D. (*with* Dietterich, Thomas G.) Improved class probability estimates from decision tree models. (English summary) (*see* **2004d:62006**)
Markellos, K. *see* **Sirmakessis, S. et al.**, (**2004j:62012**)
Markellou, P. *see* **Sirmakessis, S. et al.**, (**2004j:62012**)
Marron, J. S. *see* **Godtliebsen, F. et al.**, (**2004f:62020**)
Marti, U.-V. (*with* Bunke, Horst) Use of positional information in sequence alignment for multiple classifier combination. (English summary) (*see* **2004j:62010**)
Matzner-Løber, Eric *see* **Abraham, Christophe et al.**, **2004g:62111**
Mayritsakis, G. *see* **Sirmakessis, S. et al.**, (**2004j:62012**)
McDonald, John W. *see* **Ekholm, Anders et al.**
McJunkin, Timothy R. *see* **Tolle, Charles R. et al.**, **2004d:62228**
McKeown, G. P. *see* **Al-Harbi, S. H. et al.**, (**2004j:62012**)
Merbouha, A. (*with* Mkhadri, A.) Regularization of the location model in discrimination with mixed discrete and continuous variables. (English summary)
Merler, Stefano (*with* Furlanello, Cesare; Larcher, Barbara; Sboner, Andrea) Tuning cost-sensitive boosting and its application to melanoma diagnosis. (English summary) (*see* **2004j:62010**)
Mesbah, Mounir *see* **Hardouin, J.-B.**
Meyer, Christophe *see* **Hansen, Pierre et al.**, **2004j:62132**
Miglio, Rossella (*with* Soffritti, Gabriele) The comparison between classification trees through proximity measures. (English summary)
Mishra, Bud *see* **Cherepinsky, Vera et al.**, **2004g:62112**
Mkhadri, A. *see* **Merbouha, A.**
Molenberghs, Geert *see* **Geys, Helena et al.**, (**2004g:62010**) *and* **Renard, Didier et al.**, (**2004g:62010**)
Molinari, Nicolas *see* **Abraham, Christophe et al.**, **2004g:62111**
Montanari, Angela Linear discriminant analysis and transvariation. (English summary)
Montero de Juan, Francisco Javier *see* **Del Amo, A. et al.**
Mukherjee, Sayan *see* **Poggio, Tomaso et al.**, (**2004m:65003**)
Murtagh, Fionn Clustering in high-dimensional data spaces. (English summary) (*see* **2004d:62005**)
Murty, M. Narasimha *see* **Jayram, A. K. V. Sai**, (**2004d:62005**)
Nadif, Mohamed *see* **Jollois, François-Xavier et al.**, **2004h:62110**
Nair, Prasanth B. (*with* Choudhury, Arindam; Keane, Andy J.) Some greedy learning algorithms for sparse regression and classification with Mercer kernels. (English summary) **2004d:62226**
Nakamori, Yoshiteru *see* **San, Ohn Mar et al.**
Narasimhan, Balasubramanian *see* **Hastie, Trevor J. et al.**, (**2004a:62009**)
Navarro, Gonzalo *see* **Baeza-Yates, Ricardo et al.**, (**2004j:62005**)
Nedelec, Elodie *see* **Gey, Servane**, **2004g:62114**
Ney, Hermann *see* **Dahmen, Jörg et al.**, (**2004j:62010**)
Ng, Michael K. *see* **Yip, Kevin Y. et al.** *and* **Huang, Zhexue**
Nguyen, Danh V. (*with* Rocke, David M.) On partial least squares dimension reduction for microarray-based classification: a simulation study. (English summary)
Nittel, Silvia *see* **Braverman, Amy et al.**
Noel, Steven (*with* Raghavan, Vijay V.; Chu, C.-H. Henry) Document clustering, visualization, and retrieval via link mining. (*see* **2004j:62005**)
Noncheva, Veska (*with* Gamallo, Pablo Otero; Agustini, Alexandre; Lopes, Gabriel) A stochastic approach for finding of semantically related words. (English summary)
Oblinger, Daniel *see* **Vilalta, Ricardo**
O'Brien, Sean M. Cutpoint selection for categorizing a continuous predictor. (English and French summaries)
Ohta, Eri *see* **Hirotsu, Chihiro et al.**
Olman, V. (*with* Xu, Dong[1]; Xu, Ying[1]) Solving data clustering problem as a string search problem. (English summary) (*see* **2004j:62012**)
Olson, Timothy Edward (*with* Pang, Jong-Shi; Priebe, Carey) A likelihood-MPEC approach to target classification. (English summary) **2004h:62112**
Opper, Manfred *see* **Csato, Lehel et al.**
Orlitsky, Alon *see* **Klautau, Aldebaro et al.**
Oza, Nikunj C. (*with* Tumer, Kagan) Input decimation ensembles: decorrelation through dimensionality reduction. (English summary) (*see* **2004j:62010**)
Palm, Günther *see* **Dietrich, Christian et al.**, (**2004j:62010**) *and* **Schwenker, Friedhelm**, (**2004j:62010**)
Palumbo, Michael J. *see* **Liu, Jun S. et al.**, (**2004g:62009**)
Panagopoulou, Georgia *see* **Sirmakessis, S. et al.**, (**2004j:62012**)
Panchenko, Dmitriĭ Anatol'evich *see* **Bousquet, Olivier et al.**, (**2004j:68006**) *and* **Koltchinskii, Vladimir et al.**, (**2004j:68005**)
Pang, Jong-Shi *see* **Olson, Timothy Edward et al.**, **2004h:62112**
Park, Haesun (*with* Jeon, Moongu; Rosen, J. Ben) Lower dimensional representation of text data based on centroids and least squares. (English summary) **2004h:62113**
Paschinger, Elisabeth *see* **Schöll, Joachim**, (**2004d:62005**)
Pavlenko, Tatjana Feature informativeness in high-dimensional discriminant analysis. (English summary) **2004b:62153**
— On feature selection, curse-of-dimensionality and error probability in discriminant analysis. (English summary) **2004e:62120**
Pavlov, Elan *see* **Dasgupta, Sanjoy et al.**
Pawitan, Yudi (*with* Huang, Jian[4]) Constrained clustering of irregularly sampled spatial data. (English summary)
Pękalska, Elżbieta (*with* Duin, Robert P. W.) On combining dissimilarity representations. (English summary) (*see* **2004j:62010**)
(Peña, Daniel) *see* **Liu, Jun S. et al.**, (**2004g:62009**)
Pepe, Margaret Sullivan *see* **Dodd, Lori E.**, **2004e:62118** *and* **Yasui, Yutaka et al.**
Perdikouri, K. *see* **Sirmakessis, S. et al.**, (**2004j:62012**)
Peters, Andrea (*with* Lausen, Berthold) Direct and indirect classification in clinical research. (English summary)
Pillati, Marilena (*with* Calò, Daniela G.) A clustering based procedure for learning the hidden unit parameters in elliptical basis function networks. (English summary) (*see* **2004d:62005**)
Pires, Ana M. Robust linear discriminant analysis and the projection pursuit approach. Practical aspects. (English summary) (*see* **2004a:62010**)
Pizer, S. M. *see* **Godtliebsen, F. et al.**, (**2004f:62020**)
Poggio, Tomaso (*with* Mukherjee, Sayan; Rifkin, Ryan; Raklin, A.; Verri, Alessandro) *b*. (English summary) (*see* **2004m:65003**)
— (*with* Smale, Stephen) The mathematics of learning: dealing with data. **2004i:62117**
Pollard, Katherine S. *see* **van der Laan, Mark J. et al.**
Popieul, J. C. *see* **Loslever, P. et al.**, **2004g:62117**
Pötzelberger, Klaus Quantization of models: local approach and asymptotically optimal partitions. (English summary) (*see* **2004d:62005**)

Prabhakar, Salil (*with* Jain, Anil K.) Decision-level fusion in fingerprint verification. (English summary) (*see* **2004j:62010**)
Priebe, Carey *see* **Olson, Timothy Edward et al., 2004h:62112**
Pudil, Pavel *see* **Grim, Jiřiet al., (2004j:62010)**
Purkayastha, Sumitra *see* **Basu, Ayanendranath et al.**
Qannari, E. M. *see* **Vigneau, E.**
(Quintana, Fernando A.) *see* **Liu, Jun S. et al., (2004g:62009)**
Quiroz, Adolfo J. *see* **González-Barrios, José María, 2004a:62116**
Radavičius, M. *see* **Rudzkis, R., 2004j:62134**
(Raftery, Adrian E.) *see* **Liu, Jun S. et al., (2004g:62009)**
Raghavan, S. *see* **Fu, Zhiwei et al.**
Raghavan, Vijay V. *see* **Noel, Steven et al., (2004j:62005)**
Rahnenführer, Jörg Statistical inference for clustering microarrays. (*see* **2004d:62006**)
Raju, B. M. K. (*with* Bhatia, V. K.) Bias in the estimates of sensitivity from incomplete $G \times E$ tables. (English and Hindi summaries)
Raklin, A. *see* **Poggio, Tomaso et al., (2004m:65003)**
Rastogi, Rajeev *see* **Guha, Sudipto et al., (2004j:62005)**
Raudys, Šarūnas (*with* Young, Dean M.) Results in statistical discriminant analysis: a review of the former Soviet Union literature. (English summary)
Rayward-Smith, V. J. *see* **Al-Harbi, S. H. et al., (2004j:62012)**
Reiser, Benjamin *see* **Davidov, Ori et al.**
Rejali, Marc *see* **Cherepinsky, Vera et al., 2004g:62112**
Ren, Li-An *see* **He, Qing[1] et al., 2004g:62115**
Renard, Didier (*with* Molenberghs, Geert) Multilevel modeling of complex survey data. (*see* **2004g:62010**)
— (*with* Molenberghs, Geert; Geys, Helena) A pairwise likelihood approach to estimation in multilevel probit models. (English summary)
Rhouma, Mohamed Ben Hadj (*with* Frigui, Hichem) A biological approach to clustering data sets. (English summary)
Richter, Wolf-Dieter Central limit theorem for probabilities of correct classification. (English summary) **2004a:62118**
— *see also* **Krause, Dorit, 2004m:62146**
Rifkin, Ryan *see* **Poggio, Tomaso et al., (2004m:65003)**
Ringrose, Trevor (*with* Forth, Shaun) Improved fitting of constrained multivariate regression models using automatic differentiation. (English summary) (*see* **2004a:62009**)
(Robert, Christian P.) *see* **Liu, Jun S. et al., (2004g:62009)**
Robinson, John *see* **Anderson, Marti J., 2004f:62133**
Rocke, David M. (*with* Woodruff, David L.) Computational connections between robust multivariate analysis and clustering. (*see* **2004a:62009**)
— *see also* **Hardin, Johanna** *and* **Nguyen, Danh V.**
Rodríguez Diez, Juan J. (*with* Alonso González, Carlos J.) Learning classification RBF networks by boosting. (English summary) (*see* **2004j:62010**)
Rohrbaugh, David T. *see* **Tolle, Charles R. et al., 2004d:62228**
Rojas, Alex *see* **Acuña, Edgar et al., (2004d:62005)**
Roli, Fabio (*with* Giacinto, Giorgio; Vernazza, Gianni) Methods for designing multiple classifier systems. (English summary) (*see* **2004j:62010**)
— *see also* **Fumera, Giorgio, (2004j:62010)** *and* **Kuncheva, Ludmila I. et al., (2004j:62010)**
Römisch, Ute *see* **V″ndev, Dimit″r L.**
Rosen, J. Ben *see* **Park, Haesun et al., 2004h:62113**
Roth, Dan *see* **Har-Peled, Sariel et al.**
Roth, Volker (*with* Lange, Tilman; Braun, Mikio; Buhmann, Joachim M.) A resampling approach to cluster validation. (English summary) (*see* **2004a:62009**)
le Roux, Niel *see* **Gardner, Sugnet, (2004d:62005)**
Rubinov, Aleksandr M. *see* **Bagirov, Adil M. et al., 2004a:62115**
Rudzkis, R. (*with* Radavičius, M.) Testing hypotheses on discriminant space in the mixture model of Gaussian distributions. (English summary) **2004j:62134**
Ruta, Dymitr (*with* Gabrys, Bogdan) Application of the evolutionary algorithms for classifier selection in multiple classifier systems with majority voting. (English summary) (*see* **2004j:62010**)
Ryan, Louise M. Issues in modeling clustered data. (*see* **2004g:62010**)
— *see also* **Geys, Helena et al., (2004g:62010)**
Salicrú, M. (*with* Arcas, A.) An algorithm to obtain additive trees based upon the preservation of the clusters structure. (English summary) **2004d:62227**
Saltyte, Jurate (*with* Ducinskas, Kestutis) Asymptotic expansion of expected error rate in discrimination of two spatial regression models. (English summary) **2004h:62114**
San, Ohn Mar (*with* Huynh Van Nam; Nakamori, Yoshiteru) A clustering algorithm for mixed numeric and categorical data. (English summary)
— (*with* Huynh Van Nam; Nakamori, Yoshiteru) An alternative extension of the k-means algorithm for clustering categorical data. (English summary)
Saporta, Gilbert *see* **da Silva, Ana Lorga et al., (2004d:62005)**
Sarychev, A. P. A scheme of sliding examination for determining the optimal set of features in a problem of discriminant analysis. (Russian. English, Russian and Ukrainian summaries)
Sasaki, Yutaka *see* **Suzuki, Jun et al.**
Sato, Yoshiharu The performance of an autonomous clustering technique. (English summary) (*see* **2004d:62005**)
Sato-Ilic, Mika On kernel based fuzzy cluster loadings with the interpretation of the fuzzy clustering result. (English summary) **2004k:62159**
Savický, Petr (*with* Klaschka, Jan) Optimally trained regression trees and Occam's razor. (English summary) (*see* **2004a:62009**)
Sboner, Andrea *see* **Merler, Stefano et al., (2004j:62010)**
Schisterman, Enrique F. *see* **Liu, Aiyi, 2004f:62136**
Schmidt, Heiko A. (*with* von Haeseler, Arndt) Quartet trees as a tool to reconstruct large trees from sequences. (English summary) (*see* **2004d:62005**)
Schoier, Gabriella Blockmodeling techniques for web mining. (English summary) (*see* **2004a:62009**)
Schölkopf, Bernhard Statistical learning theory, capacity, and complexity. (English summary)
— *see also* **Weston, Jason et al., 2004c:62145**
Schöll, Joachim (*with* Paschinger, Elisabeth) Cluster analysis by restricted random walks. (English summary) (*see* **2004d:62005**)
Schwenker, Friedhelm (*with* Palm, Günther) Tree-structured support vector machines for multi-class pattern recognition. (English summary) (*see* **2004j:62010**)
— *see also* **Dietrich, Christian et al., (2004j:62010)**
Seco, Maria Alexandra (*with* St. Aubyn, António) A random-effects log-linear model with Poisson distributions. (English summary)
Seeger, Matthias PAC-Bayesian generalisation error bounds for Gaussian process classification. (English summary) **2004h:62115**
Segers, Johan *see* **Ferro, Christopher A. T., 2004d:62222**
Sen, Kalipada *see* **Diba, R. F et al.**
Serikova, E. V. *see* **Zhuk, E. E., 2004i:62118**
Sharmin, S. *see* **Diba, R. F et al.**
Shen, Xiaotong (*with* Tseng, George C.; Zhang, Xue Gong; Wong, Wing Hung) On ψ-learning. (English summary) **2004h:62116**
Shi, Hongbo *see* **Yu, Jian et al., 2004k:62160** *and* **Errata: "Counterexamples to convergence theorem of maximum-entropy clustering algorithm"**
Shi, Zhong Zhi *see* **He, Qing[1] et al., 2004g:62115** *and* **2004j:62133**
Shih, Yu-Shan A note on split selection bias in classification trees. (English summary)
Shim, Kyuseok *see* **Guha, Sudipto et al., (2004j:62005)**
Shimizu, Kenichiro *see* **Hirotsu, Chihiro et al.**
Shipp, C. A. *see* **Kuncheva, Ludmila I. et al., (2004j:62010)**
da Silva, Ana Lorga (*with* Bacelar-Nicolau, Helena; Saporta, Gilbert) Missing data in hierarchical classification of variables—a simulation study. (English summary) (*see* **2004d:62005**)
Silva, Helena *see* **Lerman, Israel et al., (2004d:62005)**
de Silva, Vin (*with* Tenenbaum, Joshua B.) Unsupervised learning of curved manifolds. (English summary) (*see* **2004d:62006**)
Simeone, Bruno *see* **Hansen, Pierre et al., 2004j:62132**
Simon, Philippe *see* **Loslever, P. et al., 2004g:62117**
Singer, Yoram *see* **Dasgupta, Sanjoy et al.**
Sirlantzis, K. (*with* Fairhurst, M. C.; Hoque, M. S.) Genetic algorithms for multi-classifier system configuration: a case study in character recognition. (English summary) (*see* **2004j:62010**)
Sirmakessis, S. (*with* Markellos, K.; Markellou, P.; Mayritsakis, G.; Perdikouri, K.; Tsakalidis, Athanasios K.; Panagopoulou, Georgia) STING: evaluation of scientific & technological innovation and progress in Europe through patents. (*see* **2004j:62012**)
Škrjanc, Maja (*with* Gams, Matjaž) Some aspects of support vector machine. (English summary)
Skurichina, Marina (*with* Duin, Robert P. W.) Bagging and the random subspace method for redundant feature spaces. (English summary) (*see* **2004j:62010**)
Slavkovic, Aleksandra B. Automated scoring of polygraph data. (English summary) (*see* **2004j:62012**)
Smale, Stephen *see* **Poggio, Tomaso, 2004i:62117**
Smith, Peter W. F. *see* **Ekholm, Anders et al.**
Smits, Paul C. Combining supervised remote sensing image classifiers based on individual class performances. (English summary) (*see* **2004j:62010**)
Soffritti, Gabriele Identifying multiple cluster structures in a data matrix. (English summary)
— *see also* **Miglio, Rossella**
Somol, Petr *see* **Grim, Jiřiet al., (2004j:62010)**
Sondhauß, Ursula (*with* Weihs, Claus) Standardized partition spaces. (English summary) (*see* **2004a:62009**)
Stafylopatis, Andreas *see* **Frossyniotis, Dimitrios S., (2004j:62010)**
St. Aubyn, António *see* **Seco, Maria Alexandra**
Steel, S. J. (*with* Louw, N.) An integrated approach to outlier identification and variable selection in discriminant analysis. (English summary)
Steinbach, Michael *see* **Ertöz, Levent et al., (2004j:62005)**
Stiller, J. C. Adaptive online learning of generative stochastic models. (English summary)
Strehl, Alexander (*with* Ghosh, Joydeep) Cluster ensembles—a knowledge reuse framework for combining multiple partitions. (English summary)
Su, Hung-Chi *see* **Dai, Ho-Kwok, (2004j:60003)**
Sueyoshi, Toshiyuki Mixed integer programming approach of extended DEA-discriminant analysis. (English summary)
Sugar, Catherine A. (*with* James, Gareth M.) Finding the number of clusters in a dataset: an information-theoretic approach. (English summary) **2004h:62117**
— *see also* **James, Gareth M., 2004h:62109**
Sun, Xiaoguang *see* **Hirano, Shoji et al.**
Sun, Xichen *see* **Yu, Jian et al., 2004k:62160** *and* **Errata: "Counterexamples to convergence theorem of maximum-entropy clustering algorithm"**
Sung, Sam-Yuan (*with* Li, Zhao; Ling, Tok W.) Clustering techniques for large database cleansing. (*see* **2004j:62005**)
— *see also* **He, Ji[2] et al., (2004j:62005)**
Suzuki, Jun (*with* Sasaki, Yutaka; Maeda, Eisaku) Question type classification using word attribute N-gram and statistical machine learning. (Japanese. English and Japanese summaries)
Sveinsson, Johannes R. *see* **Briem, Gunnar Jakob et al., (2004j:62010)**
Tambouratzis, D. G. *see* **Vassiliou, A. et al.**
Tan, Ah-Hwee *see* **He, Ji[2] et al., (2004j:62005)**
Tan, Chew Lim *see* **He, Ji[2] et al., (2004j:62005)**
Tapia, Elizabeth (*with* González, José C.; Villena, Julio) A generalized class of boosting algorithms based on recursive decoding models. (English summary) (*see* **2004j:62010**)
Tarpey, Thaddeus (*with* Kinateder, Kimberly K. J.) Clustering functional data. (English summary) **2004c:62143**
Tenenbaum, Joshua B. *see* **de Silva, Vin, (2004d:62006)**
Tibshirani, Robert *see* **Hastie, Trevor J. et al., (2004a:62009)**
Timm, Heiko (*with* Döring, Christian; Kruse, Rudolf) Different approaches to fuzzy clustering of incomplete datasets. (English summary)
Tipping, Michael E. *see* **Weston, Jason et al., 2004c:62145**
Tishby, Naftali *see* **Globerson, Amir, 2004d:62223**

Tolle, Charles R. (*with* McJunkin, Timothy R.; Rohrbaugh, David T.; LaViolette, Randall A.) Lacunarity definition for ramified data sets based on optimal cover. (English summary) **2004d:62228**
Trafalis, T. B. (*with* Malyscheff, A. M.) Optimal selection of the regression kernel matrix with semidefinite programming. (English summary)
Trejos, Javier *see* **Castillo Elizondo, William**, (**2004d:62005**)
Trivedi, Kishor S. *see* **Vaidyanathan, Kalyanaraman et al.**
Tsakalidis, Athanasios K. *see* **Sirmakessis, S. et al.**, (**2004j:62012**)
Tseng, George C. *see* **Shen, Xiaotong et al.**, **2004h:62116**
Tsumoto, Shusaku *see* **Hirano, Shoji et al.**
Tsybakov, A. B. Optimal aggregation of classifiers in statistical learning. (English summary) **2004m:62148**
Tumer, Kagan *see* **Oza, Nikunj C.**, (**2004j:62010**)
Vadhiyar, Sathish *see* **Heinrich, Kevin et al.**, (**2004j:62012**)
Vagis, A. A. *see* **Gupal, A. M.**
Vaidyanathan, Kalyanaraman (*with* Harper, Richard E.; Hunter, Steven W.; Trivedi, Kishor S.) Analysis of software rejuvenation in cluster systems using stochastic reward nets. (English summary)
Vandenhende, François (*with* Lambert, Philippe) Improved rank-based dependence measures for categorical data. (English summary) **2004e:62121**
Vanderhaegen, Frédéric *see* **Zhang, Zhicheng**, (**2004j:62012**)
Van Driessen, Katrien *see* **Hubert, Mia**
Van Mechelen, Iven *see* **Ceulemans, Eva et al.**
Vassiliou, A. (*with* Tambouratzis, D. G.; Koutras, Markos V.; Bersimis, S.) A new similarity measure and its use in determining the number of clusters in a multivariate data set. (English summary)
Vernazza, Gianni *see* **Roli, Fabio et al.**, (**2004j:62010**)
Verri, Alessandro *see* **Poggio, Tomaso et al.**, (**2004m:65003**)
Verulava, O. (*with* Khurodze, R.) Clustering analysis and decision-making by "rank of links". (English summary) **2004a:62119**
Vichi, Maurizio *see* **Gordon, Allan D.**, (**2004d:62005**)
Vidakovic, Brani *see* **Chang, Woojin et al.**, **2004j:62131**
Vieu, Philippe *see* **Ferraty, Frédéric**
Vigneau, E. (*with* Qannari, E. M.) Clustering of variables around latent components. (English summary)
Vilalta, Ricardo (*with* Oblinger, Daniel) Evaluation metrics in classification: a quantification of distance-bias. (English summary)
Villena, Julio *see* **Tapia, Elizabeth et al.**, (**2004j:62010**)
Vixie, Kevin R. *see* **Fraser, Andrew M. et al.**
V″ndev, Dimit″r L. (*with* Römisch, Ute) Comparing several methods of discriminant analysis on the case of wine data. (English summary)
Vos, Hans J. Application of Bayesian decision theory to constrained classification networks. (English summary) (*see* **2004d:62005**)
Vrac, Mathieu (*with* Diday, Edwin; Winsberg, Suzanne; Limam, Mohamed Mehdi) Symbolic class descriptions. (English summary) (*see* **2004d:62005**)
Wahba, Grace (*with* Lin, Yi[5]; Lee, Yoonkyung; Zhang, Hao[3]) Optimal properties and adaptive tuning of standard and nonstandard support vector machines. (English summary) (*see* **2004d:62006**)
— *see also* **Lee, Yoonkyung et al.**, **2004m:62147**
Wang, Hui[2] *see* **Zhou, Yan Jun et al.**
Wang, Jian Bo *see* **Li, Yong[7]**, **2004a:62117**
Wang, Peng *see* **Ha, Ming Hu**
Wang, Sheng-De *see* **Yang, Tai-Ning**
Wang, Shuang Cheng *see* **Zhou, Yan Jun et al.**
Wang, Xiaodong[3] *see* **Zhou, Xiaobo et al.**
Wang, Zeng Min The nearest choosing problem of fuzzy forecasting based on the fuzzy cause-effect clustering analysis. (Chinese. English and Chinese summaries)
Wang, Zengri (*with* Louis, Thomas A.) Matching conditional and marginal shapes in binary random intercept models using a bridge distribution function. (English summary) **2004j:62135**
Wasil, Edward *see* **Fu, Zhiwei et al.**
Wei, Lai Sheng (*with* Chen, Jiahua) Empirical Bayes estimation and its superiority for two-way classification model. (English summary) **2004c:62144**
Weihs, Claus *see* **Sondhauß, Ursula**, (**2004a:62009**)
Wen, Ji-Rong (*with* Zhang, Hong-Jiang) Query clustering in the web context. (*see* **2004j:62005**)
Weston, Jason (*with* Elisseeff, André; Schölkopf, Bernhard; Tipping, Michael E.) Use of the zero-norm with linear models and kernel methods. (English summary) **2004c:62145**
Wheway, Virginia L. *see* **Davy, Pamela J.**
Whitaker, Christopher J. *see* **Kuncheva, Ludmila I.**, (**2004j:62010**)
Wickramaratna, Jeevani (*with* Holden, Sean; Buxton, Bernard) Performance degradation in boosting. (English summary) (*see* **2004j:62010**)
Williams, Paige L. (*with* Geys, Helena) Individual level covariates. (*see* **2004g:62010**)
Windridge, D. (*with* Kittler, Josef) Classifier combination as a tomographic process. (English summary) (*see* **2004j:62010**)
Winsberg, Suzanne *see* **Vrac, Mathieu et al.**, (**2004d:62005**)
Winther, Ole *see* **Csato, Lehel et al.**
Wohlberg, Brendt E. *see* **Fraser, Andrew M. et al.**
Wolfe, Douglas A. *see* **Horn, Paul S.**
Wong, Ching-Chang (*with* Lai, Hung-Ren) A grey-based clustering algorithm and its application on fuzzy system design. (English summary)
Wong, Wing Hung *see* **Shen, Xiaotong et al.**, **2004h:62116**
Woodruff, David L. *see* **Rocke, David M.**, (**2004a:62009**)
Wu, Tao (*with* He, Han Gen; He, Ming Ke) Interpolation based kernel function's construction. (Chinese. English and Chinese summaries)
Wywiał, Janusz On estimation of population averages on the basis of cluster sample. (English summary) (*see* **2004d:62005**)
Xu, Dong[1] *see* **Olman, V. et al.**, (**2004j:62012**)
Xu, Ying[1] *see* **Olman, V. et al.**, (**2004j:62012**)
Yang, Jian (*with* Yang, Jing Yu; Ye, Hui) Theory of Fisher linear discriminant analysis and its application. (Chinese. English and Chinese summaries)
Yang, Jing Yu *see* **Yang, Jian et al.**
Yang, Miin-Shen (*with* Hwang, Pei-Yuan; Chen, De-Hua) Fuzzy clustering algorithms for mixed feature variables. (English summary)
— *see also* **Hong, Ying-Yi et al.**
Yang, Shie-Shien *see* **Al-Shiha, A. A.**
Yang, Tai-Ning (*with* Wang, Sheng-De) Competitive algorithms for the clustering of noisy data. (English summary)
Yang, Xiaowei (*with* Lin, Daying; Hao, Zhi Feng; Liang, Yan Chun; Liu, Gui-Rong; Han, Xu) A fast SVM training algorithm based on the set segmentation and k-means clustering. (English summary)
Yasui, Yutaka (*with* Pepe, Margaret Sullivan; Hsu, Li; Adam, Bao-Ling; Feng, Ziding) Partially supervised learning using an EM-boosting algorithm. (English and French summaries)
Ye, Hui *see* **Yang, Jian et al.**
Yearwood, John *see* **Bagirov, Adil M. et al.**, **2004a:62115**
Yi, Grace Y. *see* **Cook, Richard J. et al.**
Yip, Kevin Y. (*with* Ng, Michael K.; Cheung, David W.) A review on projected clustering algorithms. (English summary)
Yoon, Yeo-Hun (*with* Kim, Young-Sang; Kim, Sung-Jun; Yum, Bong-Jin) Development of a framework for analyzing process monitoring data with applications to semiconductor manufacturing process. (English summary) (*see* **2004a:62009**)
Young, Dean M. *see* **Raudys, Šarūnas**
Yu, Chang-Yung (*with* Zhang, He Ping[1]) Use of a secondary splitting criterion in classifying forest construction. (*see* **2004j:62012**)
Yu, Jian On the fuzziness index of the FCM algorithms. (Chinese. English and Chinese summaries)
— (*with* Shi, Hongbo; Huang, Houkuan; Sun, Xichen; Cheng, Qian Sheng) Counterexamples to convergence theorem of maximum-entropy clustering algorithm. (English summary) **2004k:62160**
(Yu, Jian[2]) *see* **Errata: "Counterexamples to convergence theorem of maximum-entropy clustering algorithm"**
Yuan, Ke-Hai (*with* Bentler, Peter M.) Eight test statistics for multilevel structural equation models. (English summary)
Yum, Bong-Jin *see* **Yoon, Yeo-Hun et al.**, (**2004a:62009**)
Zahm, Jean-Marie *see* **Bonnet, Noël et al.**, (**2004d:62005**)
Žák, Libor Clustering of vaguely defined objects. (English summary) **2004d:62229**
Zhang, Hao[3] *see* **Wahba, Grace et al.**, (**2004d:62006**)
Zhang, He Ping[1] *see* **Yu, Chang-Yung**, (**2004j:62012**)
Zhang, Hong-Jiang *see* **Wen, Ji-Rong**, (**2004j:62005**)
Zhang, Junhua (*with* Fang, Wei Wu) A new approach of information discrepancy to analysis of questionnaire data. (English summary) **2004d:62230**
Zhang, Junni L. *see* **Liu, Jun S. et al.**, (**2004g:62009**)
Zhang, Li[5] *see* **Zhou, Wei Da et al.**
Zhang, Xue Gong *see* **Shen, Xiaotong et al.**, **2004h:62116**
Zhang, Zhicheng (*with* Vanderhaegen, Frédéric) A method integrating self-organizing maps to predict the probability of barrier removal. (English summary) (*see* **2004j:62012**)
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Zhou, Chun Guang *see* **Zheng, Yan[2] et al.**
Zhou, Wei Da (*with* Zhang, Li[5]; Jiao, Li Cheng) An improved principle for measuring generalization performance. (Chinese. English and Chinese summaries)
Zhou, Xiaobo (*with* Wang, Xiaodong[3]; Dougherty, Edward R.) A Bayesian approach to nonlinear probit gene selection and classification. (English summary)
Zhou, Yan Jun (*with* Wang, Shuang Cheng; Wang, Hui[2]) Research for the classifiers based on Bayesian networks. (Chinese. English and Chinese summaries)
Zhu, Mu (*with* Hastie, Trevor J.) Feature extraction for nonparametric discriminant analysis. (English summary) **2004b:62154**
Zhuk, E. E. (*with* Avramenko, N. A.) Cluster analysis of autoregression time series in the space of maximum likelihood estimators of the autoregression parameters. (Russian. English and Russian summaries) **2004j:62136**
— (*with* Serikova, E. V.) Cluster analysis of multivariate Gaussian observations in the space of principal components. (Russian. English and Russian summaries) **2004i:62118**
Zimak, Dav *see* **Har-Peled, Sariel et al.**
Zink, Walter *see* **Fröba, Bernhard**, (**2004j:62010**)

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Errata:
"Counterexamples to convergence theorem of maximum-entropy clustering algorithm" Erratum: "Counterexamples to convergence theorem of maximum-entropy clustering algorithm" [Sci. China Ser. F **46** (2003), no. 5, 321–326] by J. Yu, H. Shi, H. Huang, X. Sun and Q. Cheng.

Items with secondary classifications in 62H30

Abe, Naoki (*with* Biermann, Alan W.; Long, Philip M.) Reinforcement learning with immediate rewards and linear hypotheses. (English summary) **2004i:68091**
Abry, Patrice *see* **Hohn, Nicolas et al.**, **2004h:68149**
Aerts, Marc *see* **Topics in modelling of clustered data**, **2004g:62010** *and* **Claeskens, Gerda**, (**2004g:62010**)
Akaho, Shotaro *see* **Tsuda, Koji et al.**
d'Alché-Buc, Florence (*with* Ralaivola, Liva) Incremental learning algorithms for classification and regression: local strategies. (English summary) (*see* **2004d:00014**)
Alexandridis, Roxana *see* **Lin, Shili**, (**2004d:62008**)
Allefeld, Carsten (*with* Kurths, Jürgen) An approach to multivariate phase synchronization analysis and its application to event-related potentials. (English summary)
Asai, Kiyoshi[2] *see* **Tsuda, Koji et al.**
Atanasov, Dimitar (*with* Prodanova, K.; Terziiski, D.) Risk factors of central venous catheter related infections in intensive care patients. (English summary)

Atkinson, Anthony C. (*with* Riani, Marco; Cerioli, Andrea) ★ Exploring multivariate data with the forward search. **2004m:62001**
Azen, Stanley P. *see* **Jones, Jason et al.**
Baggenstoss, Paul M. The PDF projection theorem and the class-specific method. (English summary) **2004c:94035**
Bagirov, Adil M. (*with* Rubinov, Aleksandr M.; Sukhorukova, N. V.; Yearwood, John) An algorithm for clustering based on non-smooth optimization techniques. (English summary)
— (*with* Rubinov, Aleksandr M.; Sukhorukova, N. V.; Yearwood, John) Unsupervised and supervised data classification via nonsmooth and global optimization. (English summary) **2004e:90080**
Bargiela, Andrzej (*with* Pedrycz, Witold) From numbers to information granules: a study in unsupervised learning and feature analysis. (English summary) (*see* **2004f:68136**)
— (*with* Pedrycz, Witold; Hirota, Kaoru) Data granulation through optimization of similarity measure. (English summary)
Barone, Piero *see* **de Pasquale, Francesco et al.**
Batagelj, Vladimir *see* **Korenjak-Černe, Simona**, (**2004d:62005**)
Bavaud, François Quotient dissimilarities, Euclidean embeddability, and Huygens' weak principle. (English summary) **2004h:62103**
Bellamy, Scarlett *see* **Li, Yi[8] et al.**, **2004h:62180**
Below, Eike *see* **Biebler, Karl-Ernst et al.**
Benfenati, Emilio *see* **Gini, Giuseppina et al.**, (**2004j:62010**)
Bengio, Y. *see* **Dugas, C. et al.**, (**2004k:62016**)
Bennell, Craig *see* **Taylor, Paul J. et al.**, (**2004d:62005**)
Beran, Jan ★ Statistics in musicology. **2004i:62004**
Bhatti, M. I. On cluster effects in mining complex econometric data. (English summary) (*see* **2004j:62012**)
Biebler, Karl-Ernst (*with* Jäger, Bernd; Wodny, Michael; Below, Eike) Mixed data type and topological classification. (English summary)
Biermann, Alan W. *see* **Abe, Naoki et al.**, **2004i:68091**
(Bock, Hans-Hermann) *see* **Classification, clustering, and data analysis**, **2004d:62005**
Bonetti, Marco (*with* Forsberg, Laura; Ozonoff, Al; Pagano, Marcello) The distribution of interpoint distances. (*see* **2004k:92003**)
Boros, Endre (*with* Horiyama, Takashi; Ibaraki, Toshihide; Makino, Kazuhisa; Yagiura, Mutsunori) Finding essential attributes from binary data. (English summary) **2004j:68151**
Bose, Smarajit *see* **Ghosh, Anil Kumar**
Brambilla, Raffaella *see* **Gini, Giuseppina et al.**, (**2004j:62010**)
Bratcher, Tom L. *see* **Stamey, James D. et al.**
Braun, John *see* **Maindonald, John H.**
Brazma, Alvis *see* **Vilo, Jaak et al.**, (**2004e:62008**)
Broom, Bradley *see* **Do, Kim-Anh et al.**, (**2004e:62008**)
Bühlmann, Peter (*with* Yu, Bin[1]) Analyzing bagging. (English summary) **2004b:62110**
— (*with* Yu, Bin[1]) Boosting with the L_2 loss: regression and classification. (English summary) **2004e:62087**
— *see also* **Dettling, Marcel**
Buja, Andreas *see* **Gous, Alan**
(Bunke, Horst) *see* **Hybrid methods in pattern recognition**, **2004f:68136**
Butte, Atul J. (*with* Kohane, Isaac S.) Relevance networks: a first step toward finding genetic regulatory networks within microarray data. (English summary) (*see* **2004e:62008**)
Butz, A. Martin V. ★ Anticipatory learning classifier systems. **2004h:68112**
Cannon, Adam H. (*with* Cowen, Lenore J.) Approximation algorithms for the class cover problem. (English summary) **2004k:68064**
Canova, Fabio Testing for convergence clubs in income per capita: a predictive density approach. (English summary) **2004m:91172**
Caro Carretero, Raquel Fuzzy logic techniques in the non-life insurance industry. (*see* **2004k:62016**)
Castellano, Giovanna (*with* Fanelli, Anna Maria; Mencar, Corrado) Generation of interpretable fuzzy granules by a double-clustering technique. (English summary)
Catalano, Paul J. *see* **Regan, Meredith M.**, (**2004g:62010**)
Cerioli, Andrea *see* **Atkinson, Anthony C. et al.**, **2004m:62001**
Chambers, Raymond L. *see* **Zhang, Li-Chun**
Chang, Jun Lin *see* **Yan, Wei Wu et al.**
Chapados, N. *see* **Dugas, C. et al.**, (**2004k:62016**)
Chatterjee, Nilanjan A two-stage regression model for epidemiological studies with multivariate disease classification data. (English summary)
Chehikian, Alain *see* **Hory, Cyril et al.**, **2004c:94047**
Chen, Danny Z. *see* **Wu, Xiaodong et al.**
Chen, Di[1] *see* **Jeong, Myong K. et al.**, **2004j:62220**
Chen, Shi Fu *see* **Gao, Yang[2] et al.**
Cheng, Si Xin *see* **Demirli, K. et al.**
Chinipardaz, Rahim Discrimination in seismology based on autocovariances. (English summary)
— (*with* Cox, Trevor F.) Nonparametric discrimination of time series data. (English summary)
Claeskens, Gerda (*with* Aerts, Marc) Assessing the fit of a model. (*see* **2004g:62010**)
Clark, A. B. (*with* Lawson, Andrew B.) Spatio-temporal cluster modelling of small area health data. (*see* **2004f:62020**)
Clayton, M. K. *see* **Gangnon, R. E.**, **2004h:62191**
Clemens, J. *see* **Sismilich, M. et al.**
Clutter, Michael *see* **Hall, Daniel B.**
Coelho, Carlos A. *see* **Silva, Joaquim et al.**
Cohen, Shimon (*with* Intrator, Nathan) Automatic model selection in a hybrid perceptron/radial network. (English summary) (*see* **2004j:62010**)
Cook, Richard J. *see* **Yi, Grace Y.**, (**2004k:62018**)
Corcoran, Chris (*with* Ryan, Louise M.) Exact dose-response inference. (*see* **2004g:62010**)
Cowen, Lenore J. *see* **Cannon, Adam H.**, **2004k:68064**
Cox, Trevor F. *see* **Chinipardaz, Rahim**
Craighead, Steve (*with* Klemesrud, Bruce) System intelligence and active stock trading. (*see* **2004k:62016**)
Cramer, J. S. ★ Logit models from economics and other fields. **2004j:62003**
Crichton, Daniel J. (*with* Hughes, J. Steven; Kelly, Sean) A science data system architecture for information retrieval. (*see* **2004j:62005**)
Cui, Sufang (*with* Sun, Yanqing) Checking for the gamma frailty distribution under the marginal proportional hazards frailty model. (English summary) **2004k:62230**
Declerck, Lieven Quantitative risk assessment. (*see* **2004g:62010**)
Dedene, G. *see* **Viaene, S. et al.**, (**2004k:62016**)
Demirci, Mustafa On many-valued partitions and many-valued equivalence relations. (English summary) **2004d:03115**
Demirli, K. (*with* Cheng, Si Xin; Muthukumaran, P.) Subtractive clustering based modeling of job sequencing with parametric search. (English summary)
(Denison, David G. T.) *see* **Spatial cluster modelling**, **2004f:62020**
Denoncourt, G. *see* **Dugas, C. et al.**, (**2004k:62016**)
Derrig, R. A. *see* **Viaene, S. et al.**, (**2004k:62016**)
Dettling, Marcel (*with* Bühlmann, Peter) Finding predictive gene groups from microarray data. (English summary)
Dhillon, Inderjit S. (*with* Mallela, Subramanyam; Kumar, Rahul) A divisive information-theoretic feature clustering algorithm for text classification. (English summary) **2004e:94017**
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Dmitriev, A. V. *see* **Dolenko, S. A. et al.**, (**2004j:62010**)
Do, Kim-Anh (*with* Broom, Bradley; Wen, Sijin) GeneClust. (English summary) (*see* **2004e:62008**)
Dolenko, S. A. (*with* Orlov, Yu. V.; Persiantsev, I. G.; Shugai, J. S.; Dmitriev, A. V.; Suvorova, A. V.; Veselovsky, I. S.) Solar wind data analysis using self-organizing hierarchical neural network classifiers. (English summary) (*see* **2004j:62010**)
Dolničar, Sara (*with* Leisch, Friedrich) Testing for structural change over time of brand attribute perceptions in market segments. (English summary) (*see* **2004j:62012**)
Domański, Czesław (*with* Kondrasiuk, Jarosław) AHP as support for strategy decision making in banking. (English summary) (*see* **2004d:62005**)
Domingo-Ferrer, Josep (*with* Torra, Vicenç) Towards fuzzy c-means based microaggregation. (English summary) (*see* **2004a:62013**)
Domingos, Pedro (*with* Hulten, Geoff) A general framework for mining massive data streams. (English summary)
Dugas, C. (*with* Bengio, Y.; Chapados, N.; Vincent, P.; Denoncourt, G.; Fournier, C.) Statistical learning algorithms applied to automobile insurance ratemaking. (*see* **2004k:62016**)
Duin, Robert P. W. *see* **Tax, David M. J.**, (**2004j:62010**)
Dustmann, Christian (*with* van Soest, Arthur) An analysis of speaking fluency of immigrants using ordered response models with classification errors. (English summary)
Elisseeff, André *see* **Weston, Jason et al.**
Ellis, Steven P. Instability in nonlinear estimation and classification: examples of a general pattern. (English summary) (*see* **2004d:62006**)
Erosheva, Elena A. Partial membership models with application to disability survey data. (English summary) (*see* **2004j:62012**)
Eskin, Eleazar *see* **Weston, Jason et al.**, **2004h:68116**
Evans, Jai *see* **Lemkin, Peter F. et al.**, (**2004e:62008**)
Fagiuoli, Enrico *see* **Zaffalon, Marco**
Falk, Michael (*with* Marohn, Frank; Tewes, Bernward) ★ Foundations of statistical analyses and applications with SAS. **2004e:62002**
Fan, Juanjuan *see* **Su, Xiaogang**
Fanelli, Anna Maria *see* **Castellano, Giovanna et al.**
Ferger, Dietmar Boundary estimation based on set-indexed empirical processes. (English summary) **2004m:62082**
Filar, Jerzy A. (*with* Ross, N. Phillip; Wu, Ming-Lu) Environmental assessment based on multiple indicators. (English summary)
Foggia, P. (*with* Sansone, C.; Tortorella, F.; Vento, M.) Automatic classification of clustered microcalcifications by a multiple classifier system. (English summary) (*see* **2004j:62010**)
Forsberg, Laura *see* **Bonetti, Marco et al.**, (**2004k:92003**)
Forster, Jürgen (*with* Schmitt, Niels; Simon, Hans Ulrich) Estimating the optimal margins of embeddings in Euclidean half spaces. (English summary) (*see* **2004j:68005**)
— (*with* Simon, Hans Ulrich) On the smallest possible dimension and the largest possible margin of linear arrangements representing given concept classes uniform distribution. (English summary)
Fournier, C. *see* **Dugas, C. et al.**, (**2004k:62016**)
Frey, Gabriel (*with* Michel, Christian J.) Circular codes in archaeal genomes. (English summary)
Friedman, Jerome H. (*with* Stuetzle, Werner) John W. Tukey's work on interactive graphics. (English summary) **2004c:62004**
Friel, N. *see* **Pettitt, A. N. et al.**, **2004a:62015**
Fung, Glenn M. (*with* Mangasarian, Olvi L.; Smola, Alexander J.) Minimal kernel classifiers. (English summary) **2004m:68204**
(Gabrys, Bogdan) *see* **Integration of methods and hybrid systems**
Gandar, P. W. *see* **Sismilich, M. et al.**
Gangnon, R. E. (*with* Clayton, M. K.) Cluster modelling for disease rate mapping. **2004h:62191**
Gao, Yang[2] (*with* Chen, Shi Fu; Lu, Xin) Research on reinforcement learning technology: a review. (Chinese. English and Chinese summaries)
Garrett, Elizabeth S. *see* **Parmigiani, Giovanni et al.**, (**2004e:62008**)
Gavinsky, Dmitry Optimally-smooth adaptive boosting and application to agnostic learning. (English summary)
van der Genugten, B. B. *see* **Raats, V. M. et al.**, **2004k:62255**
Geys, Helena (*with* Molenberghs, Geert; Ryan, Louise M.) Pseudo-likelihood estimation. (*see* **2004g:62010**)
— (*with* Molenberghs, Geert) Pseudo-likelihood inference. (*see* **2004g:62010**)
— *see also* **Topics in modelling of clustered data**, **2004g:62010**
Ghaderi, Reza (*with* Windeatt, Terry) Least squares and estimation measures via error correcting output code. (English summary) (*see* **2004j:62010**)

Ghosh, Anil Kumar (*with* Bose, Smarajit) Backfitting neural networks. (English summary)
Gini, Giuseppina (*with* Lorenzini, Marco; Benfenati, Emilio; Brambilla, Raffaella; Malvé, Luca) Mixing a symbolic and a subsymbolic expert to improve carcinogenicity prediction of aromatic compounds. (English summary) (*see* **2004j:62010**)
Glen, J. J. An iterative mixed integer programming method for classification accuracy maximizing discriminant analysis. (English summary) **2004b:90072**
Glynn, Robert J. *see* **Rosner, Bernard et al., 2004j:62098**
Gogate, Adheet S. *see* **Zou, Kelly H. et al.**
Goh, Su Lee *see* **Mandic, Danilo P. et al.**
Gous, Alan (*with* Buja, Andreas) Visual comparison of datasets using mixture decompositions. (English summary)
Gray, Robert M. Gauss mixture quantization: clustering Gauss mixtures. (English summary) (*see* **2004d:62006**)
Grozeva, Neli *see* **Tsvetanova, Yanka**
Guéguen, Laurent Segmentation by maximal predictive partitioning according to composition biases. (English summary) (*see* **2004j:92001**)
Gyllenberg, Helge G. (*with* Gyllenberg, Mats; Koski, Timo; Lund, Tatu; Mannila, Heikki; Meek, Christopher) Singling out ill-fit items in a classification. Application to the taxonomy of *Enterobacteriaceae*. (English summary)
Gyllenberg, Mats *see* **Gyllenberg, Helge G. et al.**
Hall, Daniel B. (*with* Clutter, Michael) Multivariate multilevel nonlinear mixed effects models for timber yield predictions. (English and French summaries)
Hampel, Frank Some thoughts about classification. (English summary) **2004h:62010**
Hanna, Andrew Ian *see* **Mandic, Danilo P. et al.**
Hao, Peiyi *see* **Yue, Shi Hong et al.**
Hartono, Pitoyo (*with* Hashimoto, Shuji) Learning-data selection mechanism through neural networks ensemble. (English summary) (*see* **2004j:62010**)
Hashimoto, Shuji *see* **Hartono, Pitoyo, (2004j:62010)**
Hausdorf, Bernhard *see* **Hennig, Christian**
Hennig, Christian (*with* Hausdorf, Bernhard) Distance-based parametric bootstrap tests for clustering of species ranges. (English summary)
Herbrich, Ralf (*with* Williamson, Robert C.) Algorithmic luckiness. (English summary) **2004f:68127**
Hirota, Kaoru *see* **Bargiela, Andrzej et al.**
Hitczenko, Paweł ★ Probabilistic analysis of sorting algorithms.
Hohn, Nicolas (*with* Veitch, Darryl; Abry, Patrice) Cluster processes: a natural language for network traffic. (English summary) **2004h:68149**
Horiyama, Takashi *see* **Boros, Endre et al., 2004j:68151**
Hory, Cyril (*with* Martin, Nadine; Chehikian, Alain) Spectrogram segmentation by means of statistical features for non-stationary signal interpretation. (English summary) **2004c:94047**
Hothorn, Torsten *see* **Peters, Andrea et al., (2004d:62005)**
Howland, Peg (*with* Jeon, Moongu; Park, Haesun) Structure preserving dimension reduction for clustered text data based on the generalized singular value decomposition. (English summary) **2004h:15015**
Huang, Wei[5] (*with* Nakamori, Yoshiteru; Wang, Shou Yang; Yu, Lean) Forecasting Nikkei 225 index with support vector machine. (English summary)
Hughes, J. Steven *see* **Crichton, Daniel J. et al., (2004j:62005)**
Hüllermeier, Eyke Possibilistic instance-based learning. (English summary) **2004m:68205**
Hulten, Geoff *see* **Domingos, Pedro**
Ibaraki, Toshihide *see* **Boros, Endre et al., 2004j:68151**
Iglesias, Pilar Loreto *see* **Quintana, Fernando A., 2004d:62020**
Inada, Koichi *see* **Tokushige, Shuichi et al.**
Intrator, Nathan *see* **Cohen, Shimon, (2004j:62010)**
Irizarry, Rafael A. *see* **Parmigiani, Giovanni et al., (2004e:62008)**
Ishii, Hiroaki[1] *see* **Noguchi, Hiroshi[2]**
Jäger, Bernd *see* **Biebler, Karl-Ernst et al.**
Jain, Sonia (*with* Neal, Radford M.) A split-merge Markov chain Monte Carlo procedure for the Dirichlet process mixture model. (English summary)
(Jajuga, Krzysztof) *see* **Classification, clustering, and data analysis, 2004d:62005**
Jameson, P. E. *see* **Sismilich, M. et al.**
Jarosz-Nowak, Joanna On some methods of assessment of interrater reliability for nominal and ordinal data. (English summary)
Jeon, Moongu *see* **Howland, Peg et al., 2004h:15015**
Jeong, Myong K. (*with* Chen, Di[1]; Lu, Jye-Chyi) thresholded scalogram and its applications in process fault detection. (English summary) **2004j:62220**
Jones, Jason (*with* Stahl, Doug; Nichol, Michael; Azen, Stanley P.) Enabling clinically based knowledge discovery in pharmacy claims data: an application in bioinformatics. (English summary)
Jörnsten, Rebecka (*with* Vardi, Yehuda; Zhang, Cun-Hui) A robust clustering method and visualization tool based on data depth. (English summary) (*see* **2004d:62007**)
Joshi, Rajani R. *see* **Subramanian, Jyothi**
Kak, Subhash *see* **Rajagopal, Pritam**
Kalai, Gil Learnability of rationality of choice. (English summary) **2004h:91039**
(Kandel, Abraham) *see* **Hybrid methods in pattern recognition, 2004f:68136**
Kapushesky, Misha *see* **Vilo, Jaak et al., (2004e:62008)**
(Kass, Robert E.) *see* **van der Linde, Angelika, (2004g:62009)**
Katsis, Athanassios (*with* Toman, Blaza) A Bayesian double sampling scheme for classifying binomial data. (English summary)
Kégl, Balázs (*with* Linder, Tamás; Lugosi, Gábor) Data-dependent margin-based generalization bounds for classification. (English summary) (*see* **2004j:68005**)
Kelly, Sean *see* **Crichton, Daniel J. et al., (2004j:62005)**
Kemmeren, Patrick *see* **Vilo, Jaak et al., (2004e:62008)**
Khattree, Ravindra *see* **Roy, Anuradha**
Kivinen, Jyrki (*with* Smola, Alexander J.; Williamson, Robert C.) Large margin classification for moving targets. (English summary)
Klemesrud, Bruce *see* **Craighead, Steve, (2004k:62016)**
Kohane, Isaac S. *see* **Sebastiani, Paola et al., (2004e:62008)** *and* **Butte, Atul J., (2004e:62008)**
Kojadinovic, Ivan Agglomerative hierarchical clustering of continuous variables based on mutual information. (English summary)
Komorowski, Jan *see* **Midelfart, Herman et al.**
Kondrasiuk, Jarosław *see* **Domański, Czesław, (2004d:62005)**
Koonin, Eugene *see* **Mirkin, Boris G., 2004f:92004**
Korenjak-Černe, Simona (*with* Batagelj, Vladimir) Symbolic data analysis approach to clustering large datasets. (English summary) (*see* **2004d:62005**)
Koski, Timo *see* **Gyllenberg, Helge G. et al.**
Kotecký, Roman Phase transitions: on a crossroads of probability and analysis. (English summary) (*see* **2004d:00016**)
Kou, Gang (*with* Liu, Xiantao; Peng, Yi[2]; Shi, Yong[1]; Wise, Morgan; Xu, Weixuan) Multiple criteria linear programming approach to data mining: models, algorithm designs and software development. (English summary) **2004j:90101**
Kumar, Rahul *see* **Dhillon, Inderjit S. et al., 2004e:94017**
Kurths, Jürgen *see* **Allefeld, Carsten**
van der Laan, Mark J. *see* **Pollard, Katherine S., (2004d:62006)**
Lacker, Kevin *see* **Perkins, Simon et al.**
Lægreid, Astrid *see* **Midelfart, Herman et al.**
Larrañaga, P. *see* **Peña, José M. et al.**
Larsen, David R. (*with* Speckman, Paul L.) Multivariate regression trees for analysis of abundance data. (English and French summaries)
Lausen, Berthold Bioinformatics and classification: the analysis of genome expression data. (English summary) (*see* **2004d:62005**)
— *see also* **Peters, Andrea et al., (2004d:62005)**
Lawson, Andrew B. *see* **Spatial cluster modelling, 2004f:62020** *and* **Clark, A. B., (2004f:62020)**
Lee, Donq-Liang Complex-valued neural associative memories: network stability and learning algorithm.
Lee, Mei-Ling Ting *see* **Rosner, Bernard et al., 2004j:62098**
(Lee, Seong-Whan) *see* **Pattern recognition with support vector machines, 2004d:68002**
Lee Ho, L. *see* **Quinino, R. C., 2004k:90035**
Leisch, Friedrich *see* **Dolničar, Sara, (2004j:62012)**
Lemkin, Peter F. (*with* Thornwall, Greogory C.; Evans, Jai) Microarray analysis using the microarray explorer. (English summary) (*see* **2004e:62008**)
Leslie, Christina *see* **Weston, Jason et al., 2004h:68116**
Levitin, Gregory Threshold optimization for weighted voting classifiers. (English summary) **2004b:90032**
Li, Hong Lian (*with* Wang, Chun Hua; Yuan, Baozong) An improved SVM: NN-SVM. (Chinese. English and Chinese summaries)
Li, Ping[4] *see* **Yue, Shi Hong et al.**
Li, Yi[8] (*with* Ryan, Louise M.; Bellamy, Scarlett; Satten, Glen A.) Inference on clustered survival data using imputed frailties. (English summary) **2004h:62180**
Liang, Yan Chun *see* **Wu, Chun Guo et al.**
Liechty, John C. (*with* Liechty, Merrill W.; Müller, Peter[2]) Bayesian correlation estimation. (English summary)
Liechty, Merrill W. *see* **Liechty, John C. et al.**
Lin, Shili (*with* Alexandridis, Roxana) Classification of tissue samples using mixture modeling of microarray gene expression data. (English summary) (*see* **2004d:62008**)
Lin, Yong[2] *see* **Lu, Shou-En et al.**
van der Linde, Angelika (*with* Osius, Gerhard) Discrimination based on an odds ratio parameterization. (English summary) (*see* **2004g:62009**)
Linder, Tamás *see* **Kégl, Balázs et al., (2004j:68005)**
Liu, Jun[7] *see* **Xu, Yang[1] et al., 2004j:68170**
Liu, Xiantao *see* **Kou, Gang et al., 2004j:90101**
Liu, Xin (*with* Shao, Yongzhao) Asymptotics for likelihood ratio tests under loss of identifiability. (English summary) **2004d:62075**
Logvinenko, A. D. Method of quadratic approximation: a new approach to identification of analysers and channels in human vision. (English summary) **2004k:91167a**
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Lopes, Gabriel *see* **Silva, Joaquim et al.**
Lorenzini, Marco *see* **Gini, Giuseppina et al., (2004j:62010)**
Lozano, J. A. *see* **Peña, José M. et al.**
Lu, Baofu *see* **Upadhyaya, B. R., (2004j:62012)**
Lu, Henry Horng-Shing *see* **Wu, Han-Ming**
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Mannila, Heikki *see* **Gyllenberg, Helge G. et al.**
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Marohn, Frank *see* **Falk, Michael et al., 2004e:62002**
Martin, Nadine *see* **Hory, Cyril et al., 2004c:94047**
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Menzies, M. I. *see* **Sismilich, M. et al.**
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Michel, Christian J. *see* **Frey, Gabriel**
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Muthukumaran, P. *see* **Demirli, K. et al.**
Nadarajah, Saralees The Kotz-type distribution with applications. (English summary)
Najarian, Kayvan *see* **Warren, D., 2004i:68189**
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Noble, William Stafford *see* **Weston, Jason et al., 2004h:68116**
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Nørsett, Kristin *see* **Midelfart, Herman et al.**
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Ohno-Machado, Lucila *see* **Zou, Kelly H. et al.**
Ondategui-Parra, Silvia *see* **Zou, Kelly H. et al.**
Orlov, Yu. V. *see* **Dolenko, S. A. et al., (2004j:62010)**
Osius, Gerhard *see* **van der Linde, Angelika, (2004g:62009)**
Ozonoff, Al *see* **Bonetti, Marco et al., (2004k:92003)**
Pagano, Marcello *see* **Bonetti, Marco et al., (2004k:92003)**
Park, Haesun *see* **Howland, Peg et al., 2004h:15015**
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Pollard, Katherine S. (*with* van der Laan, Mark J.) Statistical inference for simultaneous clustering of gene expression data. (English summary) (*see* **2004d:62006**)
Prodanova, K. *see* **Atanasov, Dimitar et al.**
Provost, Foster *see* **Perlich, Claudia et al.**
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Ralaivola, Liva *see* **d'Alché-Buc, Florence, (2004d:00014)**
Ramoni, Marco F. *see* **Sebastiani, Paola et al., (2004e:62008)**
Ratsaby, Joel On learning multicategory classification with sample queries. (English summary) **2004m:68207**
Reeves, Robert W. *see* **Pettitt, A. N. et al., 2004a:62015**
Regan, Meredith M. (*with* Catalano, Paul J.) Combined continuous and discrete outcomes. (*see* **2004g:62010**)
Resnic, Frederic S. *see* **Zou, Kelly H. et al.**
Riani, Marco *see* **Atkinson, Anthony C. et al., 2004m:62001**
Rifkin, Ryan *see* **Mukherjee, Sayan et al., (2004d:62006)**
Rigoll, Gerhard Combination of hidden Markov models and neural networks for hybrid statistical pattern recognition. (English summary) (*see* **2004f:68136**)
Roberts, Gareth O. (*with* Rosenthal, Jeffrey S.) Downweighting tightly knit communities in World Wide Web rankings. (English summary)
Rosenthal, Jeffrey S. *see* **Roberts, Gareth O.**
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Ross, N. Phillip *see* **Filar, Jerzy A. et al.**
Rousset, Patrick *see* **Maillet, Bertrand, (2004m:91008)**
Roy, Anuradha (*with* Khattree, Ravindra) Tests for mean and covariance structures relevant in repeated measures based discriminant analysis. (English summary)
Ruan, Da *see* **Xu, Yang[1] et al., 2004j:68170**
Rubinov, Aleksandr M. *see* **Bagirov, Adil M. et al., 2004e:90080**
Ruján, Pál Combinatorial optimization and high dimensional billiards. (English summary) (*see* **2004e:82001**)
Ryan, Louise M. *see* **Topics in modelling of clustered data, 2004g:62010**; **Li, Yi[8] et al., 2004h:62180**; **Geys, Helena et al., (2004g:62010)** *and* **Corcoran, Chris, (2004g:62010)**
Rybalov, A. Granular entropy and granulation process. (English summary)
Sandvik, Arne K. *see* **Midelfart, Herman et al.**
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Scheffer, Tobias (*with* Wrobel, Stefan) Finding the most interesting patterns in a database quickly by using sequential sampling. (English summary) **2004d:68139**
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Schmitt, Michael RBF neural networks and Descartes' rule of signs. (English summary)
Schmitt, Niels *see* **Forster, Jürgen et al., (2004j:68005)**
Schölkopf, Bernhard *see* **Weston, Jason et al., 2004h:68116**
Sebastiani, Giovanni *see* **de Pasquale, Francesco et al.**
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Shamir, Ron (*with* Tsur, Dekel) Improved algorithms for the random cluster graph model. (English summary)
Shao, Hui He *see* **Yan, Wei Wu et al.**
Shao, Yongzhao *see* **Liu, Xin, 2004d:62075**
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Shi, Shu Ming *see* **Yang, Guang Wen, 2004c:90112**
Shi, Yong[1] *see* **Kou, Gang et al., 2004j:90101**
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Shumway, Robert H. Time-frequency clustering and discriminant analysis. (English summary) **2004e:62193**
Silva, Joaquim (*with* Mexia, João Tiago; Coelho, Carlos A.; Lopes, Gabriel) A statistical approach for multilingual document clustering and topic extraction from clusters. (English summary)
Simon, Hans Ulrich *see* **Forster, Jürgen et al., (2004j:68005)**
Simonoff, Jeffrey S. *see* **Perlich, Claudia et al.**
Sismilich, M. (*with* Menzies, M. I.; Gandar, P. W.; Jameson, P. E.; Clemens, J.) Development of a mathematical method for classifying and comparing tree architecture using parameters from a topological model of a trifurcating botanical tree. (English summary)
Smola, Alexander J. *see* **Fung, Glenn M. et al., 2004m:68204** *and* **Kivinen, Jyrki et al.**

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Snook, Brent *see* **Taylor, Paul J. et al.**, (**2004d:62005**)
van Soest, Arthur *see* **Dustmann, Christian**
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Solka, Jeffrey L. (*with* Wegman, Edward J.; Marchette, David J.) Data mining strategies for the detection of chemical warfare agents. (English summary) (*see* **2004j:62012**)
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Speckman, Paul L. *see* **Larsen, David R.**
Stahl, Doug *see* **Jones, Jason et al.**
Stamey, James D. (*with* Bratcher, Tom L.; Young, Dean M.) Parameter subset selection and multiple comparisons of Poisson rate parameters with misclassification. (English summary)
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Stein, Michael L. *see* **Loh, J. M. et al.**
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Storey, John D. The positive false discovery rate: a Bayesian interpretation and the q-value. (English summary) **2004k:62055**
Stuetzle, Werner *see* **Friedman, Jerome H.**, **2004c:62004**
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Sukhorukova, N. V. *see* **Bagirov, Adil M. et al.**, **2004e:90080**
Sun, Ning[3] *see* **Zhao, Hongyu et al.**, (**2004d:62008**)
Sun, Yan Feng *see* **Wu, Chun Guo et al.**
Sun, Yanqing *see* **Cui, Sufang**, **2004k:62230**
Suvorova, A. V. *see* **Dolenko, S. A. et al.**, (**2004j:62010**)
Swallow, William H. *see* **Tebbs, Joshua M.**
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Terziiski, D. *see* **Atanasov, Dimitar et al.**
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Theiler, James *see* **Perkins, Simon et al.**
Thornwall, Greogory C. *see* **Lemkin, Peter F. et al.**, (**2004e:62008**)
Ting, Kai Ming (*with* Zheng, Zijian) A study of AdaBoost with naive Bayesian classifiers: weakness and improvement. (English summary) **2004j:68157**
Tipping, Michael E. *see* **Weston, Jason et al.**
Tokushige, Shuichi (*with* Inada, Koichi; Yadohisa, Hiroshi) Dissimilarity and related methods for functional data. (English summary)
Toman, Blaza *see* **Katsis, Athanassios**
Torkkola, Kari Feature extraction by non-parametric mutual information maximization. (English summary)
Torra, Vicenç *see* **Domingo-Ferrer, Josep**, (**2004a:62013**)
Tortorella, F. *see* **Foggia, P. et al.**, (**2004j:62010**)
Tsuda, Koji (*with* Akaho, Shotaro; Asai, Kiyoshi[2]) The *em* algorithm for kernel matrix completion with auxiliary data. (English summary)
Tsur, Dekel *see* **Shamir, Ron**
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(Tukey, John Wilder) *see* **Friedman, Jerome H.**, **2004c:62004**
Uehara, Kuniaki *see* **Nakamura, Masayuki et al.**
Upadhyaya, B. R. (*with* Lu, Baofu) Data mining for monitoring plant devices using GMDH and pattern classification. (English summary) (*see* **2004j:62012**)
Valentini, Giorgio *see* **Masulli, Francesco**, (**2004j:62010**)
Vardi, Yehuda *see* **Jörnsten, Rebecka et al.**, (**2004d:62007**)
Veitch, Darryl *see* **Hohn, Nicolas et al.**, **2004h:68149**
Vento, M. *see* **Foggia, P. et al.**, (**2004j:62010**)
(Verri, Alessandro) *see* **Pattern recognition with support vector machines**, **2004d:68002**
Veselovsky, I. S. *see* **Dolenko, S. A. et al.**, (**2004j:62010**)
Viaene, S. (*with* Derrig, R. A.; Dedene, G.) Illustrating the explicative capabilities of Bayesian learning neural networks for auto claim fraud detection. (*see* **2004k:62016**)
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Vincent, P. *see* **Dugas, C. et al.**, (**2004k:62016**)
V″ndev, Dimit″r L. Interactive stepwise discriminant analysis in MATLAB. (English summary)
Wakefield, Jon C. (*with* Zhou, Chuan[2]; Self, Steven G.) Modelling gene expression data over time: curve clustering with informative prior distributions. (English summary) (*see* **2004g:62009**)
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Wang, Shou Yang *see* **Huang, Wei[5] et al.**
Warren, D. (*with* Najarian, Kayvan) Learning theory applied to sigmoid network classification of protein biological function using primary protein structure. (English summary) **2004i:68189**
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Wei, Lai Sheng (*with* Wang, Li Chun) Empirical Bayes test problems for variance components in random effects models. (Chinese. English and Chinese summaries) **2004m:62022**
Wen, Sijin *see* **Do, Kim-Anh et al.**, (**2004e:62008**)
Weston, Jason (*with* Schölkopf, Bernhard; Eskin, Eleazar; Leslie, Christina; Noble, William Stafford) Dealing with large diagonals in kernel matrices. (English summary) **2004h:68116**
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Williamson, Robert C. *see* **Herbrich, Ralf**, **2004f:68127** *and* **Kivinen, Jyrki et al.**
Windeatt, Terry *see* **Ghaderi, Reza**, (**2004j:62010**)
Wise, Morgan *see* **Kou, Gang et al.**, **2004j:90101**
Wodny, Michael *see* **Biebler, Karl-Ernst et al.**
Wrobel, Stefan *see* **Scheffer, Tobias**, **2004d:68139**
Wu, Baolin *see* **Zhao, Hongyu et al.**, (**2004d:62008**)
Wu, Chun Guo (*with* Liang, Yan Chun; Sun, Yan Feng; Zhou, Chun Guang; Lü, Ying Hua) On the equivalence of SVD and PCA. (Chinese. English and Chinese summaries)
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Wu, Ming-Lu *see* **Filar, Jerzy A. et al.**
Wu, Ming Rui *see* **Ye, Shao Zhen et al.**
(Wu, Weili) *see* **Clustering and information retrieval**, **2004j:62005**
Wu, Xiaodong (*with* Chen, Danny Z.; Mason, James J.; Schmid, Steven R.) Pairwise data clustering and applications. (English summary)
Xie, Ling *see* **Song, Chun-lei**
(Xiong, Hui) *see* **Clustering and information retrieval**, **2004j:62005**
Xu, Weixuan *see* **Kou, Gang et al.**, **2004j:90101**
Xu, Yang[1] (*with* Liu, Jun[7]; Ruan, Da) Rule acquisition and adjustment based on set-valued mapping. (English summary) **2004j:68170**
Yadetie, Fekadu *see* **Midelfart, Herman et al.**
Yadohisa, Hiroshi *see* **Tokushige, Shuichi et al.**
Yagiura, Mutsunori *see* **Boros, Endre et al.**, **2004j:68151**
Yan, Wei Wu (*with* Chang, Jun Lin; Shao, Hui He) Modeling method based on support vector machines within the Bayesian evidence framework. (Chinese. English and Chinese summaries)
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Yearwood, John *see* **Bagirov, Adil M. et al.**, **2004e:90080**
Yi, Grace Y. (*with* Cook, Richard J.) Second order estimating equations for clustered longitudinal binary data with missing observations. (English summary) (*see* **2004k:62018**)
Young, Dean M. *see* **Stamey, James D. et al.**
Yu, Bin[1] *see* **Bühlmann, Peter**, **2004b:62110** *and* **2004e:62087**
Yu, Hong-Fwu Optimal classification of highly-reliable products whose degradation paths satisfy Wiener processes. (English summary)
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Yuan, Baozong *see* **Li, Hong Lian et al.**
Yue, Shi Hong (*with* Li, Ping[4]; Hao, Peiyi) SVM classification: its contents and challenges. (English summary)
Zaffalon, Marco (*with* Fagiuoli, Enrico) Tree-based credal networks for classification. (English summary)
Zanger, Daniel Z. Concentration of measure and cluster analysis. (English summary) **2004h:60007**
Zeger, Scott L. *see* **Parmigiani, Giovanni et al.**, (**2004e:62008**)
Zhang, Bo[2] *see* **Ye, Shao Zhen et al.**
Zhang, Cun-Hui *see* **Jörnsten, Rebecka et al.**, (**2004d:62007**)
Zhang, Li-Chun (*with* Chambers, Raymond L.) Small area estimates for cross-classifications. (English summary)
Zhang, Tong[2] A leave-one-out cross validation bound for kernel methods with applications in learning. (English summary) (*see* **2004j:68005**)
Zhang, Wenyang (*with* Steele, Fiona) A semiparametric multilevel survival model. (English summary)
Zhao, Hongyu (*with* Wu, Baolin; Sun, Ning[3]) DNA-protein binding and gene expression patterns. (English summary) (*see* **2004d:62008**)
Zheng, Wen Bo *see* **Ye, Shao Zhen et al.**
Zheng, Zijian *see* **Ting, Kai Ming**, **2004j:68157**
Zhou, Chuan[2] *see* **Wakefield, Jon C. et al.**, (**2004g:62009**)
Zhou, Chun Guang *see* **Wu, Chun Guo et al.**
Zou, Kelly H. (*with* Resnic, Frederic S.; Gogate, Adheet S.; Ondategui-Parra, Silvia; Ohno-Machado, Lucila) Efficient Bayesian sample size calculation for designing a clinical trial with multi-cluster outcome data. (English summary)

Items listed otherwise than by author

Albufeira ★ Integration of methods and hybrid systems.
Classification, clustering, and data analysis ★ Classification, clustering, and data analysis. **2004d:62005**
Clustering and information retrieval ★ Clustering and information retrieval. **2004j:62005**
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62H35 Image analysis

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Singh, Karan P. *see* **Famoye, Felix**
Sinha, Debajyoti *see* **Ibrahim, Joseph G. et al.**, **2004a:62122**
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Song, Xin-Yuan *see* **Lee, Sik-Yum**
Tamer, Elie *see* **Hong, Han**, **2004g:62118**
Tasche, Dirk Unbiasedness in least quantile regression. (English summary) **2004c:62148**
Tesařiková, Eva *see* **Kubáček, Lubomír**, **2004b:62156**
Trivedi, Pravin K. *see* **Cameron, A. Colin**, (**2004j:62006**)
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Verhelst, Norman D. *see* **Bechger, Timo M. et al.**, **2004a:62121**
Vermunt, Jeroen K. An EM algorithm for the estimation of parametric and nonparametric hierarchical nonlinear models. (English summary)
Verstralen, Huub H. F. M. *see* **Bechger, Timo M. et al.**, **2004a:62121**
Wang, Ning[2] *see* **Mei, Chang Lin**, **2004f:62138**
Wang, Qi Hua Estimation of partial linear error-in-response models with validation data. (English summary) **2004b:62158**
— Dimension reduction in partly linear error-in-response models with validation data. (English summary) **2004k:62163**
Weisberg, Sanford *see* **Robinson, Andrew P.**
Wu, Lang Nonlinear mixed-effect models with nonignorably missing covariates. (English and French summaries)
Wu, Yue Hua *see* **Rao, Calyampudi Radhakrishna**, (**2004k:62017**)
Xu, Liang *see* **Lee, Sik-Yum**
Yang, Yuhong Regression with multiple candidate models: selecting or mixing? (English summary) **2004f:62139**
Yee, Thomas W. An implementation for regression quantile estimation. (English summary) (*see* **2004a:62009**)
You, Jin-hong (*with* Chen, Ge Mai) Jackknife estimation for smooth functions of the parametric component in partially linear regression models. (English summary) **2004g:62119**
Zaino, Nicholas *see* **Rao, Poduri S. R. S.**, (**2004k:62018**)
Zhang, Wen Xiu *see* **Ma, Jiang Hong et al.**
Zhu, Li-Xing (*with* Cui, Heng-jian) A semi-parametric regression model with errors in variables. (English summary) **2004k:62164**
— (*with* Ng, Kai Wang) Checking the adequacy of a partial linear model. (English summary) **2004f:62140**
Zwanzig, Silvelyn *see* **Kukush, A. G.**, **2004b:62157**

Items with secondary classifications in 62J02

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Ando, Tomohiro *see* **Konishi, Sadanori et al.**, **2004m:62018**
de Andrés Sánchez, Jorge (*with* Terceño Gómez, Antonio) Estimating a term structure of interest rates for fuzzy financial pricing by using fuzzy regression methods. (English summary) **2004k:91093**
Aneiros-Pérez, Germán *see* **González-Manteiga, Wenceslao**, **2004b:62120**
Antille, Gérard (*with* Dette, Holger; Weinberg, Anna) A note on optimal designs in weighted polynomial regression for the classical efficiency functions. (English summary) **2004c:62155**
Arnoldsson, Göran Optimal designs for beta-binomial logistic regression models. (English summary)
Atkinson, Anthony C. Transforming both sides and optimum experimental design for a nonlinear model arising from second-order chemical kinetics. (English summary)
Baranyi, P. (*with* Várkonyi-Kóczy, A.; Várlaki, P.; Michelberger, P.; Patton, R. J.) Singular value based model approximation. (English summary) (*see* **2004h:00017**)
Baraud, Yannick (*with* Huet, Sylvie; Laurent, Béatrice) Adaptive tests of linear hypotheses by model selection. (English summary) **2004a:62091**
Beirlant, Jan *see* **Matthys, Gunther**, **2004g:60079**
Bellanger, Lise (*with* Tomassone, Richard) Trend in high tropospheric ozone levels. Application to Paris monitoring sites. (English summary)
Cadre, Benoît Hölder properties of the L_1-median. Rate of convergence in the estimation of the conditional L_1-median (mixing case). (English summary) **2004b:62104**
Carmona, René A. ★ Statistical analysis of financial data in S-Plus.
Chaloner, Kathryn *see* **Han, Cong**, **2004d:62260**
Chang, Ching-Hsiang *see* **Chang, Ping-Teng**
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Chaovalitwongse, Wanpracha *see* **Pardalos, Panos M. et al.**
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Cheng, Yi[2] The interval method of fuzzy regression. (Chinese. English and Chinese summaries)
Choi, Seung Hoe (*with* Kim, Hae Kyung; Lee, Young) Nonlinear asymmetric least squares estimators. (English summary) **2004e:62057**
Clarke, G. P. Y. *see* **Haines, Linda M. et al.**
Cramer, J. S. ★ Logit models from economics and other fields. **2004j:62003**
Cui, Heng-jian Estimation in partial linear EV models with replicated observations. (English summary) **2004k:62061**
Dąbrowska, Dorota Averaged non-parametric regression in analysis of transformation models. **2004c:62088**
Datta, Sujay An overview of sequential and multistage methods in regression models. (English summary) (*see* **2004a:62007**)
Densgsoe, Chresten *see* **Guillén, Montserrat et al.**, (**2004k:62016**)
Dette, Holger (*with* Grigoriev, Yu.) A unified asymptotic expansion for distributions of quadratic functionals in nonlinear regression models. (English summary) **2004d:62059**
— (*with* Melas, V. B.; Pepelyshev, A. N.; Strigul, Nikolai) Efficient design of experiments in the Monod model. (English summary) **2004d:62257**
— *see also* **Antille, Gérard et al.**, **2004c:62155**
Efe, Murat *see* **Ozbek, Levent**
Eveson, J. Paige *see* **Laslett, Geoff M. et al.**
Fan, Yanqin (*with* Li, Qi[1]) A kernel-based method for estimating additive partially linear models. (English summary) **2004j:62067**
Fišerová, Eva *see* **Kubáček, Lubomír**, **2004j:62142**
Gamulin, V. A. Solution of the MV-problem of the optimal design of an experiment for polynomial and trigonometric measurement models. (Russian. Russian summary) **2004k:62176**
González-Manteiga, Wenceslao (*with* Aneiros-Pérez, Germán) Testing in partial linear regression models with dependent errors. (English summary) **2004b:62120**
Grigoriev, Yu. *see* **Dette, Holger**, **2004d:62059**
Guillén, Montserrat (*with* Parner, Jan; Densgsoe, Chresten; Perez-Marin, Ana M.) Using logistic regression models to predict and understand why customers leave an insturance company. (*see* **2004k:62016**)
Haines, Linda M. (*with* O'Brien, T. E.; Clarke, G. P. Y.) Kurtosis and curvature measures for nonlinear regression models. (English summary)
Han, Cong (*with* Chaloner, Kathryn) D- and c-optimal designs for exponential regression models used in viral dynamics and other applications. (English summary) **2004d:62260**
Härdle, Wolfgang *see* **Liang, Hua**, **2004k:62108**
Heckman, Nancy E. *see* **Li, Xiaochun**, **2004i:62070**
Hill, Christopher M. (*with* Malone, Linda C.; Trocine, Linda) Data mining and traditional regression. (English summary) (*see* **2004j:62012**)
Huet, Sylvie *see* **Baraud, Yannick et al.**, **2004a:62091**
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Iasemidis, Leonidas D. *see* **Pardalos, Panos M. et al.**
Ibrahim, Joseph G. *see* **Chen, Ming-Hui et al.**, **2004m:62020**
Imoto, Seiya *see* **Konishi, Sadanori et al.**, **2004m:62018**
Jing, Bing-Yi *see* **Wang, Qi Hua**, **2004h:62126**
Jukić, Dragan (*with* Scitovski, R.) Solution of the least-squares problem for logistic function. (English summary) **2004d:65021**
Kauermann, Göran (*with* Opsomer, J. D.) Generalized cross-validation for bandwidth selection of backfitting estimates in generalized additive models. (English summary)
Kim, Daehak (*with* Shim, Jooyong; Oh, Kwangsik) Regression with censored data by least squares support vector machine. (English summary)
Kim, Hae Kyung *see* **Choi, Seung Hoe et al.**, **2004e:62057**
Knottnerus, Paul ★ Sample survey theory. **2004g:62007**
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Koul, Hira L. Asymptotic distributions of some scale estimators in nonlinear models. (English summary) (*see* **2004a:62010**)
Kubáček, Lubomír (*with* Fišerová, Eva) Problems of sensitiveness and linearization in a determination of isobestic points. (English summary) **2004j:62142**
Lai, Tze Leung (*with* Shih, Mei-Chiung) Nonparametric estimation in nonlinear mixed effects models. (English summary) **2004b:62093**
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Laslett, Geoff M. (*with* Eveson, J. Paige; Polacheck, Tom) Estimating the age at capture in capture-recapture studies of fish growth. (English summary)
Laurent, Béatrice *see* **Baraud, Yannick et al.**, **2004a:62091**
Lee, Young *see* **Choi, Seung Hoe et al.**, **2004e:62057**

Leite, José Galvão *see* **Rossi, Robson Marcelo et al.**
Li, Chin-Shang A lack-of-fit test for heteroscedastic regression models via cosine-series smoothers. (English summary) **2004j:62095**
Li, Qi[1] *see* **Fan, Yanqin, 2004j:62067**
Li, Xiaochun (*with* Heckman, Nancy E.) Local linear extrapolation. (English summary) **2004i:62070**
Liang, Hua (*with* Härdle, Wolfgang) Partial linear models with heteroscedastic variances. (English summary) **2004k:62108**
Lin, Jin-Guan (*with* Wei, Bo Cheng) Testing for heteroscedasticity and/or correlation in nonlinear models with correlated errors. (English summary) **2004m:62051**
Liu, Ying An (*with* Wang, Hai Bin; Wei, Bo Cheng) Tests of auto-correlation of the nonlinear regression models with AR(2) process random errors. (Chinese. English and Chinese summaries) **2004e:62160**
Lu, Xuewen (*with* Singh, Radhey S.) One-step estimation for the partially linear proportional hazards model. (English summary) **2004m:62220**
Malone, Linda C. *see* **Hill, Christopher M. et al.**, (**2004j:62012**)
Mammen, Enno (*with* Nielsen, Jens Perch) Generalised structured models. (English summary) **2004j:62074**
Matthys, Gunther (*with* Beirlant, Jan) Estimating the extreme value index and high quantiles with exponential regression models. (English summary) **2004g:60079**
Melas, V. B. *see* **Dette, Holger et al.**, **2004d:62257**
Michelberger, P. *see* **Baranyi, P. et al.**, (**2004h:00017**)
Milan, Luiz Aparecido *see* **Rossi, Robson Marcelo et al.**
Nielsen, Jens Perch *see* **Mammen, Enno, 2004j:62074**
Nittner, Thomas ★ Fehlende Daten in additiven Modellen. (German. English and German summaries) [Missing data in additive models]
O'Brien, T. E. *see* **Haines, Linda M. et al.**
Oh, Kwangsik *see* **Kim, Daehak et al.**
Opsomer, J. D. *see* **Kauermann, Göran**
Ozbek, Levent (*with* Efe, Murat) An adaptive extended Kalman filter with application to compartment models. (English summary)
Pardalos, Panos M. (*with* Yatsenko, V. A.; Sackellares, J. Chris; Shiau, Deng-Shan; Chaovalitwongse, Wanpracha; Iasemidis, Leonidas D.) Analysis of EEG data using optimization, statistics, and dynamical system techniques. (English summary)
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Parner, Jan *see* **Guillén, Montserrat et al.**, (**2004k:62016**)
Pârv, Maria ANREGR—a computer package for regressional analysis. (English summary)
Pastorello, Sergio (*with* Patilea, Valentin; Renault, Eric) Iterative and recursive estimation in structural nonadaptive models. (English summary) **2004h:62067**
Patilea, Valentin *see* **Pastorello, Sergio et al.**, **2004h:62067**
Patton, R. J. *see* **Baranyi, P. et al.**, (**2004h:00017**)
Pepelyshev, A. N. Locally E-optimal designs for exponential regression models. (English summary) **2004g:62136**
— *see also* **Dette, Holger et al.**, **2004d:62257**
Perez-Marin, Ana M. *see* **Guillén, Montserrat et al.**, (**2004k:62016**)
Pogány, Tibor K. Partial error-free polynomial regression. (English summary) **2004j:62084**
Polacheck, Tom *see* **Laslett, Geoff M. et al.**
Renault, Eric *see* **Pastorello, Sergio et al.**, **2004h:62067**
Rodrigues, Josemar *see* **Rossi, Robson Marcelo et al.**
Rossi, Robson Marcelo (*with* Rodrigues, Josemar; Milan, Luiz Aparecido; Leite, José Galvão) Bayesian estimation for the size of an incomplete multinomial population: application using photo-identification data. (Portuguese. English and Portuguese summaries)
Sackellares, J. Chris *see* **Pardalos, Panos M. et al.**
Sato-Ilic, Mika On kernel based fuzzy cluster loadings with the interpretation of the fuzzy clustering result. (English summary) **2004k:62159**
Scitovski, R. *see* **Jukić, Dragan, 2004d:65021**
Shao, Qi-Man *see* **Chen, Ming-Hui et al.**, **2004m:62020**
Shiau, Deng-Shan *see* **Pardalos, Panos M. et al.**
Shih, Joanna H. *see* **Albert, Paul S.**
Shih, Mei-Chiung *see* **Lai, Tze Leung, 2004b:62093** *and* **2004j:62040**
Shim, Jooyong *see* **Kim, Daehak et al.**
Singh, Radhey S. *see* **Lu, Xuewen, 2004m:62220**
Steele, Fiona *see* **Zhang, Wenyang**
Strigul, Nikolai *see* **Dette, Holger et al.**, **2004d:62257**
Tan, Yonghong Time-varying time-delay estimation for nonlinear systems using neural networks. (English summary)
Terceño Gómez, Antonio *see* **de Andrés Sánchez, Jorge, 2004k:91093**
Thompson, Mary E. *see* **Chen, Jiahua et al.**
Tomassone, Richard *see* **Bellanger, Lise**
Trocine, Linda *see* **Hill, Christopher M. et al.**, (**2004j:62012**)
Várkonyi-Kóczy, A. *see* **Baranyi, P. et al.**, (**2004h:00017**)
Várlaki, P. *see* **Baranyi, P. et al.**, (**2004h:00017**)
Wang, Hai Bin *see* **Liu, Ying An et al.**, **2004e:62160**
Wang, Liqun Estimation of nonlinear Berkson-type measurement error models. (English summary) **2004i:62046**
Wang, Qi Hua (*with* Jing, Bing-Yi) Empirical likelihood for partial linear models. (English summary) **2004h:62126**
Wei, Bo Cheng *see* **Liu, Ying An et al.**, **2004e:62160** *and* **Lin, Jin-Guan, 2004m:62051**
Weinberg, Anna *see* **Antille, Gérard et al.**, **2004c:62155**
Wu, Changbao *see* **Chen, Jiahua et al.**
Xu, Bing[1] Estimation of partial linear error-in-variables models for negatively associated dependence data. (English summary) **2004j:62078**
Yatsenko, V. A. *see* **Pardalos, Panos M. et al.**
Žežula, Ivan A remark on the extended growth curve model. (English summary) **2004c:62188**
Zhang, Wenyang (*with* Steele, Fiona) A semiparametric multilevel survival model. (English summary)

62J05 Linear regression

Agulló, J. An exchange algorithm for computing the least quartile difference estimator. (English summary) (*see* **2004a:62010**)
Ahn, Kisoo *see* **Yoo, Jong Young**
Akbar, S. Qaim *see* **Singh, R. Karan et al.**
Akdeniz, Fikri (*with* Kaçiranlar, Selahattin) More on the new biased estimator in linear regression. (English summary) **2004e:62124**
Altunkaynak, B. (*with* Ekni, M.) Detection of influential observation vectors for multivariate linear regression. (English summary) **2004g:62120**
Aparicio, Teresa (*with* Villanua Martin, Inmaculada) Multivariate linear regression model. (*see* **2004k:62008**)
Arellano-Valle, Reinaldo B. (*with* Iglesias, Pilar Loreto; Vidal, Ignacio) Bayesian inference for elliptical linear models: conjugate analysis and model comparison. (English summary) **2004i:62122**
Argaç, Doğan Existence of moments of feasible GLS in the linear regression model. (English summary) **2004m:62153**
Arnold, Bernhard F. (*with* Gerke, Oke) Testing fuzzy linear hypotheses in linear regression models. (English summary) **2004a:62123**
Azam, Mohammad N. (*with* King, Maxwell L.) The use of model selection for detecting unknown changepoints. (English summary)
Bai, Jushan (*with* Perron, Pierre) Critical values for multiple structural change tests. (English summary)
Bakhshiyan, B. Ts. (*with* Voĭskovskiĭ, M. I.) On the possibility of an efficient solution of the robust estimation problem with linear constraints on the estimated vector. (Russian. Russian summary) **2004h:62121**
Bassett, Gilbert W., Jr. (*with* Tam, M.-Y. S.; Knight, Keith) Quantile models and estimators for data analysis. (English summary) (*see* **2004a:62010**)
Bechger, Timo M. (*with* Verstralen, Huub H. F. M.; Verhelst, Norman D.) Equivalent linear logistic test models. (English summary) **2004a:62124**
Belsley, David A. *see* **Foschi, Paolo et al.**
Bura, Efstathia (*with* Cook, R. Dennis) Rank estimation in reduced-rank regression. (English summary) **2004i:62123**
Burdick, Richard K. *see* **Park, Dong Joon**
Burzykowski, Tomasz *see* **Tibaldi, Fabián S. et al.**
Buyse, Marc *see* **Tibaldi, Fabián S. et al.**
Candan Çetin, Meral (*with* Erar, Aydın) Variable selection with Akaike information criteria: a comparative study. (English summary) **2004d:62235**
Castillo, Ángela *see* **Rivero, Carlos et al.**, **2004k:62166**
Causeur, David (*with* Dhorne, Thierry) Linear regression models under conditional independence restrictions. (English summary) **2004g:62121**
Chaganty, N. Rao (*with* Shi, Genming) A note on the estimation of autocorrelation in repeated measurements. (English summary) **2004m:62154**
Chang, Xiao-Wen (*with* Paige, Christopher C.) Numerical linear algebra in the integrity theory of the global positioning system. (English summary) **2004d:62236**
Chen, Ge Mai *see* **You, Jin-hong et al.**, **2004j:62145**
Chen, Min[4] *see* **You, Jin-hong et al.**, **2004j:62145**
Chen, Wei Wei *see* **Zhu, Peng**[2] **et al.**
Chen, Zhen (*with* Dunson, David B.) Random effects selection in linear mixed models. (English and French summaries)
Chukova, Stefanka *see* **Wang, Dong Qian et al.**
Clarke, Bertrand *see* **Wong, Hubert, 2004m:62157**
Conklin, W. Michael *see* **Lipovetsky, Stan**
Cook, R. Dennis *see* **Bura, Efstathia, 2004i:62123**
Coppi, Renato (*with* D'Urso, Pierpaolo) Regression analysis with fuzzy informational paradigm: a least-squares approach using membership function information. (English summary)
Cortiñas Abrahantes, José *see* **Tibaldi, Fabián S. et al.**
Croux, Christophe *see* **Filzmoser, Peter, 2004i:62125** *and* **Dehon, Catherine**, (**2004a:62009**)
Dasgupta, Abhijit[2] *see* **Das Gupta, Somesh, 2004a:62125**
Das Gupta, Somesh (*with* Dasgupta, Abhijit[2]) Ill-conditioned design and unidentifiability. (English summary) **2004a:62125**
Datta, Sujay An overview of sequential and multistage methods in regression models. (English summary) (*see* **2004a:62007**)
Davidson, Russell (*with* MacKinnon, James G.) Artificial regressions. (*see* **2004j:62006**)
Dehon, Catherine (*with* Croux, Christophe) Statistical inference for a robust measure of multiple correlation. (English summary) (*see* **2004a:62009**)
Delicado, Pedro F. (*with* Romo, Juan J.) Random coefficient regressions: parametric goodness-of-fit tests. (English summary) **2004i:62124**
Dhorne, Thierry *see* **Causeur, David, 2004g:62121**
Díaz-García, José A. (*with* González-Farías, Graciela) A note on the Cook's distance. (English summary) **2004j:62138**
Ding, Jie *see* **Zhu, Peng**[2] **et al.**
Ding, Yong Least area method for linear regression. (Chinese. English and Chinese summaries) **2004j:62139**
Drekic, Steve *see* **Thabane, Lehana, 2004j:62143**
Drezner, Zvi *see* **Marcoulides, George A.**
Duan, Qing-tang *see* **Gui, Qing-ming et al.**, **2004g:62123**
Dunson, David B. *see* **Chen, Zhen**
D'Urso, Pierpaolo Linear regression analysis for fuzzy/crisp input and fuzzy/crisp output data. (English summary) **2004b:62159**
— (*with* Giordani, Paolo) Fitting of fuzzy linear regression models with multivariate response. (English summary) **2004d:62237**
— *see also* **Coppi, Renato**
Ekni, M. *see* **Altunkaynak, B., 2004g:62120**
Erar, Aydın *see* **Candan Çetin, Meral, 2004d:62235** *and* **Özyurt, Özlem**
Febrero-Bande, Manuel *see* **García-Soidán, Pilar H. et al.**, **2004j:62140**
Filzmoser, Peter (*with* Croux, Christophe) Dimension reduction of the explanatory variables in multiple linear regression. (English summary) **2004i:62125**
Fišerová, Eva (*with* Kubáček, Lubomír) Sensitivity analysis in singular mixed linear

models with constraints. (English summary) **2004d:62238**
— *see also* **Kubáček, Lubomír**, **2004j:62142**
Fl'ak, Pavel Regression methods of estimation of genetic parameters. (English summary) (*see* **2004c:62006**)
Forsyth, Brian W. C. *see* **Li, Yan et al.**
Foschi, Paolo (*with* Garin, Lucien; Kontoghiorghes, Erricos John) Numerical and computational strategies for solving seemingly unrelated regression models. (English summary) (*see* **2004h:91006**)
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Frazis, Harley (*with* Loewenstein, Mark A.) Estimating linear regressions with mismeasured, possibly endogenous, binary explanatory variables. (English summary) **2004g:62122**
Furno, Marilena Arch tests and quantile regressions. (English summary)
García-Soidán, Pilar H. (*with* González-Manteiga, Wenceslao; Febrero-Bande, Manuel) Local linear regression estimation of the variogram. (English summary) **2004j:62140**
Garin, Lucien *see* **Foschi, Paolo et al.**, (**2004h:91006**)
Garside, Linda M. (*with* Wilkinson, Darren J.) Dynamic lattice-Markov spatio-temporal models for environmental data. (English summary) (*see* **2004g:62009**)
Gerke, Oke *see* **Arnold, Bernhard F.**, **2004a:62123**
Gianola, D. *see* **Rosa, G. J. M. et al.**
Giordani, Paolo *see* **D'Urso, Pierpaolo**, **2004d:62237**
Göktaş, Atilla *see* **Yeniay, Özgür**, **2004d:62243**
Gong, Miao Kun *see* **Ruan, Rong Yao et al.**, **2004k:62167**
González-Farías, Graciela *see* **Díaz-García, José A.**, **2004j:62138**
González-Manteiga, Wenceslao *see* **García-Soidán, Pilar H. et al.**, **2004j:62140**
Gruber, Marvin H. J. The efficiency of shrinkage estimators with respect to Zellner's balanced loss function. (English summary)
Gui, Qing-ming (*with* Duan, Qing-tang; Guo, Jian-feng; Zhou, Qiao-yun) A class of biased estimators based on SVD in linear model. (English summary) **2004g:62123**
Guo, Jian-feng *see* **Gui, Qing-ming et al.**, **2004g:62123**
He, Shu-yuan *see* **Mei, Chang Lin et al.**
Heumann, Christian *see* **Toutenburg, Helge et al.**, **2004d:62242**
Iglesias, Pilar Loreto *see* **Arellano-Valle, Reinaldo B. et al.**, **2004i:62122**
Imon, A. H. M. Rahmatullah Simulation of errors in linear regression: an approach based on fixed percentage area. (English summary)
Ip, Wai Cheung (*with* Yang, Ying[1]; Kwan, P. Y. K.; Kwan, Y. K.) Strong convergence rate of the least median absolute estimator in linear regression models. (English summary) **2004b:62160**
— (*with* Wong, Heung; Wang, Song-Gui; Jia, Zhong-Zhen) A GIC rule for assessing data transformation in regression. (English summary)
Itoh, Masashi *see* **Noda, Kazuo et al.**, **2004h:62124**
Ivanov, G. A. (*with* Krivosheev, I. A.; Smagin, S. I.) A method for estimating the accuracy of a linear regression model. (Russian)
Jia, Xinwei (*with* Rao, M. Bhaskara; Zhang, Haimeng) On weak consistency in linear models with equi-correlated random errors. (English summary) **2004j:62141**
Jia, Zhong-Zhen *see* **Ip, Wai Cheung et al.**
Jiang, Jiming (*with* Rao, J. Sunil) Consistent procedures for mixed linear model selection. (English summary) **2004i:62126**
Jiang, Xue Lei *see* **You, Jin-hong et al.**, **2004j:62145**
Jing, Bing-Yi *see* **Wang, Qi Hua**, **2004h:62126**
Jung, Byoung Cheol *see* **Song, Seuck Heun**
Juutilainen, Ilmari (*with* Röning, Juha) Heteroscedastic linear models for analysing process data. (English summary)
Kaçiranlar, Selahattin *see* **Akdeniz, Fikri**, **2004e:62124**
Kashid, D. N. (*with* Kulkarni, S. R.) Subset selection in multiple linear regression with heavy tailed error distribution. (English summary)
Kibria, B. M. Golam Robust predictive inference for the multivariate linear model. (English summary)
King, Maxwell L. *see* **Azam, Mohammad N.**
Knight, Keith *see* **Bassett, Gilbert W., Jr. et al.**, (**2004a:62010**)
Kontoghiorghes, Erricos John Computational methods for modifying seemingly unrelated regressions models. (English summary)
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Korkhin, A. S. Point and interval forecasts on a regression model estimated with allowance for inequality constraints. (English summary) **2004k:62165**
Krivosheev, I. A. *see* **Ivanov, G. A. et al.**
Kubáček, Lubomír (*with* Kubáčková, Ludmila) Statistical problems of a determination of isobestic points. (English summary) **2004e:62125**
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Kubáčková, Ludmila *see* **Kubáček, Lubomír**, **2004e:62125**
Kukush, A. G. (*with* Maschke, Erich Otto) The efficiency of adjusted least squares in the linear functional relationship. (English summary) **2004m:62155**
Kulkarni, S. R. *see* **Kashid, D. N.**
Kunderová, Pavla Regular linear model with nuisance parameters with constraints of the type II. (English summary) **2004g:62124**
Kwan, P. Y. K. *see* **Ip, Wai Cheung et al.**, **2004b:62160**
Kwan, Y. K. *see* **Ip, Wai Cheung et al.**, **2004b:62160**
Lai, Chin-Diew *see* **Wang, Dong Qian et al.**
LaMotte, Lynn R. *see* **Volaufová, Júlia et al.**
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Lee, Yi-Tzu (*with* Mathew, Thomas[1]) Tolerance intervals and calibration in linear regression. (English summary) (*see* **2004a:62007**)
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Leontitsis, Alexandros (*with* Pange, Jenny) Statistical significance of the LMS regression. (English summary)
Lešanská, Eva Effect of inaccurate variance components in mixed models with constraints. (English summary) **2004g:62125**
Li, Ping Yu (*with* Yan, Zi Zong) Two-step estimation of linear models and measure of BLUE difference. (Chinese. English and Chinese summaries)
Li, Yan (*with* Zelterman, Daniel; Forsyth, Brian W. C.) Analyzing multiply matched cohort studies with two different comparison groups: application to pregnancy rates among HIV+ women. (English and French summaries)
Li, Yan Da *see* **Xu, Jian Hua et al.**
Lipovetsky, Stan (*with* Conklin, W. Michael) Dual- and triple-mode matrix approximation and regression modelling. (English summary)
Loewenstein, Mark A. *see* **Frazis, Harley**, **2004g:62122**
Lund, Robert *see* **Lee, Jaechoul**
Ma, Hong[1] *see* **Zhao, Juan et al.**, **2004g:62127**
MacKinnon, James G. *see* **Davidson, Russell**, (**2004j:62006**)
Malfait, Nicole (*with* Ramsay, James O.) The historical functional linear model. (English and French summaries)
Mantalos, Panagiotis Bootstrapping the Breusch-Godfrey autocorrelation test for a single equation dynamic model: bootstrapping the restricted vs. unrestricted model. (English summary)
Marcoulides, George A. (*with* Drezner, Zvi) Tabu search variable selection with resource constraints. (English summary)
Mariano, Roberto S. Simultaneous equation model estimators: statistical properties and practical implications. (*see* **2004j:62006**)
Marriott, Paul On the geometry of measurement error models. (English summary) **2004h:62122**
Maschke, Erich Otto *see* **Kukush, A. G.**, **2004m:62155**
Mathew, Thomas[1] *see* **Lee, Yi-Tzu**, (**2004a:62007**)
McCartin, Brian J. A geometric characterization of linear regression. (English summary) **2004b:62162**
Mei, Chang Lin (*with* He, Shu-yuan; Wang, Yan Hua[1]) A note on the nonparametric least-squares test for checking a polynomial relationship. (English summary)
Meijer, Erik[1] *see* **Wansbeek, Tom**, (**2004j:62006**)
(Mendoza Ramírez, Manuel) *see* **Arellano-Valle, Reinaldo B. et al.**, **2004i:62122**
Molenberghs, Geert *see* **Tibaldi, Fabián S. et al.**
Mõls, Märt Constraints on random effects and mixed linear model predictions. (English summary) **2004h:62123**
Mõls, Tõnu *see* **Nahtman, Tatyana**
Moral-Arce, Ignacio (*with* Rodríguez-Póo, Juan) Univariate linear regression model. (*see* **2004k:62008**)
Münnich, Ralf On the optimal design in stratified regression estimation. (English summary) **2004a:62126**
Nahtman, Tatyana (*with* Mõls, Tõnu) Characterization of fixed effects as special case of generalized random effects. (English summary)
Noda, Kazuo (*with* Wang, Jinglong; Takahashi, Rinya; Itoh, Masashi) Improvement to AIC as estimator of Kullback-Leibler information for linear model selection. (English summary) **2004h:62124**
Ogutu, J. O. *see* **Piepho, Hans-Peter**
Ohtaki, Megu *see* **Yanagihara, Hirokazu**
Oosthuizen, S. *see* **Steel, S. J. et al.**
Özyurt, Özlem (*with* Erar, Aydın) Multivariate calibration in linear regression and its application. (English summary)
Padovani, C. R. *see* **Rosa, G. J. M. et al.**
Paige, Christopher C. *see* **Chang, Xiao-Wen**, **2004d:62236**
Pange, Jenny *see* **Leontitsis, Alexandros**
Park, Dong Joon (*with* Burdick, Richard K.) Performance of confidence intervals in regression models with unbalanced one-fold nested error structures. (English summary)
Parmar, Max *see* **Tibaldi, Fabián S. et al.**
Perron, Pierre *see* **Bai, Jushan**
Piepho, Hans-Peter (*with* Ogutu, J. O.) Inference for the break point in segmented regression with application to longitudinal data. (English summary)
Ramsay, James O. *see* **Malfait, Nicole**
Rao, J. Sunil *see* **Jiang, Jiming**, **2004i:62126**
Rao, M. Bhaskara *see* **Jia, Xinwei et al.**, **2004j:62141**
Redmann, Stephen M., Jr. *see* **Volaufová, Júlia et al.**
Ren, Jian-Jian Regression M-estimators with non-i.i.d. doubly censored data. (English summary) **2004h:62125**
Renard, Didier *see* **Tibaldi, Fabián S. et al.**
Rivero, Carlos (*with* Castillo, Ángela; Zufiria, Pedro J.; Valdés, Teófilo) Global dynamics of a system governing an algorithm for regression with censored and non-censored data under general errors. (English summary) **2004k:62166**
Rizvi, S. A. H. *see* **Singh, R. Karan et al.**
Rodríguez-Póo, Juan *see* **Moral-Arce, Ignacio**, (**2004k:62008**)
Rolle, Jean-Daniel Two-dimensional graphical representation of regression submodels. (English summary)
Romo, Juan J. *see* **Delicado, Pedro F.**, **2004i:62124**
Röning, Juha *see* **Juutilainen, Ilmari**
Rosa, G. J. M. (*with* Padovani, C. R.; Gianola, D.) Robust linear mixed models with normal/independent distributions and Bayesian MCMC implementation. (English summary)
(Rousseau, Judith) *see* **Arellano-Valle, Reinaldo B. et al.**, **2004i:62122**
Ruan, Rong Yao (*with* Yang, Chang Li; Gong, Miao Kun) Online identifications for systems with unknown delay, orders and coefficients. (Chinese. English and Chinese summaries) **2004k:62167**
Schaffrin, Burkhard (*with* Toutenburg, Helge; Shalabh) On the impact of missing values on the reliability measures in a linear model. (English summary)
— *see also* **Toutenburg, Helge et al.**, **2004d:62242**
Schönfeld, Peter Least squares in general vector spaces revisited. (English summary) **2004m:62156**

Shalabh Consistent estimation of coefficients in measurement error models with replicated observations. (English summary) **2004k:62168**
— *see also* **Toutenburg, Helge**, **2004c:62149** *and* **Schaffrin, Burkhard et al.**
Shi, Genming *see* **Chaganty, N. Rao**, **2004m:62154**
Singh, R. Karan (*with* Akbar, S. Qaim; Rizvi, S. A. H.) Concentration probabilities and generalized mixed regression estimators in regression model. (English summary)
Smagin, S. I. *see* **Ivanov, G. A. et al.**
Solanky, Tumulesh K. S. *see* **Srivastava, Muni S.**, **2004d:62239**
Song, Seuck Heun (*with* Jung, Byoung Cheol) A comparison of estimation in an unbalanced linear mixed model. (Korean. English and Korean summaries)
Sparks, Ross SUR models applied to an environmental situation with missing data and censored values. (English summary)
Srivastava, Muni S. (*with* Solanky, Tumulesh K. S.) Predicting multivariate response in linear regression model. (English summary) **2004d:62239**
Srivastava, Virendra K. (*with* Tiwari, Manoj Kumar) What does R^2 tell us? (English summary)
— (*with* Ullah, Aman; Tiwari, Manoj Kumar) Implications of Stein-rule estimation on the measure of goodness of fit in linear regression models. (English summary) **2004d:62240**
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Steel, S. J. (*with* Oosthuizen, S.; Uys, D. W.) A measure of post variable selection error in multiple linear regression, and its estimation. (English summary)
Stijnen, Theo *see* **Tibaldi, Fabián S. et al.**
Takahashi, Rinya *see* **Noda, Kazuo et al.**, **2004h:62124**
Tam, M.-Y. S. *see* **Bassett, Gilbert W., Jr. et al.**, (**2004a:62010**)
Tarasińska, Joanna Making use of incomplete observations for regression in bivariate normal model. (English summary) **2004a:62127**
Thabane, Lehana (*with* Drekic, Steve) Testing linear hypotheses with a generalized multivariate modified Bessel error variable. (English summary) **2004j:62143**
Tibaldi, Fabián S. (*with* Cortiñas Abrahantes, José; Molenberghs, Geert; Renard, Didier; Burzykowski, Tomasz; Buyse, Marc; Parmar, Max; Stijnen, Theo; Wolfinger, Russ) Simplified hierarchical linear models for the evaluation of surrogate endpoints. (English summary)
Tiwari, Manoj Kumar (*with* Srivastava, Virendra K.) Pitman nearness and concentration probability comparisons of the sample coefficient of determination and its adjusted version in linear regression models. (English summary)
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Toutenburg, Helge (*with* Srivastava, Virendra K.) A revisit to the application of weighted mixed regression estimation in linear models with missing data. (English summary) **2004d:62241**
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— (*with* Shalabh) Estimation of regression models with equi-correlated responses when some observations on the response variable are missing. (English summary) **2004c:62149**
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Ullah, Aman *see* **Srivastava, Virendra K. et al.**, **2004d:62240**
Uys, D. W. *see* **Steel, S. J. et al.**
Valdés, Teófilo *see* **Rivero, Carlos et al.**, **2004k:62166**
Verhelst, Norman D. *see* **Bechger, Timo M. et al.**, **2004a:62124**
Verstralen, Huub H. F. M. *see* **Bechger, Timo M. et al.**, **2004a:62124**
Vidal, Ignacio *see* **Arellano-Valle, Reinaldo B. et al.**, **2004i:62122**
Villanua Martin, Inmaculada *see* **Aparicio, Teresa**, (**2004k:62008**)
Voĭskovskiĭ, M. I. *see* **Bakhshiyan, B. Ts.**, **2004h:62121**
Volaufová, Júlia (*with* Redmann, Stephen M., Jr.; LaMotte, Lynn R.) Is logistic regression the best for binomial response? (English summary)
Wang, Dong Qian (*with* Chukova, Stefanka; Lai, Chin-Diew) On the relationship between regression analysis and mathematical programming. (English summary)
Wang, Jinglong *see* **Noda, Kazuo et al.**, **2004h:62124**
Wang, Qi Hua (*with* Jing, Bing-Yi) Empirical likelihood for partial linear models. (English summary) **2004h:62126**
Wang, Song-Gui *see* **Ip, Wai Cheung et al.**
Wang, Yan Hua[1] *see* **Mei, Chang Lin et al.**
Wansbeek, Tom (*with* Meijer, Erik[1]) Measurement error and latent variables. (*see* **2004j:62006**)
Wilkinson, Darren J. (*with* Yeung, Stephen K. H.) A sparse matrix approach to Bayesian computation in large linear models. (English summary) **2004j:62144**
— *see also* **Garside, Linda M.**, (**2004g:62009**)
Wolfinger, Russ *see* **Tibaldi, Fabián S. et al.**
Wong, George Y. C. *see* **Yu, Qiqing**, **2004g:62126**
Wong, Heung *see* **Ip, Wai Cheung et al.**
Wong, Hubert (*with* Clarke, Bertrand) A characterization of consistency of model weights given partial information in normal linear models. (English summary) **2004m:62157**
Wu, Hsien-Chung Linear regression analysis for fuzzy input and output data using the extension principle. (English summary) **2004e:62126**
Xu, Jian Hua (*with* Zhang, Xue Gong; Li, Yan Da) Regularized kernel forms of minimum squared error methods. (Chinese. English and Chinese summaries)
Yan, Zi Zong *see* **Li, Ping Yu**
Yanagihara, Hirokazu (*with* Ohtaki, Megu) Knot-placement to avoid over fitting in B-spline scedastic smoothing. (English summary)
Yang, Chang Li *see* **Ruan, Rong Yao et al.**, **2004k:62167**
Yang, Ying[1] *see* **Ip, Wai Cheung et al.**, **2004b:62160**
Yeniay, Özgür (*with* Göktaş, Atilla) A comparison of partial least squares regression with other prediction methods. (English summary) **2004d:62243**
Yeung, Stephen K. H. *see* **Wilkinson, Darren J.**, **2004j:62144**
Yoo, Jong Young (*with* Ahn, Kisoo) A confirmation of identified multiple outliers and leverage points in linear model. (Korean. English and Korean summaries)
You, Jin-hong (*with* Chen, Ge Mai; Chen, Min[4]; Jiang, Xue Lei) Uniform convergence rate of estimators of autocovariances in partly linear regression models with correlated errors. (English summary) **2004j:62145**
Yu, Qiqing (*with* Wong, George Y. C.) The semi-parametric MLE in linear regression with right-censored data. (English summary) **2004g:62126**
Yuan, Xiu Jiu (*with* Zhang, Wen Xiu) A tree approach to linear regression models with categorical independent variables. (Chinese. English and Chinese summaries) **2004k:62169**
Zaigraev, A. Yu. Integral stochastic optimal design criteria in linear models. (English summary) **2004d:62244**
Zelterman, Daniel *see* **Li, Yan et al.**
Zhang, Bao Xue Additional remarks on a superiority problem in misspecified restricted singular linear models. (Chinese. English and Chinese summaries) **2004f:62141**
Zhang, Haimeng *see* **Jia, Xinwei et al.**, **2004j:62141**
Zhang, Wen Xiu *see* **Yuan, Xiu Jiu**, **2004k:62169**
Zhang, Xue Gong *see* **Xu, Jian Hua et al.**
Zhao, Juan (*with* Zhu, Yun Min; Ma, Hong[1]) An optimum design of input matrix for a linear model. (Chinese. English and Chinese summaries) **2004g:62127**
Zhou, Qiao-yun *see* **Gui, Qing-ming et al.**, **2004g:62123**
Zhu, Peng[2] (*with* Chen, Wei Wei; Ding, Jie) Lower-bound estimations for relative efficiencies of singular linear models. (Chinese. English and Chinese summaries)
Zhu, Yun Min *see* **Zhao, Juan et al.**, **2004g:62127**
Zoia, Maria Grazia A representation theorem for the restricted least-squares estimator. (Italian. English and Italian summaries) **2004e:62127**
— Restricted least squares revisited. (English summary)
Zufiria, Pedro J. *see* **Rivero, Carlos et al.**, **2004k:62166**

Items with secondary classifications in 62J05

Abberger, Klaus (*with* Heiler, Siegfried) Nonparametric quantile regression with applications to financial time series. (English summary) (*see* **2004d:62007**)
Ahmed, S. E. *see* **Khan, B. U.**, **2004h:62047**
Aĭvazyan, S. A. (*with* Borisova, S. V.; Lakalin, E. A.; Makarov, Valeriĭ Leonidovich) Econometric modelling of the Russian economy. (English summary)
Albert, Paul S. (*with* Shih, Joanna H.) Modeling tumor growth with random onset. (English and French summaries)
Allal, J. (*with* Kaaouachi, A.) Adaptive R-estimation in a linear regression model with ARMA errors. (English summary) **2004d:62078**
Al-Nasser, Amjad. D. Customer satisfaction measurement models: generalised maximum entropy approach. (English summary)
Alpargu, Gülhan (*with* Dutilleul, Pierre) Efficiency and validity analyses of two-stage estimation procedures and derived testing procedures in quantitative linear models with AR(1) errors. (English summary)
Anderson, T. W. Specification and misspecification in reduced rank regression. (English summary) **2004b:62141**
Ang, James S. *see* **Zhang, Shaojun et al.**, **2004j:62215**
Antoch, Jaromír (*with* Ekblom, H.) Selected algorithms for robust M- and L-regression estimators. (English summary) (*see* **2004a:62010**)
Atkinson, Anthony C. (*with* Riani, Marco; Cerioli, Andrea) ★ Exploring multivariate data with the forward search. **2004m:62001**
Bai, Zhi Dong (*with* Chen, Michael; Li, Gang[5]) Rank estimation for longitudinal data with subject attrition due to response selection. (English summary) **2004i:62086**
Barnett, Vic (*with* Bown, Marion) Setting environmental standards: a statistical approach. (English summary) (*see* **2004m:62011**)
Bechger, Timo M. (*with* Verhelst, Norman D.; Verstralen, Huub H. F. M.) Identifiability of nonlinear logistic test models. (English summary) **2004a:62121**
Bekker, Paul (*with* Wansbeek, Tom) Identification in parametric models. (*see* **2004j:62006**)
Bhar, Lalmohan (*with* Gupta, Vinod Kumar) A useful statistic for studying outliers in experimental designs. (English summary) **2004d:62264**
Bischoff, Wolfgang The structure of residual partial sums limit processes of linear regression models. (English summary) **2004m:60066**
Bolfarine, Heleno (*with* Galea Rojas, Manuel) On structural comparative calibration with auxiliary information. (English summary) **2004d:62081**
Bondarēv, Boris V. (*with* Selyakov, K. B.) On an estimator for an unknown parameter in a first-order autoregressive procedure ($|\theta| > 1$). (Ukrainian. Ukrainian summary) **2004e:62055**
Borisova, S. V. *see* **Aĭvazyan, S. A. et al.**
Bown, Marion *see* **Barnett, Vic**, (**2004m:62011**)
Boyer, Brian H. (*with* McDonald, James B.; Newey, Whitney K.) A comparison of partially adaptive and reweighted least squares estimation. (English summary) **2004e:62065**
Branco, Márcia D. (*with* Dey, Dipak K.) Regression model under skew elliptical error distribution. (English summary) **2004k:62043**
— *see also* **Sahu, Sujit K. et al.**, **2004h:62027**
Braun, John *see* **Maindonald, John H.**
Breaz, Daniel *see* **Breaz, Nicoleta**, (**2004g:00020**)
Breaz, Nicoleta (*with* Breaz, Daniel) Statistical tests concerning the equality of coefficients in the linear model. (Romanian. English summary) (*see* **2004g:00020**)
Cai, Xin Min (*with* Huang, Yang Xin) Asymptotic analysis of an estimate for regression coefficients. (Chinese. English and Chinese summaries) **2004c:62056**
Carlin, John B. *see* **Gelman, Andrew et al.**, **2004j:62001**
Carmona, René A. ★ Statistical analysis of financial data in S-Plus.
Castro, Eduardo A. *see* **Fernández, Francisco M. et al.**
Cénac, Peggy Almost sure properties of weighted vectorial martingales transforms with applications to prediction for linear regression models. (English summary) **2004m:62162**
Cerioli, Andrea *see* **Atkinson, Anthony C. et al.**, **2004m:62001**
Chang, Yuan-chin Ivan (*with* Ying, Zhiliang) Sequential estimation in variable length computerized adaptive testing. (English summary) **2004k:62183**
Cheang, Wai-Kwong *see* **Reinsel, Gregory C.**, **2004c:62129**
Chen, Ge Mai *see* **You, Jin-hong**, **2004g:62119**
Chen, Michael *see* **Bai, Zhi Dong et al.**, **2004i:62086**
Chen, Tuhao J. (*with* Gupta, Arjun K.; Troskie, Cas G.) The distribution of stock returns when the market is up. (English summary) **2004e:62041**
Chen, Xiru *see* **Zhang, Sanguo**, **2004j:62048**
Chiang, Chin Long ★ Statistical methods of analysis.

Cho, Sinsup *see* **Son, Young Sook et al.**
Cicconetti, Greg *see* **Mukhopadhyay, Nitis et al.**
Clark, Virginia A. *see* **Mickey, Ruth M. et al., 2004k:62004**
Cohen, Guy (*with* Francos, Joseph M.) Spectral representation and asymptotic properties of certain deterministic fields with innovation components. (English summary) **2004j:62199**
Croux, Christophe (*with* Van Aelst, Stefan; Dehon, Catherine) Bounded influence regression using high breakdown scatter matrices. (English summary) **2004g:62043**
Cui, Heng-jian (*with* He, Xuming; Ng, Kai Wang) M-estimation for linear models with spatially-correlated errors. (English summary) **2004m:62068**
Dallal, Gerard E. *see* **Wachsmuth, Amanda et al., 2004f:62017**
Datcheva, M. *see* **Stoimenova, Eugenia et al.**
Dehon, Catherine *see* **Croux, Christophe et al., 2004g:62043**
(Denne, Jonathan) *see* **Julious, Steven**
Densgsoe, Chresten *see* **Guillén, Montserrat et al., (2004k:62016)**
Dey, Dipak K. *see* **Sahu, Sujit K. et al., 2004h:62027** *and* **Branco, Márcia D., 2004k:62043**
Dhaene, Geert (*with* Schokkaert, Erik; Van de Voorde, Carine) Best affine unbiased response decomposition. (English summary) **2004f:62126**
Dillane, Dominic *see* **Haslett, John, 2004k:62064**
Draper, Norman R. (*with* Pukelsheim, Friedrich) Canonical reduction of second-order fitted models subject to linear restrictions. (English summary) **2004g:62064**
Dube, Madhulika (*with* Manocha, Veena) Simultaneous prediction in restricted regression models. (English summary) **2004e:62172**
Duchowicz, Pablo R. *see* **Fernández, Francisco M. et al.**
Dunn, Olive Jean *see* **Mickey, Ruth M. et al., 2004k:62004**
Dutilleul, Pierre *see* **Alpargu, Gülhan**
Ekblom, H. *see* **Antoch, Jaromír, (2004a:62010)**
Elisseeff, André *see* **Weston, Jason et al.**
Ellis, Steven P. Fitting a line to three or four points on a plane. (English summary) **2004d:62232**
Enguix-González, A. *see* **Muñoz-Pichardo, J. M. et al.**
Erar, Aydın *see* **Yardımcı, Atilla, 2004d:62021**
Eveson, J. Paige *see* **Laslett, Geoff M. et al.**
Falk, Michael (*with* Marohn, Frank; Tewes, Bernward) ★ Foundations of statistical analyses and applications with SAS. **2004e:62002**
Fang, Ji Qian *see* **Jin, Hua et al., 2004h:62045** *and* **He, Chun, 2004k:62146**
Fang, Zhide Extrapolation designs with constraints. (English and French summaries) **2004k:62175**
Farebrother, Richard William Whose hare and whose tortoise. (English summary) (*see* **2004d:62007**)
Fercheluc, Octav On the bootstrapping heteroscedastic regression models. (English summary) **2004j:62063**
Fernández, Francisco M. (*with* Duchowicz, Pablo R.; Castro, Eduardo A.) About orthogonal descriptors in QSPR/QSAR theories. (English summary)
Fetterman, Bethel A. *see* **Muller, Keith E., 2004g:62001**
Foschi, Paolo (*with* Kontoghiorghes, Erricos John) Estimating seemingly unrelated regression models with vector autoregressive disturbances. (English summary) **2004g:62159**
Francos, Joseph M. *see* **Cohen, Guy, 2004j:62199**
Fu, Bo (*with* Fung, Wing-Kam; He, Xuming) Robust analysis of longitudinal data. (English summary)
Fung, Wing-Kam (*with* Zong, Xu Ping; Wei, Bo Cheng) On estimation and influence diagnostics in linear mixed measurement error models. (English summary) **2004i:62136**
— *see also* **Fu, Bo et al.**
Gaffke, Norbert (*with* Heiligers, Berthold; Offinger, Robert) On the asymptotic null-distribution of the Wald statistic at singular parameter points. (English summary) **2004a:62055**
Galea Rojas, Manuel *see* **Bolfarine, Heleno, 2004d:62081**
Gamulin, V. A. Solution of the MV-problem of the optimal design of an experiment for polynomial and trigonometric measurement models. (Russian. Russian summary) **2004k:62176**
Gao, Sujuan Combining binomial data using the logistic normal model. (English summary)
Gargallo Valero, Pilar *see* **Salvador Figueras, Manuel**
Gastwirth, Joseph L. *see* **Zheng, Gang[1], 2004f:62060**
Gelman, Andrew (*with* Carlin, John B.; Stern, Hal S.; Rubin, Donald B.) ★ Bayesian data analysis. **2004j:62001**
Gerencsér, László (*with* Molnár-Sáska, Gábor) Estimation and strong approximation of hidden Markov models. (English summary) (*see* **2004g:00018**)
Ghosh, Malay (*with* Heo, Jungeun) Noninformative priors, credible sets and Bayesian hypothesis testing for the intraclass model. (English summary) **2004b:62080**
— (*with* Yin, Ming; Kim, Yeong-Hwa) Objective Bayesian inference for ratios of regression coefficients in linear models. (English summary) **2004k:62082**
Girón González-Torre, Francisco Javier *see* **Moreno Bas, Elias et al., 2004k:62083**
Groen, Jeffrey A. The effect of college location on migration of college-educated labor. (English summary)
Groß, Jürgen ★ Linear regression. **2004m:62006**
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Guillén, Montserrat (*with* Parner, Jan; Densgsoe, Chresten; Perez-Marin, Ana M.) Using logistic regression models to predict and understand why customers leave an insturance company. (*see* **2004k:62016**)
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He, Xuming *see* **Cui, Heng-jian et al., 2004m:62068** *and* **Fu, Bo et al.**
Heckman, Nancy E. *see* **Li, Xiaochun, 2004i:62070**
Heiler, Siegfried *see* **Abberger, Klaus, (2004d:62007)**
Heiligers, Berthold *see* **Gaffke, Norbert et al., 2004a:62055**
Held, Leonhard Simultaneous posterior probability statements from Monte Carlo output. (English summary)
Hennig, Christian Clusters, outliers, and regression: fixed point clusters. (English summary) **2004f:62135**
Heo, Jungeun *see* **Ghosh, Malay, 2004b:62080**
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Huang, Yang Xin *see* **Cai, Xin Min, 2004c:62056**
Hušková, Marie (*with* Picek, Jan) M-tests for detection of structural changes in regression. (English summary) **2004f:62112**
— (*with* Steinebach, J. G.) Asymptotic tests for gradual changes. (English summary) **2004b:62049**
Hwang, Changha *see* **Hong, Dug Hun**
Ikegame, Hajime *see* **Toyoura, Yoshihiro et al.**
Ip, Wai Cheung *see* **Wang, Song-Gui, 2004d:62206**
Jamshidian, Mortaza On algorithms for restricted maximum likelihood estimation. (English summary)
— *see also* **Liu, Wei[4] et al.**
Jarušková, Daniela Asymptotic distribution of a statistic testing a change in simple linear regression with equidistant design. (English summary) **2004f:62057**
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Jin, Hua (*with* He, Chun; Fang, Ji Qian) A structural regression model under exchangeability conditions. (Chinese. English and Chinese summaries) **2004h:62045**
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Kalaba, R. E. *see* **Johnson, Joseph, 2004e:49043**
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Khan, Shahjahan A note on an optimal tolerance region for the class of multivariate elliptically contoured location-scale model. (English summary) **2004a:62072**
Kim, Hyunjoong (*with* Loh, Wei-Yin) Classification trees with bivariate linear discriminant node models. (English summary)
Kim, Seong W. *see* **Son, Young Sook et al.**
Kim, Yeong-Hwa *see* **Ghosh, Malay et al., 2004k:62082**
King, Maxwell L. *see* **Laskar, Mizan R., (2004j:62008)**
de Klerk, Etienne *see* **den Hertog, Dick et al., 2004j:90028**
Knottnerus, Paul ★ Sample survey theory. **2004g:62007**
Ko, Yong C. *see* **Mukhopadhyay, Nitis et al.**
Kontoghiorghes, Erricos John *see* **Foschi, Paolo, 2004g:62159**
Kou, S. C. Is C_p an empirical Bayes method for smoothing parameter choice? (English summary) **2004m:62023**
Kubáček, Lubomír (*with* Tesaříková, Eva) Weakly nonlinear constraints in regression models. (English summary) **2004b:62156**
— Linear versus quadratic estimators in linearized models. (English summary) **2004k:62162**
Kubokawa, Tatsuya (*with* Srivastava, Muni S.) Prediction in multivariate mixed linear models. (English summary) **2004k:62218**
Kukush, A. G. (*with* Van Huffel, Sabine) Consistency of elementwise-weighted total least squares estimator in a multivariate errors-in-variables model $AX = B$. (English summary) **2004m:62129**
(Lahiri, P.) *see* **Model selection, 2004k:62017**
Lakalin, E. A. *see* **Aivazyan, S. A. et al.**
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Leeb, Hannes (*with* Pötscher, Benedikt M.) The finite-sample distribution of post-model-selection estimators and uniform versus nonuniform approximations. (English summary) **2004a:62045**
Leung, Ping Kei Bartholomew *see* **You, Jin-hong et al., 2004b:62116**
Leybourne, Stephen *see* **Harris, David[3] et al., 2004b:62195**
Li, Gang[5] *see* **Bai, Zhi Dong et al., 2004i:62086**
Li, Xiaochun (*with* Heckman, Nancy E.) Local linear extrapolation. (English summary) **2004i:62070**
Li, Yan[6] *see* **Shi, Lei[2] et al.**
Liao, J. G. (*with* McGee, Dan) Adjusted coefficients of determination for logistic regression. (English summary)
Liao, Jason J. Z. A functional linear model for comparing two pharmacokinetics profiles. (English summary) **2004f:62194**
Liu, Wei[4] (*with* Jamshidian, Mortaza; Zhang, Ying[6]) Multiple comparison of several linear regression models. (English summary)

Loh, Wei-Yin *see* **Kim, Hyunjoong**

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Makarov, Valeriĭ Leonidovich *see* **Aĭvazyan, S. A. et al.**

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McCabe, Brendan *see* **Harris, David[3] et al.**, **2004b:62195**

McDonald, James B. *see* **Boyer, Brian H. et al.**, **2004e:62065**

McGee, Dan *see* **Liao, J. G.**

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Molnár-Sáska, Gábor *see* **Gerencsér, László**, (**2004g:00018**)

Monney, Paul-André ★ A mathematical theory of arguments for statistical evidence. **2004c:60004**

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Newey, Whitney K. *see* **Boyer, Brian H. et al.**, **2004e:62065**

Ng, Kai Wang *see* **Cui, Heng-jian et al.**, **2004m:62068**

Niu, Xu-Feng *see* **Zhang, Shaojun et al.**, **2004j:62215**

Nyquist, Hans Orthogonal L_1-norm estimation. (English summary) (*see* **2004d:62007**)

Offinger, Robert *see* **Gaffke, Norbert et al.**, **2004a:62055**

Paige, Robert L. *see* **Mansouri, Hossein**, (**2004k:62018**)

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Pang, Wan-Kai *see* **You, Jin-hong et al.**, **2004b:62116**

Parner, Jan *see* **Guillén, Montserrat et al.**, (**2004k:62016**)

Pascual-Acosta, A. *see* **Muñoz-Pichardo, J. M. et al.**

Perez-Marin, Ana M. *see* **Guillén, Montserrat et al.**, (**2004k:62016**)

Picek, Jan *see* **Hušková, Marie**, **2004f:62112**

Piegorsch, Walter W. *see* **Pan, Wei et al.**

Polacheck, Tom *see* **Laslett, Geoff M. et al.**

Portugal, Pedro *see* **Machado, José A. F.**, (**2004d:62007**)

Pötscher, Benedikt M. *see* **Leeb, Hannes**, **2004a:62045**

Pukelsheim, Friedrich *see* **Draper, Norman R.**, **2004g:62064**

Rafajłowicz, Ewaryst (*with* Schwabe, Rainer) Experimental design for (semi-)local regression. (English summary) **2004g:62137**

Rasekh, A. R. Detecting outliers in multivariate functional measurement errors models. (English summary)

Rastogi, N. *see* **Singh, R. Karan**, **2004g:62050**

Reinsel, Gregory C. (*with* Cheang, Wai-Kwong) Approximate ML and REML estimation for regression models with spatial or time series AR(1) noise. (English summary) **2004c:62129**

Riani, Marco *see* **Atkinson, Anthony C. et al.**, **2004m:62001**

(Rodríguez-Póo, Juan) *see* **Computer-aided introduction to econometrics**, **2004k:62008**

Roos, Cornelis *see* **den Hertog, Dick et al.**, **2004j:90028**

Roy, Anindya (*with* Seidman, Thomas I.) On consistency of estimators in simple linear regression models. (English summary) **2004h:62051**

Rubin, Donald B. *see* **Gelman, Andrew et al.**, **2004j:62001**

Sabatier, Robert *see* **Vivien, Myrtille**

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Salvador Figueras, Manuel (*with* Gargallo Valero, Pilar) Automatic selective intervention in dynamic linear models. (English summary)

Sato, Seiichiro *see* **Toyoura, Yoshihiro et al.**

Schanz, T. *see* **Stoimenova, Eugenia et al.**

Schokkaert, Erik *see* **Dhaene, Geert et al.**, **2004f:62126**

Schölkopf, Bernhard *see* **Weston, Jason et al.**

Schulz, Rainer (*with* Sofyan, Hizir; Werwatz, Axel; Witzel, Rodrigo) Online prediction of Berlin single-family house prices. (English summary)

Schwabe, Rainer *see* **Rafajłowicz, Ewaryst**, **2004g:62137**

Seidman, Thomas I. *see* **Roy, Anindya**, **2004h:62051**

Selyakov, K. B. *see* **Bondarēv, Boris V.**, **2004e:62055**

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Shi, Peilin (*with* Ye, Jane J.; Zhou, Julie) Minimax robust designs for misspecified regression models. (English and French summaries) **2004m:62080**

Shih, Joanna H. *see* **Albert, Paul S.**

Singh, R. Karan (*with* Rastogi, N.) Pitman nearness for a generalized Stein-rule estimators of regression coefficients. (English summary) **2004g:62050**

— *see also* **Verma, Sanjay**, **2004b:62071**

Singh, Radhey S. *see* **Lu, Xuewen**, **2004m:62220**

Sofyan, Hizir *see* **Schulz, Rainer et al.**

Son, Mun S. *see* **Mukhopadhyay, Nitis et al.**

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Song, Seuck Heun *see* **Jeske, Roland**, **2004d:62304**

Srivastava, Muni S. *see* **Kubokawa, Tatsuya**, **2004k:62218**

Steinebach, J. G. *see* **Hušková, Marie**, **2004b:62049**

Stern, Hal S. *see* **Gelman, Andrew et al.**, **2004j:62001**

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Sun, Xiaoqian *see* **You, Jin-hong et al.**, **2004b:62116**

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Tamer, Elie *see* **Hong, Han**, **2004e:62036**

Tesařiková, Eva *see* **Kubáček, Lubomír**, **2004b:62156**

Tewes, Bernward *see* **Falk, Michael et al.**, **2004e:62002**

Tian, Xin (*with* Vardi, Yehuda; Zhang, Cun-Hui) L_1-depth, depth relative to a model, and robust regression. (English summary) (*see* **2004d:62007**)

Tipping, Michael E. *see* **Weston, Jason et al.**

Tohyama, Masahiro *see* **Toyoura, Yoshihiro et al.**

Torres Ruiz, F. *see* **Moreno Bas, Elías et al.**, **2004k:62083**

Toyoura, Yoshihiro (*with* Watada, Junzo; Yabuuchi, Yoshiyuki; Ikegame, Hajime; Sato, Seiichiro; Watanabe, Katsuhiko; Tohyama, Masahiro) Fuzzy regression analysis of software bug structures. (English summary)

Troskie, Cas G. *see* **Chen, Tuhao J. et al.**, **2004e:62041**

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— *see also* **Croux, Christophe et al.**, **2004g:62043**

Van de Voorde, Carine *see* **Dhaene, Geert et al.**, **2004f:62126**

Van Huffel, Sabine *see* **Kukush, A. G.**, **2004m:62129**

Vardi, Yehuda *see* **Tian, Xin et al.**, (**2004d:62007**)

Verhelst, Norman D. *see* **Bechger, Timo M. et al.**, **2004a:62121**

Verma, Sanjay (*with* Singh, R. Karan) A modified generalized mixed regression estimator when disturbances are nonnormal. (English summary) **2004b:62071**

Verstralen, Huub H. F. M. *see* **Bechger, Timo M. et al.**, **2004a:62121**

Vivien, Myrtille (*with* Sabatier, Robert) A generalization of STATIS-ACT strategy: DO-ACT for two multiblocks tables. (English summary)

Wachsmuth, Amanda (*with* Wilkinson, Leland; Dallal, Gerard E.) Galton's bend: a previously undiscovered nonlinearity in Galton's family stature regression data. (English summary) **2004f:62017**

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Wansbeek, Tom *see* **Bekker, Paul**, (**2004j:62006**)

Watada, Junzo *see* **Toyoura, Yoshihiro et al.**

Watanabe, Katsuhiko *see* **Toyoura, Yoshihiro et al.**

Wei, Bo Cheng *see* **Fung, Wing-Kam et al.**, **2004i:62136**

Werwatz, Axel *see* **Schulz, Rainer et al.**

West, R. Webster *see* **Pan, Wei et al.**

Weston, Jason (*with* Elisseeff, André; Schölkopf, Bernhard; Tipping, Michael E.) Use of the zero-norm with linear models and kernel methods. (English summary)

Wilkinson, Leland *see* **Wachsmuth, Amanda et al.**, **2004f:62017**

Willems, Gert *see* **Van Aelst, Stefan**, (**2004d:62007**)

Witzel, Rodrigo *see* **Schulz, Rainer et al.**

Wong, George Y. C. *see* **Yu, Qiqing**, **2004b:62101**

Wu, Qi Guang *see* **Yang, Guo-Qing**, **2004k:62073**

Yabuuchi, Yoshiyuki *see* **Toyoura, Yoshihiro et al.**

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Yardımcı, Atilla (*with* Erar, Aydın) Bayesian variable selection in linear regression and a comparison. (English summary) **2004d:62021**

Ye, Jane J. *see* **Shi, Peilin et al.**, **2004m:62080**

Yin, Ming *see* **Ghosh, Malay et al.**, **2004k:62082**

Ying, Zhiliang *see* **Chang, Yuan-chin Ivan**, **2004k:62183**

Yohai, Víctor J. *see* **Svarc, Marcela et al.**, **2004d:62122**

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Zamar, Ruben H. *see* **Svarc, Marcela et al.**, **2004d:62122**

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Zhang, Cun-Hui *see* **Tian, Xin et al.**, (**2004d:62007**)

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Zhang, Shaojun (*with* Niu, Xu-Feng; Ang, James S.) Building tracking portfolios based on a generalized information criterion. (English summary) **2004j:62215**

Zhang, Ying[6] *see* **Liu, Wei[4] et al.**
Zheng, Gang[1] (*with* Gastwirth, Joseph L.) Do tails of symmetric distributions contain more Fisher information about the scale parameter? (English summary) **2004f:62060**
Zhou, Julie *see* **Shi, Peilin et al., 2004m:62080**
Zmyślony, Roman (*with* Zontek, Stefan) Robust M-estimator of parameters in variance components model. (English summary) **2004f:62083**
Zong, Xu Ping *see* **Fung, Wing-Kam et al., 2004i:62136**
Zontek, Stefan *see* **Zmyślony, Roman, 2004f:62083**
(Zucker, David M.) *see* **Julious, Steven**

Items listed otherwise than by author

Computer-aided introduction to econometrics ★ Computer-aided introduction to econometrics. **2004k:62008**
Lecture Notes in Statistics *see* **Groß, Jürgen, 2004m:62006**
Model selection ★ Model selection. **2004k:62017**

62J07 Ridge regression; shrinkage estimators

Ahn, Chulhwan *see* **Hong, Dug Hun et al.**
Baklizi, Ayman S. (*with* El-Masri, Abed El-Qader) Shrinkage estimation of $P(X < Y)$ in the exponential case with common location parameter. (English summary)
Chaturvedi, Anoop *see* **Wan, Alan T. K. et al., 2004c:62150**
Costa, Àlex (*with* Satorra, Albert; Ventura, Eva) An empirical evaluation of small area estimators. (English and Catalan summaries)
Draper, Norman R. *see* **Gilmour, Steven G.**
El-Masri, Abed El-Qader *see* **Baklizi, Ayman S.**
Fan, Shu-Kai S. A different view of ridge analysis from numerical optimization. (English summary)
— Implementation of ridge analysis on quadratic response surfaces. (English summary)
Gilmour, Steven G. (*with* Draper, Norman R.) Confidence regions around the ridge of optimal response on fitted second-order response surfaces. (English summary)
Groß, Jürgen Restricted ridge estimation. (English summary) **2004i:62127**
Hong, Dug Hun (*with* Hwang, Changha; Ahn, Chulhwan) Ridge estimation for regression models with crisp inputs and Gaussian fuzzy output. (English summary)
Huang, Ke Ming[1] *see* **Liu, Wen Li, 2004d:62245**
Huang, Su-Yun *see* **Lu, Henry Horng-Shing et al., 2004g:62128**
Hwang, Changha *see* **Hong, Dug Hun et al.**
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Kaçiranlar, Selahattin Liu estimator in the general linear regression model. (English summary) **2004k:62170**
Kibria, B. M. Golam (*with* Saleh, A. K. Md. Ehsanes) Preliminary test ridge regression estimators with student's t errors and conflicting test-statistics. (English summary) **2004m:62158**
Lin, Fang-Jiun *see* **Lu, Henry Horng-Shing et al., 2004g:62128**
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Liu, Wen Li (*with* Huang, Ke Ming[1]) The superiority of a kind of nonlinear ridge estimator. (Chinese. English and Chinese summaries) **2004d:62245**
Lu, Henry Horng-Shing (*with* Huang, Su-Yun; Lin, Fang-Jiun) Generalized cross-validation for wavelet shrinkage in nonparametric mixed effects models. (English summary) **2004g:62128**
Saleh, A. K. Md. Ehsanes *see* **Kibria, B. M. Golam, 2004m:62158**
Satorra, Albert *see* **Costa, Àlex et al.**
Trendafilov, Nickolay T. *see* **Jolliffe, Ian T. et al.**
Uddin, Mudassir *see* **Jolliffe, Ian T. et al.**
Ventura, Eva *see* **Costa, Àlex et al.**
Wan, Alan T. K. (*with* Chaturvedi, Anoop; Zou, Guohua) Unbiased estimation of the MSE matrices of improved estimators in linear regression. (English summary) **2004c:62150**
Zou, Guohua *see* **Wan, Alan T. K. et al., 2004c:62150**

Items with secondary classifications in 62J07

Akdeniz, Fikri (*with* Erol, Hamza) Mean squared error matrix comparisons of some biased estimators in linear regression. (English summary) **2004j:62033**
Angelini, Claudia (*with* De Canditiis, Daniela; Leblanc, Frédérique) Wavelet regression estimation in nonparametric mixed effect models. (English summary) **2004d:62160**
Conklin, W. Michael *see* **Lipovetsky, Stan**
De Canditiis, Daniela *see* **Angelini, Claudia et al., 2004d:62160**
Erol, Hamza *see* **Akdeniz, Fikri, 2004j:62033**
Ghosh, Debashis Penalized discriminant methods for the classification of tumors from gene expression data. (English and French summaries)
Ishwaran, Hemant (*with* Rao, J. Sunil) Detecting differentially expressed genes in microarrays using Bayesian model selection. (English summary) **2004e:62128**
Kibria, B. M. Golam (*with* Saleh, A. K. Md. Ehsanes) Effect of W, LR, and LM tests on the performance of preliminary test ridge regression estimators. (English summary) **2004m:62059**
Leblanc, Frédérique *see* **Angelini, Claudia et al., 2004d:62160**
Ledoit, Olivier (*with* Wolf, Michael[3]) A well-conditioned estimator for large-dimensional covariance matrices. (English summary) **2004m:62130**
Lipovetsky, Stan (*with* Conklin, W. Michael) Dual- and triple-mode matrix approximation and regression modelling. (English summary)
Miller, Alan ★ Subset selection in regression.
Mõls, Märt Constraints on random effects and mixed linear model predictions. (English summary) **2004h:62123**
Namba, Akio PMSE dominance of the positive-part shrinkage estimator in a regression model when relevant regressors are omitted. (English summary) **2004f:62070**
Rao, J. Sunil *see* **Ishwaran, Hemant, 2004e:62128**
Saleh, A. K. Md. Ehsanes *see* **Kibria, B. M. Golam, 2004m:62059**
Sato, Yoshiharu *see* **Tokairin, Tomoya**
Tokairin, Tomoya (*with* Sato, Yoshiharu) A method to decide the dimension of data by the MDL criterion. (English summary)
Wolf, Michael[3] *see* **Ledoit, Olivier, 2004m:62130**

62J10 Analysis of variance and covariance

Aghili, Arman On minimum variance unbiased estimators of exponential families. (English summary)
Ahmed, Md. N. (*with* Sen, Kalipada) Application of MINQUE and other methods for estimation of unknown error variances in heteroscedastic four-way classification with single observation per cell. (English summary)
Ahn, Chulhwan *see* **Lee, Sunho**
Akritas, Michael G. *see* **Du, Yunling et al., 2004d:62248**
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Baldi, Pierre (*with* Batchelder, Wiiliam H.) Bounds on variances of estimators for multinomial processing tree models. (English summary) **2004d:62246**
Batchelder, William H. *see* **Baldi, Pierre, 2004d:62246**
Beaulieu, Norman C. *see* **Young, David J., 2004b:62170**
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Carter, Christopher K. *see* **Wong, Frederick et al., 2004i:62132**
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Clarke, Bertrand *see* **Gustafson, Paul, 2004i:62129**
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Deo, Rohit S. (*with* Richardson, Matthew) On the asymptotic power of the variance ratio test. (English summary) **2004a:62129**
Dhorne, Thierry *see* **Marin, Jean-Michel, 2004b:62166**
Du, Yunling (*with* Akritas, Michael G.; Van Keilegom, Ingrid) Nonparametric analysis of covariance for censored data. (English summary) **2004d:62248**
Ehm, Werner (*with* Genton, Marc G.; Gneiting, Tilmann) Stationary covariances associated with exponentially convex functions. (English summary) **2004c:62151**
Eubank, R. L. The Cholesky decomposition in state space models. (English summary) **2004c:62152**
Everall, Ian P. *see* **Landau, Sabine et al.**
Firth, David (*with* de Menezes, Renée X.) Quasi-variances. (English summary)
Fu, Yuanzhai A method to estimate the error variance matrix W_t of BDLM by generalized exponentially weighted regression. (English and Chinese summaries) **2004d:62249**
Fuller, Wayne A. *see* **Wang, Junyuan, 2004h:62128**
Gadbury, Gary L. (*with* Iyer, Hari K.) On estimating subject-treatment interaction. (English summary) **2004d:62250**
Galvão, Nila M. S. *see* **Cribari-Neto, Francisco**
Gao, H. *see* **Kulinskaya, E. et al.**
Genton, Marc G. *see* **Ehm, Werner et al., 2004c:62151**
Georgiou, Tryphon T. Toeplitz covariance matrices and the von Neumann relative entropy. (English summary) **2004a:62130**
Giraitis, Liudas (*with* Kokoszka, P. S.; Leipus, Remigijus; Teyssière, Gilles) Rescaled variance and related tests for long memory in volatility and levels. (English summary) **2004b:62164**

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Glynn, Peter W. (*with* Szechtman, Roberto) Some new perspectives on the method of control variates. (English summary) **2004b:62165**
Gneiting, Tilmann *see* **Ehm, Werner et al., 2004c:62151**
Graßhoff, Ulrike (*with* Schwabe, Rainer) On the analysis of paired observations. (English summary) **2004i:62128**
Gui, Yong Xin (*with* Yan, Guo Yi; Liu, Xian Long) Estimation of the covariance matrix of an extended growth curve model with covariate variables. (Chinese. English and Chinese summaries)
Gupta, Vinod Kumar *see* **Bhar, Lalmohan**
Gustafson, Paul (*with* Clarke, Bertrand) Decomposing posterior variance. (English summary) **2004i:62129**
Hall, Peter G. (*with* Yao, Qiwei) Inference in components of variance models with low replication. (English summary) **2004c:62153**
Hanif, Muhammad *see* **Shahbaz, Muhammad Qaiser**
Hartung, Joachim (*with* Makambi, Kepher H.) Positive estimation of the between-study variance in meta-analysis. (English summary) **2004a:62131**
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Ishwaran, Hemant (*with* Rao, J. Sunil) Detecting differentially expressed genes in microarrays using Bayesian model selection. (English summary) **2004e:62128**
Iyer, Hari K. *see* **Gadbury, Gary L., 2004d:62250**
Jansson, Michael Consistent covariance matrix estimation for linear processes. (English summary) **2004a:62133**
Jover, Lluís *see* **Carrasco, Josep L.**
Jung, Kang-Mo *see* **Kim, Myung Geun**
Khorshidian, K. (*with* Soltani, A. R.) Covariance matrix of multivariate reward processes with nonlinear reward functions. (English and Persian summaries) **2004e:62129**
Kieser, M. *see* **Wüst, K.**
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Kim, Jae Kwang (*with* Sitter, R. R.) Efficient replication variance estimation for two-phase sampling. (English summary)
Kim, Myung Geun (*with* Jung, Kang-Mo) Local influence analysis of the proportional covariance matrices model. (English summary)
Knapp, Guido *see* **Hartung, Joachim et al., 2004k:62172** *and* **2004k:62173**
Koebel, Bertrand M. First-order serial correlation in seemingly unrelated regressions. (English summary) **2004k:62174**
Kohn, Robert Jacob *see* **Wong, Frederick et al., 2004i:62132**
Koivunen, Visa *see* **Visuri, S. et al., 2004d:62252**
Kokoszka, P. S. *see* **Giraitis, Liudas et al., 2004b:62164**
Krzanowski, W. J. Biplots for multifactorial analysis of distance. (English and French summaries)
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Kuna-Broniowska, Izabela Covariance analysis of hierarchical classification in split plot design with respect to the control. (English summary)
Laake, Petter *see* **Thoresen, Magne, 2004g:62130**
Landau, Sabine (*with* Rabe-Hesketh, Sophia; Everall, Ian P.) Nonparametric one-way analysis of variance of replicated bivariate spatial point patterns. (English summary)
Langholz, Bryan *see* **Xiang, Anny Hui**
Lee, Sangyeol (*with* Na, Okyoung; Na, Seongryong) On the cusum of squares test for variance change in nonstationary and nonparametric time series models. (English summary) **2004i:62130**
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Leipus, Remigijus *see* **Giraitis, Liudas et al., 2004b:62164**
Leung, Pui Lam (*with* Ng, Foon Yip) Improved estimation of a covariance matrix in an elliptically contoured matrix distribution. (English summary) **2004j:62147**
Li, Guo Ying[1] *see* **Tian, Maozai, 2004i:62131**
Liechty, John C. (*with* Liechty, Merrill W.; Müller, Peter[2]) Bayesian correlation estimation. (English summary)
Liechty, Merrill W. *see* **Liechty, John C. et al.**
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Liu, Xian Long *see* **Gui, Yong Xin et al.**
MacEachern, Steven N. *see* **De Iorio, Maria et al., (2004d:62006)**
Madsen, Jesper (*with* Tabanera y Palacios, René) Bartlett's test applied to variance component models. (English summary) **2004g:62129**
Makambi, Kepher H. *see* **Hartung, Joachim, 2004a:62131** *and* **2004h:62127**
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Marin, Jean-Michel (*with* Dhorne, Thierry) Optimal quadratic unbiased estimation for models with linear Toeplitz covariance structure. (English summary) **2004b:62166**
Mather, Katrina J. (*with* Rayner, J. C. W.) Testing equality of corresponding variances from multiple covariance matrices. (English summary)
de Menezes, Renée X. *see* **Firth, David**
Mohtashami Borzadaran, G. R. Analogue of the Bhattacharyya matrix in natural exponential families (NEF). (English summary) **2004m:62160**
Möttönen, Jyrki *see* **Visuri, S. et al., 2004d:62252**
Müller, Peter[2] *see* **De Iorio, Maria et al., (2004d:62006)** *and* **Liechty, John C. et al.**
Na, Okyoung *see* **Lee, Sangyeol et al., 2004i:62130**
Na, Seongryong *see* **Lee, Sangyeol et al., 2004i:62130**
Nairy, K. Subrahmanya (*with* Rao, K. Aruna) Tests of coefficients of variation of normal population. (English summary)
Namba, Akio On the use of the Stein variance estimator in the double k-class estimator when each individual regression coefficient is estimated. (English summary) **2004a:62134**
Neudecker, Heinz *see* **Satorra, Albert, 2004d:62251**
Ng, Foon Yip *see* **Leung, Pui Lam, 2004j:62147**
Ng, Kai Wang *see* **Tse, Y. K. et al.**
Norell, Lennart ANOVA estimators under imbalance in the one-way random model. (English summary) **2004a:62135**
O'Hagan, Anthony *see* **Schmidt, Alexandra M.**
Oja, Hannu *see* **Visuri, S. et al., 2004d:62252**; **Ollila, Esa et al., 2004m:62161** *and* **Croux, Christophe et al., (2004d:62007)**
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Papayanopoulos, Lee Generalized variance of multivariate omega functions and duality. (English summary) **2004b:62167**
Polasek, Wolfgang Multivariate regression and ANOVA models with outliers: a comparative approach. (English summary)
Pourahmadi, Mohsen *see* **Wu, Wei Biao, 2004j:62148**
Rabe-Hesketh, Sophia *see* **Landau, Sabine et al.**
Rai, Anil *see* **Ramasubramanian, V. et al.**
Ramasubramanian, V. (*with* Singh, Randhir; Rai, Anil) Resampling-based variance estimation under two-phase sampling. (English and Hindi summaries)
Rao, J. Sunil *see* **Ishwaran, Hemant, 2004e:62128**
Rao, K. Aruna *see* **Nairy, K. Subrahmanya**
Rao, Poduri S. R. S. One-way random effects model with a covariate: nonnegative estimators. (English summary) (*see* **2004a:62007**)
Rayner, J. C. W. *see* **Mather, Katrina J.**
Richardson, Matthew *see* **Deo, Rohit S., 2004a:62129**
Rosner, Gary L. *see* **De Iorio, Maria et al., (2004d:62006)**
Roy, Debesh (*with* Safiquzzaman, Md.) Jackknifing a general class of estimators and variance estimation under two-phase sampling. (English summary)
Safiquzzaman, Md. *see* **Roy, Debesh**
Samawi, Hani M. *see* **Al-Saleh, Mohammad Fraiwan**
Sato, Yoshiharu *see* **Tokairin, Tomoya**
Satorra, Albert (*with* Neudecker, Heinz) A matrix equality useful in goodness-of-fit testing of structural equation models. (English summary) **2004d:62251**
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Schott, James R. Testing for elliptical symmetry in covariance-matrix-based analyses. (English summary) **2004b:62168**
Schwabe, Rainer *see* **Graßhoff, Ulrike, 2004i:62128**
Scheult, Allan H. (*with* Tukey, John Wilder) Towards robust analysis of variance. (English summary) (*see* **2004j:62008**)
Seier, Edith *see* **Bonett, Douglas G.**
Sen, Kalipada *see* **Ahmed, Md. N.**
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Shahbaz, Muhammad Qaiser (*with* Hanif, Muhammad) Variance formulas for Horvitz-Thompson estimator using first order inclusion probabilities. (English summary)
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Sitter, R. R. *see* **Kim, Jae Kwang**
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Staum, Jeremy *see* **Glasserman, Paul, 2004j:62146**
Szechtman, Roberto *see* **Glynn, Peter W., 2004b:62165**
Tabanera y Palacios, René *see* **Madsen, Jesper, 2004g:62129**
Teyssière, Gilles *see* **Giraitis, Liudas et al., 2004b:62164**
Thoresen, Magne (*with* Laake, Petter) The use of replicates in logistic measurement error modelling. (English summary) **2004g:62130**
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Tse, Y. K. (*with* Ng, Kai Wang; Zhang, Xibin) A small-sample overlapping variance-ratio test. (English summary)
Tukey, John Wilder *see* **Seheult, Allan H.**, (**2004j:62008**)
Van Keilegom, Ingrid *see* **Du, Yunling et al.**, **2004d:62248**
Venkateswarlu, Kondragunta *see* **Chaubey, Yogendra P.**, (**2004a:62006**)
Visuri, S. (*with* Ollila, Esa; Koivunen, Visa; Möttönen, Jyrki; Oja, Hannu) Affine equivariant multivariate rank methods. (English summary) **2004d:62252**
Walter, S. D. *see* **Shoukri, Mohamed M. et al.**
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Wei, Bo Cheng (*with* Wang, Shu Jia) Analysis of covariance structures by quasi-likelihood with dual geometrical approach. (Chinese. English and Chinese summaries) **2004h:62129**
Wildner, R. *see* **Bosch, V.**
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Xu, Xing Zhong *see* **Zhang, Li Zhen**, **2004e:62130**
Yan, Guo Yi *see* **Gui, Yong Xin et al.**
Yang, Yee Hwa *see* **Speed, Terence P.**
Yao, Qiwei *see* **Hall, Peter G.**, **2004c:62153**
Yeh, Yingchieh (*with* Schmeiser, Bruce) On the robustness of batching estimators. (English summary)
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Zhang, Xibin *see* **Tse, Y. K. et al.**

Items with secondary classifications in 62J10

Akritas, Michael G. *see* **Tsangari, Haritini**, **2004k:62125**
Alexopoulos, C. (*with* Goldsman, David M.; Tsui, Kwok-Leung; Jiang, W.) SPC monitoring and variance estimation. (English summary)
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Alonso, Ariel (*with* Geys, Helena; Molenberghs, Geert; Kenward, Michael G.; Vangeneugden, Tony) Validation of surrogate markers in multiple randomized clinical trials with repeated measurements. (English summary)
Anderson, Kirk *see* **Terpstra, Jeffrey T. et al.**, **2004b:62204**
Anderson, Marti J. (*with* Robinson, John) Generalized discriminant analysis based on distances. (English summary) **2004f:62133**
Arboretti Giancristofaro, Rosa A new conjoint analysis procedure with application to marketing research. (English summary)
Badea, Petrică On a class of aggregation operators and learning in expert systems. (English summary)
Baran, Robert H. *see* **Jernigan, Robert W.**, **2004e:62155**
Berger, Yves G. (*with* Skinner, Chris J.) Variance estimation for a low income proportion. (English summary)
Berry, Charles C. *see* **Natarajan, Loki et al.**
Bhandari, Subir Kumar *see* **SahaRay, Rita**, **2004c:62160**
Bhatia, V. K. *see* **Kumar Paul, Amrit**; **Raju, B. M. K.** *and* **Kiran, P. Sandhya et al.**
Bhattacharyya, Malay Fuzzy conjoint analysis. (English summary) (*see* **2004a:62013**)
Brown, Morton B. *see* **Wang, Yuedong et al.**
Buonaccorsi, John P. (*with* Elkinton, Joseph; Koenig, Walt; Duncan, Richard P.; Kelly, Dave; Sork, Victoria) Measuring mast seeding behavior: relationships among population variation, individual variation and synchrony. (English summary)
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Calzolari, Giorgio *see* **Fiorentini, Gabriele et al.**
Chen, Mao Xue Comparison of estimates on covariance matrix. (Chinese. English and Chinese summaries) **2004h:62119**
Chen, Wei *see* **Zhang, Wei Guo[2] et al.**
Chen, Zehua *see* **Wang, You-Gan et al.**
Chiang, Chin Long ★ Statistical methods of analysis.
Churchill, Gary A. *see* **Wu, Hao et al.**, (**2004e:62008**)
Cirpka, Olaf A. *see* **Nowak, Wolfgang et al.**, **2004b:86033**
Clark, Virginia A. *see* **Mickey, Ruth M. et al.**, **2004k:62004**
Costa, Àlex (*with* Satorra, Albert; Ventura, Eva) An empirical evaluation of small area estimators. (English and Catalan summaries)
Cox, D. R. (*with* Solomon, P. J.) ★ Components of variance. **2004f:62006**
Cribari-Neto, Francisco Asymptotic inference under hetroskedasticity of unknown form. (English summary)
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Cui, Xiangqin *see* **Wu, Hao et al.**, (**2004e:62008**)
Czitrom, Veronica Statistics in the semiconductor industry. (*see* **2004h:62006**)
De Iorio, Maria (*with* Müller, Peter[2]; Rosner, Gary L.; MacEachern, Steven N.) An ANOVA model for dependent random measures. (English summary)
Diba, R. F (*with* Sharmin, S.; Sen, Kalipada) HANOVA for 2-factorial nested classification with equal number of observation per cell assuming error variances vary from cell to cell. (English summary)
Diggle, Peter J. (*with* Heagerty, Patrick J.; Liang, Kung-Yee; Zeger, Scott L.) ★ Analysis of longitudinal data.
Dijksterhuis, G. B. *see* **Gower, John C.**, **2004m:62005**
Diniz, Carlos Alberto Ribeiro *see* **Tutia, Marcelo Hiroshi et al.**
Ducinskas, Kestutis *see* **Lesauskienė, E.**, **2004k:86017**
Dunajeva, Olga ★ Asymptotic matrix methods in statistical inference problems. **2004h:62001**
Duncan, Richard P. *see* **Buonaccorsi, John P. et al.**
Dunn, Olive Jean *see* **Mickey, Ruth M. et al.**, **2004k:62004**
Eilers, Paul H. C. *see* **Kauermann, Göran**
Eldar, Yonina C. (*with* Oppenheim, Alan V.) MMSE whitening and subspace whitening. (English summary) **2004f:94016**
Elkinton, Joseph *see* **Buonaccorsi, John P. et al.**
d'Estampes, Ludovic *see* **Garel, Bernard et al.**, **2004m:60034**
Fedoryanich, Tetyana V. A criterion for testing a hypothesis on the covariance function of a homogeneous and an isotropic Gaussian random field. (Ukrainian. English and Ukrainian summaries)
Fiorentini, Gabriele (*with* Sentana, Enrique; Calzolari, Giorgio) On the validity of the Jarque-Bera normality test in conditionally heteroskedastic dynamic regression models. (English summary)
Follmann, Dean A. *see* **Proschan, Michael A.**
Fonseca, Miguel (*with* Mexia, João Tiago; Zmyślony, Roman) Exact distribution for the generalized F tests. (English summary) **2004f:62042**
Foschi, Paolo (*with* Kontoghiorghes, Erricos John) Estimating seemingly unrelated regression models with vector autoregressive disturbances. (English summary) **2004g:62159**
Garel, Bernard (*with* d'Estampes, Ludovic; Tjøstheim, Dag) Revealing some unexpected dependence properties of linear combinations of stable random variables using symmetric covariation. (English summary) **2004m:60034**
Gasche, Christoph *see* **Natarajan, Loki et al.**
Gautama, Temujin (*with* Mandic, Danilo P.; Van Hulle, Marc M.) The delay vector variance method for detecting determinism and nonlinearity in time series. (English summary) **2004k:62200**
Geelhoed, B. (*with* Glass, H. J.) Estimators for particulate sampling derived from a multinomial distribution. (English summary)
Gerber, Hans U. (*with* Leung, Ping Kei Bartholomew; Shiu, Elias S. W.) Indicator function and Hattendorff theorem. (English summary) **2004e:62188**
Geys, Helena *see* **Alonso, Ariel et al.**
Ghosh, Himadri Optimal design for point and interval estimation of ratio of variance components in one way ANOVA model. (English and Hindi summaries) **2004m:62164**
Glass, H. J. *see* **Geelhoed, B.**
Gneiting, Tilmann *see* **Mitra, Sinjini et al.**, **2004f:60082**
Goldsman, David M. *see* **Alexopoulos, C. et al.**
Goldwasser, M. A. (*with* Tian, Lu[2]; Wei, L. J.) Statistical inference for infinite-dimensional parameters via asymptotically pivotal estimating functions. (English summary)
Gonçalves, Silvia (*with* de Jong, Robert M.) Consistency of the stationary bootstrap under weak moment conditions. (English summary) **2004i:91164**
Gong, Li Sha (*with* Huang, Meng Qiao) Estimation of semiparametric errors-in-variance model. (Chinese. English and Chinese summaries)
Gower, John C. (*with* Dijksterhuis, G. B.) ★ Procrustes problems. **2004m:62005**
Guo, Wen-yan *see* **Xue, Hong-gang et al.**, **2004j:91159**
Gupta, Arjun K. (*with* Kabe, D. G.) On the noncentral distributions of multiple and partial correlation matrices. (English summary)
Guttman, Irwin (*with* Menzefricke, Ulrich) Posterior distributions for functions of variance components. (English summary)
Haddad, John N. On the closed form of the covariance matrix and its inverse of the causal ARMA process. (English summary)
Hardin, Johanna (*with* Rocke, David M.) Outlier detection in the multiple cluster setting using the minimum covariance determinant estimator. (English summary)
Heagerty, Patrick J. *see* **Diggle, Peter J. et al.**
Hettmansperger, T. P. *see* **Nadar, M. et al.**, **2004h:62093**
Hill, William G. Heterogeneity of genetic and environmental variance of quantitative traits. (English summary)
Hiroshima, Takuya Estimation of the Gentan probability based on the price of logs. (Japanese. English and Japanese summaries)
Hocking, Ronald R. ★ Methods and applications of linear models. **2004b:62002**
Hoeting, Jennifer A. (*with* Tweedie, Richard L.; Olver, Christine S.) Transform estimation of parameters for stage-frequency data. (English summary) **2004h:62057**
Holmes, D. J. *see* **Skinner, Chris J.**, (**2004a:62008**)
Horn, Paul S. (*with* Wolfe, Douglas A.) Extending Comtet's decomposability of integer permutations. (English summary)
Huang, Jianhua Z. Asymptotics for polynomial spline regression under weak conditions. (English summary) **2004j:62137**
Huang, Kuo-Chung Mixed random systematic sampling designs. (English summary) **2004k:62033**
Huang, Meng Qiao *see* **Gong, Li Sha**
Huggins, Richard M. *see* **Li, Ning[5] et al.**, **2004e:62192**
Imai, Hideyuki *see* **Yoshida, Kiyotaka et al.**, **2004b:62147**
Ip, Wai Cheung *see* **Yang, Ying[1] et al.**, **2004j:62079**

Jernigan, Robert W. (*with* Baran, Robert H.) Testing lumpability in Markov chains. (English summary) **2004e:62155**
Jiang, W. *see* **Alexopoulos, C. et al.**
Johansen, Søren The asymptotic variance of the estimated roots in a cointegrated vector autoregressive model. (English summary) **2004i:62161**
Jones, Michael C. *see* **Yu, Ke Ming**
de Jong, Robert M. *see* **Gonçalves, Silvia, 2004i:91164**
Jowaheer, Vandna *see* **Sutradhar, Brajendra C.**
Jung, Byoung Cheol *see* **Song, Seuck Heun**
Kabe, D. G. *see* **Gupta, Arjun K.**
Kauermann, Göran (*with* Eilers, Paul H. C.) Modeling microarray data using a threshold mixture model. (English and French summaries)
Ke, Chunlei *see* **Wang, Yuedong et al.**
Kelly, Dave *see* **Buonaccorsi, John P. et al.**
Kenward, Michael G. *see* **Alonso, Ariel et al.**
Kerr, M. Kathleen *see* **Wu, Hao et al., (2004e:62008)**
Kim, Jae Kwang (*with* Kim, Yongdai) Inference after stochastic regression imputation under response model. (English summary) **2004f:62030**
Kim, Jong-Min (*with* Warde, William D.) A stratified Warner's randomized response model. (English summary) **2004k:62036**
Kim, Yongdai *see* **Kim, Jae Kwang, 2004f:62030**
Kiran, P. Sandhya (*with* Bhatia, V. K.; Rao, Atmakuri Ramakrishna) Robust method of estimation of heritability. (English summary)
Koenig, Walt *see* **Buonaccorsi, John P. et al.**
Kontoghiorghes, Erricos John *see* **Foschi, Paolo, 2004g:62159**
Koshevoĭ, G. A. (*with* Möttönen, Jyrki; Oja, Hannu) A scatter matrix estimate based on the zonotope. (English summary) **2004h:62102**
Kubokawa, Tatsuya (*with* Srivastava, Muni S.) Estimating the covariance matrix: a new approach. (English summary) **2004e:62015**
Kukush, A. G. (*with* Maschke, Erich Otto) The efficiency of adjusted least squares in the linear functional relationship. (English summary) **2004m:62155**
— (*with* Schneeweiss, Hans; Wolf, Roland) Three estimators for the Poisson regression model with measurement errors. (English summary)
Kumar, Somesh (*with* Tripathi, Y. M.) A note on estimating moments of a selected uniform population. (English summary) **2004m:62060**
Kumar Paul, Amrit (*with* Bhatia, V. K.) Estimation of heritability using some auxiliary traits in dairy cattle. (English and Hindi summaries)
Kwan, P. Y. K. *see* **Yang, Ying[1] et al., 2004j:62079**
Kwan, Y. K. *see* **Yang, Ying[1] et al., 2004j:62079**
Kwong, Koon Shing *see* **Liu, Wei[4], 2004f:62052**
Lahiri, Soumendra N. *see* **Lee, Yoon Dong, 2004d:62201**
Langsrud, Øyvind The geometrical interpretation of statistical tests in multivariate linear regression. (English summary)
Lee, Deukhwan *see* **Lee, Seung-Chun, 2004g:62059**
Lee, Jack C. *see* **Lin, Shu-Hui, 2004d:62210**
Lee, Seung-Chun (*with* Lee, Deukhwan) Bayesian analysis of multivariate threshold animal models using Gibbs sampling. (English summary) **2004g:62059**
Lee, Sik-Yum *see* **Zhu, Hong-Tu**
Lee, Yoon Dong (*with* Lahiri, Soumendra N.) Least squares variogram fitting by spatial subsampling. (English summary) **2004d:62201**
Leite, José Galvão *see* **Tutia, Marcelo Hiroshi et al.**
Lesauskienė, E. (*with* Ducinskas, Kestutis) Universal Kriging for spatio-temporal data. (English and Lithuanian summaries) **2004k:86017**
Leung, Ping Kei Bartholomew *see* **Gerber, Hans U. et al., 2004e:62188**
Lewontin, Richard C. *see* **Simpson, George Gaylord et al., 2004m:92002**
Li, Ning[5] (*with* Qian, Guoqi; Huggins, Richard M.) A random effects model for diseases with heterogeneous rates of infection. (English summary) **2004e:62192**
Liang, Kung-Yee *see* **Diggle, Peter J. et al.**
Lin, Shu-Hui (*with* Lee, Jack C.) Exact tests in simple growth curve models and one-way ANOVA with equicorrelation error structure. (English summary) **2004d:62210**
Ling, Shiqing (*with* McAleer, Michael) Asymptotic theory for a vector ARMA-GARCH model. (English summary) **2004a:62162**
Liu, Feng *see* **Wang, Zhi Zhong[2]**
Liu, Jian Bin *see* **Wang, You-Gan et al.**
Liu, Le Ping Influence analysis of ridge estimators in growth curve models with covariance matrix disturbance. (Chinese. English and Chinese summaries) **2004a:62128**
Liu, Wei[4] (*with* Kwong, Koon Shing) A multiple directional decision procedure for successive comparisons of treatment effects. (English summary) **2004f:62052**
Luo, Shun Long (*with* Luo, You-feng) Correlation and entanglement. (English summary) **2004k:81063**
Luo, You-feng *see* **Luo, Shun Long, 2004k:81063**
MacEachern, Steven N. *see* **De Iorio, Maria et al.**
Mak, T. K. (*with* Nebebe, Fassil) Efficiency measure, modelling and estimation in combined array designs. (English summary)
Mandic, Danilo P. *see* **Gautama, Temujin et al., 2004k:62200**
Marchetti, Carol E. *see* **Srivastava, Deo Kumar et al., (2004a:62006)**
Marciniuk, Agnieszka *see* **Burnecki, Krzysztof et al.**
Maschke, Erich Otto *see* **Kukush, A. G., 2004m:62155**
Mazmanoglu, Adnan Investigation of the effects of teaching a comprehensive course in sections by different instructors on the rate of the success of the students in basic mathematics education. (English summary)
Mazzaro, D. (*with* Pesarin, F.; Salmaso, Luigi) A discussion on multi-way ANOVA using a permutation approach. (English and Italian summaries) **2004d:62175**
McAleer, Michael *see* **Ling, Shiqing, 2004a:62162**
McKean, Joseph W. *see* **Terpstra, Jeffrey T. et al., 2004b:62204**
Meddahi, Nour ARMA representation of integrated and realized variances. (English summary) **2004k:62207**
Meng, Daniel *see* **Sun, Yijun et al., 2004d:62205**
Mentz, Raúl P. (*with* Morettin, Pedro A.; Toloi, Clélia M. C.) Bias correction for estimators of the residual variance in the ARMA(1,1) model. (English summary) **2004e:62161**
Menzefricke, Ulrich *see* **Guttman, Irwin**
Mexia, João Tiago *see* **Fonseca, Miguel et al., 2004f:62042**
Miao, Bao-shan *see* **Xue, Hong-gang et al., 2004j:91159**
Michalski, Andrzej On some aspects of the optimal statistical inference on variance components in mixed linear models. (English summary)
Mickey, Ruth M. (*with* Dunn, Olive Jean; Clark, Virginia A.) ★ Applied statistics. **2004k:62004**
Milliken, George A. Mixed models and repeated measures: some illustrative industrial examples. (*see* **2004h:62006**)
Mitra, Sinjini (*with* Gneiting, Tilmann; Sasvári, Zoltán) Polynomial covariance functions on intervals. (English summary) **2004f:60082**
Molenberghs, Geert *see* **Alonso, Ariel et al.**
(Møller, Jesper[1]) *see* **Spatial statistics and computational methods, 2004f:62012**
Moors, J. J. A. (*with* Strijbosch, L. W. G.) Two-step sequential sampling. (English summary)
Morettin, Pedro A. *see* **Mentz, Raúl P. et al., 2004e:62161**
Möttönen, Jyrki *see* **Koshevoĭ, G. A. et al., 2004h:62102**
Mudholkar, Govind S. *see* **Srivastava, Deo Kumar et al., (2004a:62006)**
Müller, Peter[2] *see* **De Iorio, Maria et al.**
Nadar, M. (*with* Hettmansperger, T. P.; Oja, Hannu) The asymptotic covariance matrix of the Oja median. (English summary) **2004h:62093**
Natarajan, Loki (*with* Berry, Charles C.; Gasche, Christoph) Estimation of spontaneous mutation rates. (English and French summaries)
Nebebe, Fassil *see* **Mak, T. K.**
Neumann, Konrad (*with* Zontek, Stefan) On geometry of the set of admissible invariant quadratic estimators in balanced two variance components model. (English summary) **2004j:62042**
Norell, Lennart On the optimum number of levels in the one-way model with random effects. (English summary) **2004j:62152**
Nowak, Wolfgang (*with* Tenkleve, Sascha; Cirpka, Olaf A.) Efficient computation of linearized cross-covariance and auto-covariance matrices of interdependent quantities. (English summary) **2004b:86033**
Oja, Hannu *see* **Nadar, M. et al., 2004h:62093** *and* **Koshevoĭ, G. A. et al., 2004h:62102**
Olver, Christine S. *see* **Hoeting, Jennifer A. et al., 2004h:62057**
Oppenheim, Alan V. *see* **Eldar, Yonina C., 2004f:94016**
Owen, Art B. The dimension distribution and quadrature test functions. (English summary) **2004a:65006**
Park, Changsoon A Markov chain representation of statistical process monitoring procedure under an ARIMA(0, 1, 1) model. (Korean. English and Korean summaries) **2004c:62183**
Peccati, Giovanni Hoeffding decompositions for exchangeable sequences and chaotic representation of functionals of Dirichlet processes. (English and French summaries) **2004f:60081**
Peña, Daniel *see* **Alonso, Andrés M. et al., 2004m:62180** *and* **(2004a:62009)**
Pesarin, F. *see* **Mazzaro, D. et al., 2004d:62175**
Proschan, Michael A. (*with* Follmann, Dean A.) A permutation approach to the Behrens-Fisher problem. (English summary)
Qian, Guoqi *see* **Li, Ning[5] et al., 2004e:62192**
Raju, B. M. K. (*with* Bhatia, V. K.) Bias in the estimates of sensitivity from incomplete $G \times E$ tables. (English and Hindi summaries)
Rao, Atmakuri Ramakrishna *see* **Kiran, P. Sandhya et al.**
Rao, Poduri S. R. S. (*with* Zaino, Nicholas) Nonlinear mixed effects models: recent developments. (English summary) (*see* **2004k:62018**)
Robinson, John *see* **Anderson, Marti J., 2004f:62133**
Rocke, David M. *see* **Hardin, Johanna**
Roe, Anne *see* **Simpson, George Gaylord et al., 2004m:92002**
Romo, Juan J. *see* **Alonso, Andrés M. et al., 2004m:62180** *and* **(2004a:62009)**
von Rosen, Dietrich *see* **Sun, Yijun et al., 2004d:62205**
Rosner, Gary L. *see* **De Iorio, Maria et al.**
SahaRay, Rita (*with* Bhandari, Subir Kumar) DS-optimal designs in one way ANOVA. (English summary) **2004c:62160**
Salmaso, Luigi *see* **Mazzaro, D. et al., 2004d:62175**
Sasvári, Zoltán *see* **Mitra, Sinjini et al., 2004f:60082**
Sato, Yoshiharu *see* **Yoshida, Kiyotaka et al., 2004b:62147**
Satorra, Albert *see* **Costa, Àlex et al.**
Schäfer, Dominik When should we be prepared to improve a portfolio by lacklustre stocks?—a note on log-optimal portfolio selection. (English summary) **2004i:91095**
Schneeweiss, Hans *see* **Kukush, A. G. et al.**
Sen, Kalipada *see* **Diba, R. F et al.**
Sentana, Enrique *see* **Fiorentini, Gabriele et al.**
Shapiro, Alexander Monte Carlo sampling methods. (English summary)
Sharmin, S. *see* **Diba, R. F et al.**
Shiu, Elias S. W. *see* **Gerber, Hans U. et al., 2004e:62188**
Simpson, George Gaylord (*with* Roe, Anne; Lewontin, Richard C.) ★ Quantitative zoology. **2004m:92002**
Sinha, Bimal K. *see* **Sun, Yijun et al., 2004d:62205**
Skinner, Chris J. (*with* Holmes, D. J.) Random effects models for longitudinal survey data. (*see* **2004a:62008**)
— *see also* **Berger, Yves G.**
Solomon, P. J. *see* **Cox, D. R., 2004f:62006**
Song, Seuck Heun (*with* Jung, Byoung Cheol) A comparison of estimation in an unbalanced linear mixed model. (Korean. English and Korean summaries)
Sork, Victoria *see* **Buonaccorsi, John P. et al.**
Sparks, Ross Monitoring for increases in process variance. (English summary)
Speed, Terence P. John W. Tukey's contributions to analysis of variance. (English summary) **2004d:62004**
Srivastava, Deo Kumar (*with* Mudholkar, Govind S.; Marchetti, Carol E.) A class of robust stepwise tests for MANOVA. (English summary) (*see* **2004a:62006**)
Srivastava, Muni S. *see* **Kubokawa, Tatsuya, 2004e:62015**

Stokes, S. Lynne Using auxiliary information for improving estimation in the number of species problem. (English summary)
Strijbosch, L. W. G. *see* **Moors, J. J. A.**
Sun, Yijun (*with* Sinha, Bimal K.; von Rosen, Dietrich; Meng, Daniel) Nonnegative estimation of variance components in multivariate unbalanced mixed linear models with two variance components. (English summary) **2004d:62205**
Sundberg, Rolf Conditional statistical inference and quantification of relevance. (English summary) **2004a:62174**
Sutradhar, Brajendra C. (*with* Jowaheer, Vandna) On familial longitudinal Poisson mixed models with gamma random effects. (English summary)
Tenkleve, Sascha *see* **Nowak, Wolfgang et al., 2004b:86033**
Terpstra, Jeffrey T. (*with* McKean, Joseph W.; Anderson, Kirk) Studentized autoregressive time series residuals. (English summary) **2004b:62204**
Tian, Lu² *see* **Goldwasser, M. A. et al.**
Tjøstheim, Dag *see* **Garel, Bernard et al., 2004m:60034**
Toloi, Clélia M. C. *see* **Mentz, Raúl P. et al., 2004e:62161**
Tonda, Tetsuji (*with* Wakaki, Hirofumi) Asymptotic expansion of the null distribution of the likelihood ratio statistic for testing the equality of variances in a nonnormal one-way ANOVA model. (English summary) **2004b:62046**
Trenkel, Verena M. Density estimator for strip transects when animals show directional movement and observation speed is slow. (English summary)
Tripathi, Y. M. *see* **Kumar, Somesh, 2004m:62060**
Tsangari, Haritini (*with* Akritas, Michael G.) Nonparametric ANCOVA with two and three covariates. (English summary) **2004k:62125**
Tsui, Kwok-Leung *see* **Alexopoulos, C. et al.**
(Tukey, John Wilder) *see* **Speed, Terence P., 2004d:62004**
Tutia, Marcelo Hiroshi (*with* Diniz, Carlos Alberto Ribeiro; Leite, José Galvão) Bayesian inference for the probability of success of a correlated binomial distribution. (Portuguese. English and Portuguese summaries)
Tweedie, Richard L. *see* **Hoeting, Jennifer A. et al., 2004h:62057**
Vangeneugden, Tony *see* **Alonso, Ariel et al.**
Van Hulle, Marc M. *see* **Gautama, Temujin et al., 2004k:62200**
Vasdekis, V. G. S. Form and selection of covariance adjusted estimators in repeated measures models. (English summary) **2004a:62138**
Ventura, Eva *see* **Costa, Alex et al.**
Wakaki, Hirofumi *see* **Tonda, Tetsuji, 2004b:62046**
Wang, Li Yan *see* **Zhang, Wei Guo² et al.**
Wang, You-Gan (*with* Chen, Zehua; Liu, Jian Bin) General ranked set sampling with cost considerations. (English and French summaries)
Wang, Yuedong (*with* Ke, Chunlei; Brown, Morton B.) Shape-invariant modeling of circadian rhythms with random effects and smoothing spline ANOVA decompositions. (English and French summaries)
Wang, Zhi Zhong² (*with* Liu, Feng) Admissibility of quadratic estimates of covariance. (Chinese. English and Chinese summaries)
Warde, William D. *see* **Kim, Jong-Min, 2004k:62036**
Wei, L. J. *see* **Goldwasser, M. A. et al.**
Weron, Aleksander *see* **Burnecki, Krzysztof et al.**
Wimmer, Gejza (*with* Witkovský, Viktor) Between group variance component interval estimation for the unbalanced heteroscedastic one-way random effects model. (English summary) **2004d:62116**
Witkovský, Viktor *see* **Wimmer, Gejza, 2004d:62116**
Wolf, Roland *see* **Kukush, A. G. et al.**
Wolfe, Douglas A. *see* **Horn, Paul S.**
Woodroofe, Michael *see* **Zhang, Tonglin, 2004d:62117**
Wu, Hao (*with* Kerr, M. Kathleen; Cui, Xiangqin; Churchill, Gary A.) MAANOVA: a software package for the analysis of spotted cDNA microarray experiments. (English summary) (*see* **2004e:62008**)
Wywiał, Janusz Conditional estimation of average on the basis of weighting data. (English summary)
Xu, Cheng Xian *see* **Xue, Hong-gang et al., 2004j:91159**
Xue, Hong-gang (*with* Xu, Cheng Xian; Guo, Wen-yan; Miao, Bao-shan) Portfolio's sensitivity analysis with riskless asset. (English and Chinese summaries) **2004j:91159**
Yanagihara, Hirokazu (*with* Yoshimoto, Atsushi) Applicability of a GMANOVA model to tree diameter growth analysis. (Japanese. English and Japanese summaries)
Yang, Ying¹ (*with* Ip, Wai Cheung; Kwan, Y. K.; Kwan, P. Y. K.) Local median estimation of variance function. (English summary) **2004j:62079**
Yoshida, Kiyotaka (*with* Imai, Hideyuki; Sato, Yoshiharu) New criteria for tests of dimensionality under elliptical populations. (English summary) **2004b:62147**
Yoshimoto, Atsushi *see* **Yanagihara, Hirokazu**
Yu, Ke Ming (*with* Jones, Michael C.) Likelihood-based local linear estimation of the conditional variance function. (English summary)
Zaino, Nicholas *see* **Rao, Poduri S. R. S., (2004k:62018)**
Zarkos, Spyros G. *see* **Cribari-Neto, Francisco**
Zeger, Scott L. *see* **Diggle, Peter J. et al.**
Zhang, Tonglin (*with* Woodroofe, Michael) Credible and confidence sets for the ratio of variance components in the balanced one-way model. (English summary) **2004d:62117**
Zhang, Wei Guo² (*with* Wang, Li Yan; Chen, Wei) Parameter estimation of generalizing linear model under restriction condition. (Chinese. English and Chinese summaries)
Zhu, Hong-Tu (*with* Lee, Sik-Yum) Local influence for generalized linear mixed models. (English and French summaries)
Zmyślony, Roman (*with* Zontek, Stefan) Robust M-estimator of parameters in variance components model. (English summary) **2004f:62083**
— *see also* **Fonseca, Miguel et al., 2004f:62042**
Zontek, Stefan *see* **Zmyślony, Roman, 2004f:62083** *and* **Neumann, Konrad, 2004j:62042**

Items listed otherwise than by author

Aalborg ★ Spatial statistics and computational methods. **2004f:62012**
Lecture Notes in Statistics ★ Spatial statistics and computational methods. **2004f:62012**
Spatial statistics and computational methods ★ Spatial statistics and computational methods. **2004f:62012**

62J12 Generalized linear models

Arnold, Bernhard F. (*with* Stahlecker, Peter) Relative squared error prediction in the generalized linear regression model. (English summary) **2004a:62136**
Barroso, Lúcia P. *see* **Cordeiro, Gauss Moutinho et al.**
Bartolucci, Alfred A. *see* **Singh, Karan P. et al., 2004h:62131**
(Bishop, Christopher M.) *see* **Chipman, Hugh A. et al., (2004g:62009)**
Biswas, Atanu (*with* Das, Kalyan) A semiparametric Bayesian analysis of the salamander mating experiment. (English summary)
Botter, Denise A. *see* **Cordeiro, Gauss Moutinho et al.**
Brent, David *see* **Chen, Tuhao J. et al., 2004i:62133**
Cantoni, E. Robust inference based on quasi-likelihoods for generalized linear models and longitudinal data. (English summary) **2004e:62131**
Cénac, Peggy Almost sure properties of weighted vectorial martingales transforms with applications to prediction for linear regression models. (English summary) **2004m:62162**
Chaganty, N. Rao Analysis of growth curves with patterned correlation matrices using quasi-least squares. (English summary) **2004h:62130**
Chambers, Raymond L. *see* **Lin, Yan-Xia et al.**
Chan, Jennifer S. K. *see* **Choy, S. T. Boris et al., (2004g:62009)**
Chan, Kung Sik (*with* Munoz-Hernandez, B.) A generalized linear model for repeated ordered categorical response data. (English summary) **2004a:62137**
Chen, Ming-Hui (*with* Ibrahim, Joseph G.) Conjugate priors for generalized linear models. (English summary) **2004d:62253**
Chen, Tuhao J. (*with* Hoppe, Fred M.; Iyengar, Satish; Brent, David) A hybrid logistic model for case-control studies. (English summary) **2004i:62133**
Chen, Wei *see* **Zhang, Wei Guo² et al.**
Cheng, K. F. (*with* Hsueh, Huey-Miin) Estimation of a logistic regression model with mismeasured observations. (English summary) **2004b:62171**
Chipman, Hugh A. (*with* George, Edward I.; McCulloch, Robert E.) Bayesian treed generalized linear models. (English summary) (*see* **2004g:62009**)
Choy, S. T. Boris (*with* Chan, Jennifer S. K.; Yam, Carrie H. K.) Robust analysis and salamander data, generalized linear model with random effects. (English summary) (*see* **2004g:62009**)
Cordeiro, Gauss Moutinho (*with* Botter, Denise A.; Barroso, Lúcia P.; Ferrari, Silvia L. de Paula) Three corrected score tests for generalized linear models with dispersion covariates. (English summary)
— Second-order covariance matrix of maximum likelihood estimates in generalized linear models. (English summary) **2004m:62163**
Corrente, José Eduardo *see* **Viola, Denise Nunes, 2004g:62131**
Cullis, Brian *see* **Gilmour, Arthur et al.**
Das, Kalyan *see* **Biswas, Atanu**
de Falguerolles, Antoine (*with* van der Heijden, Peter G. M.) Reduced rank quasi-symmetry and quasi-skew symmetry: a generalized bi-linear model approach. (English and French summaries)
Ferrari, Silvia L. de Paula *see* **Cordeiro, Gauss Moutinho et al.**
García Ben, Marta (*with* Yohai, Victor J.) Quantile-quantile plot for deviance residuals in the generalized linear model. (English summary)
Geng, Zhi *see* **Guo, Jianhua et al., 2004c:62154**
George, Edward I. *see* **Chipman, Hugh A. et al., (2004g:62009)**
Gilmour, Arthur (*with* Cullis, Brian; Welham, Sue; Gogel, Beverley; Thompson, Robin) An efficient computing strategy for prediction in mixed linear models. (English summary)
Gogel, Beverley *see* **Gilmour, Arthur et al.**
Goto, Masashi *see* **Kawai, Norisuke**
Guo, Jianhua (*with* Geng, Zhi; Shi, Ning-Zhong) Consecutive collapsibility of logistic regression coefficients over an ordinal background. (English summary) **2004c:62154**
Hansen, Mark H. (*with* Yu, Bin¹) Minimum description length model selection criteria for generalized linear models. (English summary) (*see* **2004d:62008**)
van der Heijden, Peter G. M. *see* **de Falguerolles, Antoine**
Hoppe, Fred M. *see* **Chen, Tuhao J. et al., 2004i:62133**
Hsueh, Huey-Miin *see* **Cheng, K. F., 2004b:62171**
Huang, Jianhua Z. (*with* Stone, Charles J.) Extended linear modeling with splines. (English summary) (*see* **2004d:62006**)
Ibarrola Muñoz, María del Pilar (*with* Pérez-Palomares, A.) Linear sufficiency and linear admissibility in a continuous time Gauss-Markov model. (English summary) **2004i:62134**
Ibrahim, Joseph G. *see* **Chen, Ming-Hui, 2004d:62253**
Iyengar, Satish *see* **Chen, Tuhao J. et al., 2004i:62133**
Kawai, Norisuke (*with* Goto, Masashi) Measures of variation explained by binary regression. (English summary)
Kim, Donguk (*with* Kim, Jaejik) Small sample characteristics of generalized estimating equations for categorical repeated measurements. (Korean. English and Korean summaries)
Kim, Jaejik *see* **Kim, Donguk**
Lee, Sik-Yum *see* **Zhu, Hong-Tu**
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62J15 Paired and multiple comparisons

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62J20 Diagnostics

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Wolfson, David B. *see* **Zhou, Xiaojie et al.**, **2004i:62143**
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Errata:
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Errata: (*cont'd.*)
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62K10 Block designs

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Zhang, Ying Shan *see* **Pang, Shan Qi, 2004c:62159**

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62K15 Factorial designs

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Liu, Min-Qian *see* **Fang, Kai-Tai et al., 2004b:62180**; **2004b:62181**; **2004h:62144** *and* **2004m:62168**
Liu, San Yang *see* **Pang, Shan Qi et al., 2004f:62151**
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Mee, Robert W. *see* **Block, Robert M.**
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62K20 Response surface designs

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62K25 Robust parameter designs

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62K99 None of the above, but in this section

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62Lxx Sequential methods

62L05 Sequential design

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62L10 Sequential analysis

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Liu, Wei^4 A confidence interval that is consistent and more informative than a sequential equivalence test for a normal mean. (English summary) **2004f:62082**
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62L12 Sequential estimation

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— *see also* **Isogai, Eiichi et al., 2004f:62158**
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Chang, Xiao-Wen (*with* Paige, Christopher C.) An orthogonal transformation algorithm for GPS positioning. (English summary) **2004f:62157**
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Chaturvedi, Ajit (*with* Tomer, Sanjeev K.) Three-stage and "accelerated" sequential procedures for the mean of a normal population with known coefficient of variation. (English summary) **2004c:62169**
Cho, Hokwon A. Inverse-type sampling procedure for estimating the number of multinomial classes. (English summary) **2004j:62159**
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De, Moloy (*with* Sengupta, Samindranath) Bernoulli sequential estimation of the size of a finite population. (English summary) **2004g:62147**
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— *see also* **Gal'chuk, L. I., 2004d:62280**
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62L15 Optimal stopping [see also 60G40, 91A60]

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— *see also* **Yoshida, Yuji et al.**
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Saito, Tsuyoshi Optimal stopping problem with reservation where the reserving cost for the recalled offer returns. (English summary)
Sakaguchi, Minoru Multi-round card game with arbitration and random amount of bet. (English summary) **2004c:62170**
— Non-zero-sum best-choice games where two stops are required. (English summary) **2004d:62284**
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62L20 Stochastic approximation

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Chen, Han-Fu Stochastic approximation, with applications. **2004c:62171**
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Kontoyiannis, Ioannis *see* **Huang, Jianyi et al., 2004e:62146**
Landsman, Zinoviy M. (*with* Makov, Udi E.) Sequential quasi credibility for scale dispersion models. (English summary) **2004b:62187**
Lynch, O'Neil *see* **Rodkina, A. E., 2004j:62162**
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Meyn, Sean P. *see* **Huang, Jianyi et al., 2004e:62146**
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Borkar, Vivek S. A sensitivity formula for risk-sensitive cost and the actor-critic algorithm. (English summary) **2004f:90154**
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— Noisy observation based stabilization and optimization for unknown systems. (English summary) **2004h:93191**
— Almost sure convergence of iterative learning control for stochastic systems. (English summary) **2004f:93142**
— *see also* **Yin, Gang George, 2004h:93194** *and* **Fang, Hai-Tao, 2004m:94024**
Colosimo, Bianca M. *see* **del Castillo, Enrique et al.**
Fang, Hai-Tao (*with* Chen, Han-Fu) Blind channel identification based on noisy observation by stochastic approximation method. (English summary) **2004m:94024**
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Greblicki, Wlodzimierz Stochastic approximation in nonparametric identification of Hammerstein systems. (English summary) **2004c:93121**
Higueras Sanz, Immaculada (*with* Moler, J. A.; Plo, F.; San Miguel Marco, Miguel) An urn model with non-deterministic total replacement. (English summary) **2004m:60062**
Kats, I. Ya. (*with* Martynyuk, A. A.) ★ Stability and stabilization of nonlinear systems with random structure. **2004b:34004**
Konda, Vijay R. (*with* Tsitsiklis, John N.) Linear stochastic approximation driven by slowly varying Markov chains. (English summary) **2004h:93192**
Koval', Valerii A. On the rate of convergence of stochastic approximation procedures under various dependence conditions. (Ukrainian. Ukrainian summary) **2004d:60011**
Kushner, Harold J. (*with* Yin, Gang George) ★ Stochastic approximation and recursive algorithms and applications. **2004e:62005**
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— *see also* **Kushner, Harold J., 2004e:62005**
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Zhao, Yonggan *see* **MacLean, Leonard C. et al., 2004k:91114**
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62L99 None of the above, but in this section

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Konev, Viktor (*with* Pergamenshchikov, Sergei) Sequential estimation of the parameters in a trigonometric regression model with the Gaussian coloured noise. (English summary) **2004j:62160**
Pergamenshchikov, Sergei *see* **Konev, Viktor, 2004j:62160**
Tomer, Sanjeev K. *see* **Chaturvedi, Ajit, 2004c:62169**

62Mxx Inference from stochastic processes

62M02 Markov processes: hypothesis testing

Chan, Kung Sik (*with* Tong, Howell) Testing for multimodality with dependent data. (English summary) **2004m:62175**
Le Gland, François (*with* Wang, Bo[1]) Asymptotic normality in partially observed diffusions with small noise: application to FDI. (English summary) **2004a:62146**
Tong, Howell *see* **Chan, Kung Sik, 2004m:62175**
Wang, Bo[1] *see* **Le Gland, François, 2004a:62146**

Items with secondary classifications in 62M02

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Chistyakov, V. P. *see* **Tikhomirova, M. I., 2004h:60113**
Hashorva, Enkelejd *see* **Bischoff, Wolfgang et al., 2004m:60074**
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Nagaev, A. V. Limit theorems and testing hypotheses on Markov chains. (Russian. Russian summary) **2004m:60153**
Perera, Gonzalo (*with* Wschebor, Mario) Inference on the variance and smoothing of the paths of diffusions. (English and French summaries) **2004d:62176**
Tikhomirova, M. I. (*with* Chistyakov, V. P.) On two chi-square-type statistics constructed from the frequencies of tuples of states of a multiple Markov chain. (Russian. Russian summary) **2004h:60113**
Wschebor, Mario *see* **Perera, Gonzalo, 2004d:62176**

62M05 Markov processes: estimation

Aït-Sahalia, Yacine Maximum likelihood estimation of discretely sampled diffusions: a closed-form approximation approach. (English summary) **2004c:62172**

Al-Eideh, Basel M. (*with* Al-Refai, Ahmad S. A.; Sbeiti, Wafaa M.) Modelling the CPI using a lognormal diffusion process and implications on forecasting inflation. (English summary)
Al-Refai, Ahmad S. A. *see* **Al-Eideh, Basel M. et al.**
Andrieu, Colette (*with* Bui Trong Lieu) On Markov networks. (English summary)
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62M07 Non-Markovian processes: hypothesis testing

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"Nonparametric estimation of renewal processes from count data" Correction: "Nonparametric estimation of renewal processes from count data" [Canad. J. Statist. **31** (2003), no. 2, 191–223] by Y. Guédon and C. Cocozza-Thivent.

62M10 Time series, auto-correlation, regression, etc. [see also 91B84]

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Allal, J. (*with* Kaaouachi, A.; Melhaoui, S.) On adaptive estimation based on ranks in ARMA processes. (English summary) **2004k:62190**
— (*with* Faizi, M.; Kaaouachi, A.) Adaptive R-estimation in autoregressions. (English summary) **2004m:62179**
Allende, Héctor (*with* Lacourly, Nancy; Torres, Soledad) Robust Portmanteau TRA tests and their limit distribution. (English summary)
Alonso, Andrés M. (*with* Peña, Daniel; Romo, Juan J.) Missing values resampling for time series. (*see* **2004a:62009**)
— (*with* Peña, Daniel; Romo, Juan J.) Resampling time series using missing values techniques. (English summary) **2004m:62180**
— (*with* Peña, Daniel; Romo, Juan J.) Introducing model uncertainty in time series bootstrap. (English summary) **2004j:62168**
Alpargu, Gülhan (*with* Dutilleul, Pierre) Efficiency and validity analyses of two-stage estimation procedures and derived testing procedures in quantitative linear models with AR(1) errors. (English summary)
Altissimo, Filippo (*with* Corradi, Valentina) Strong rules for detecting the number of breaks in a time series. (English summary) **2004h:62152**
Alvarez, Javier (*with* Arellano, Manuel) The time series and cross-section asymptotics of dynamic panel data estimators. (English summary) **2004f:62163**
Amaral-Turkman, M. Antonia *see* **Antunes, M. et al.**
An, Hong-zhi (*with* Li, Zhi-guo) Recursive least squares estimator with multiple exponential windows in vector autoregression. (English summary) **2004h:62153**
— *see also* **Ip, Wai Cheung et al., 2004h:62158**
Anderson, Clive W. *see* **Scotto, M. G. et al., 2004h:62166**
Anderson, Kirk *see* **Terpstra, Jeffrey T. et al., 2004b:62204**
Anderson, T. W. (*with* Lockhart, R. A.; Stephens, M. A.) An omnibus test for the time series model AR(1). (English summary)
Andrews, Donald W. K. The block-block bootstrap: improved asymptotic refinements. (English summary)
Antunes, M. (*with* Amaral-Turkman, M. Antonia; Turkman, K. F.) A Bayesian approach to event prediction. (English summary)
Arellano, Manuel *see* **Alvarez, Javier, 2004f:62163**
Arteche, Josu Gaussian semiparametric estimation in long memory in stochastic volatility and signal plus noise models. (English summary) **2004m:62181**
Arvanitis, Stelios (*with* Demos, Antonis) Time dependence and moments of a family of time-varying parameter GARCH in mean models. (English summary) **2004k:62191**
Baek, Jeong-Seon (*with* Sohn, Keon Tae; Hwang, Sun Young) Statistical analysis of transfer function models with conditional heteroscedasticity. (English summary) **2004g:62152**
Baek, Jong Il (*with* Kim, Tae-Sung[1]; Liang, Han Ying) On the convergence of moving average processes under dependent conditions. (English summary) **2004f:62164**
Bai, Xuezheng (*with* Russell, Jeffrey R.; Tiao, George C.) Kurtosis of GARCH and stochastic volatility models with non-normal innovations. (English summary) **2004a:62150**
Bakouch, H. S. *see* **Teamah, A. A. M.**
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Bams, Dennis (*with* Schotman, Peter C.) Direct estimation of the risk neutral factor dynamics of Gaussian term structure models. (English summary)
Baran, Robert H. *see* **Jernigan, Robert W., 2004e:62155**
Barndorff-Nielsen, Ole E. Modelling by Lévy processes. (*see* **2004c:62007**)
Bauer, Marcus *see* **Gather, Ursula et al., 2004j:62176**
Bauwens, Luc (*with* Veredas, David) The stochastic conditional duration model: a latent variable model for the analysis of financial durations. (English summary)
Benjamin, Michael A. (*with* Rigby, Robert A.; Stasinopoulos, D. Mikis) Generalized autoregressive moving average models. (English summary) **2004a:62151**
Berkes, István (*with* Horváth, Lajos; Kokoszka, P. S.) GARCH processes: structure and estimation. (English summary) **2004f:62165**
— (*with* Horváth, Lajos; Kokoszka, P. S.) Asymptotics for GARCH squared residual correlations. (English summary) **2004e:62149**
Berkoun, Youcef (*with* Fellag, Hocine; Zieliński, Ryszard) Robust testing serial correlation in AR(1) processes in the presence of a single additive outlier. (English summary) **2004g:62153**
Bertail, Patrice (*with* Haefke, Christian; Politis, Dimitris N.; White, Halbert) Subsampling the distribution of diverging statistics with applications to finance. (English summary)
Bhansali, R. J. (*with* Kokoszka, P. S.) Prediction of long-memory time series: an overview. (English summary) **2004k:62192**
Bibi, Abdelouahab (*with* Francq, Christian) Consistent and asymptotically normal estimators for cyclically time-dependent linear models. (English summary) **2004g:62154**
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— (*with* Oyet, Alwell J.) Estimation of some bilinear time series models with time varying coefficients. (English summary) **2004k:62193**
Bidarkota, Prasad V. (*with* McCulloch, J. Huston) Testing for persistence in stock returns with GARCH-stable shocks. (English summary)
Bierens, Herman J. Unit roots. (*see* **2004j:62006**)
Bilodeau, Jean-François *see* **Khalaf, Lynda et al., 2004g:62161**
Biondini, Riccardo (*with* Lin, Yan-Xia; McCrae, Michael) On the determination of an appropriate hedging strategy. (English summary)
Blake, Andrew P. (*with* Kapetanios, George) Pure significance tests of the unit root hypothesis against nonlinear alternatives. (English summary) **2004d:62289**
Boente, Graciela (*with* Fraiman, Ricardo) Ergodicity, geometric ergodicity and mixing conditions for nonparametric ARMA processes. (English summary) **2004d:62290**
Bogdanov, A. I. On a mathematical model for forecasting cyclic processes. (Russian. English and Russian summaries)
Bognár, Tomáš (*with* Komorník, Jozef; Komorníková, Magda) Regime-switching models of time series with cubic spline transition function in geodetic application. (English summary)
Boldin, M. V. On sequential residual empirical processes in heteroscedastic time series. (English summary) **2004a:62152**
Bondon, Pascal *see* **Palma, Wilfredo, 2004j:62185**
Bortot, Paola (*with* Coles, Stuart) Extremes of Markov chains with tail switching potential. (English summary)
Bos, Charles S. *see* **Koopman, Siem Jan**
Bosq, Denis Estimation of the autocorrelation operator and prediction for infinite-dimensional autoregressive processes. (English summary) **2004b:62191**
Brammer, Mick *see* **Breakspear, Michael et al.**
Breakspear, Michael (*with* Brammer, Mick; Robinson, Peter A.) Construction of multivariate surrogate sets from nonlinear data using the wavelet transform. (English summary)
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Burridge, Peter (*with* Taylor, A. M. Robert) On the properties of regression-based tests for seasonal unit roots in the presence of higher-order serial correlation. (English summary) **2004c:62177**
Busetti, Fabio (*with* Taylor, A. M. Robert) Variance shifts, structural breaks, and stationarity tests. (English summary) **2004g:62155**
— (*with* Taylor, A. M. Robert) Testing against stochastic trend and seasonality in the presence of unattended breaks and unit roots. (English summary) **2004h:62154**
Caccetta, Peter *see* **Kiiveri, Harri T. et al., 2004g:62162**
Cai, Yuzhi Convergence theory of a numerical method for solving the Chapman-Kolmogorov equation. (English summary) **2004d:62291**
— (*with* Davies, Neville) Monitoring the parameter changes in general ARIMA time series models. (English summary)
Cai, Zongwu A two-stage approach to additive time series models. (English summary) **2004j:62169**
— Local quasi-likelihood approach to varying-coefficient discrete-valued time series models. (English summary) **2004k:62194**

— Nonparametric estimation equations for time series data. (English summary) **2004g:62156**
— (*with* Ould-Saïd, Elias) Local M-estimator for nonparametric time series. (English summary) **2004k:62195**
Callegari, Francesca (*with* Cappuccio, Nunzio; Lubian, Diego) Asymptotic inference in time series regressions with a unit root and infinite variance errors. (English summary) **2004f:62166**
Calzolari, Giorgio *see* **Fiorentini, Gabriele et al., 2004h:62155**
Campbell, Edward P. Bayesian selection of threshold autoregressive models. (English summary)
Campbell, Norm *see* **Kiiveri, Harri T. et al., 2004g:62162**
Cao, Yinhe *see* **Gao, Jianbo et al.**
Capobianco, Enrico Multi-resolution properties of semi-parametric volatility models. (English summary) (*see* **2004d:62006**)
Cappuccio, Nunzio *see* **Callegari, Francesca et al., 2004f:62166**
Carnero, M. Angeles (*with* Peña, Daniel; Ruiz, Esther) Outliers and conditional autoregressive heteroscedasticity in time series. (English summary)
Caroni, C. (*with* Karioti, V.) Detecting an innovative outlier in a set of time series. (English summary)
Carroll, Raymond J. *see* **Xiao, Zhijie et al., 2004k:62214**
Carstensen, Kai (*with* Paolella, Marc S.) On median unbiased inference for first order autoregressive models. (English summary) (*see* **2004k:62015**)
Cavaliere, Giuseppe Asymptotics for unit root tests under Markov regime-switching. (English summary) **2004d:62292**
Cédras, Lyne *see* **Pham Dinh Tuan et al., 2004h:62163**
Cha, Kyungyup (*with* Kim, Sahmyeong; Lee, Sung-Duck) Robust estimation using quasi-score estimating functions for nonlinear time series models. (English summary) **2004m:62183**
Chan, Kung Sik (*with* Tong, Howell; Stenseth, Nils Chr.) Testing for common structures in a panel of threshold models. (English and French summaries)
Chan, N. H. *see* **Brockwell, Anthony E. et al.**
Chang, Tee-Chin *see* **Wong, H. B. et al.**
Chang, Yoosoon (*with* Park, Joon Y.) Index models with integrated time series. (English summary) **2004c:62178**
— (*with* Park, Joon Y.) A sieve bootstrap for the test of a unit root. (English summary) **2004e:62150**
— Bootstrap unit root tests in panels with cross-sectional dependency. (English summary) **2004m:62184**
— *see also* **Phillips, Peter C. B. et al., 2004j:62186**
Charif, Husni A. *see* **Ismail, Mohamed A.**
Chatfield, Chris *see* **Pitt, Michael K. et al., 2004h:62164**
Chen, Chunhang Stable non-Gaussian time series. **2004a:62153**
Chen, Ge Mai *see* **Chen, Min[4], 2004c:62179**
Chen, Guanrong *see* **Lai, Dejian, 2004i:62162**
Chen, Han-Fu On stability and trajectory boundedness in mean-square sense for ARMA processes. (English summary) **2004i:62155**
Chen, Min[4] (*with* Chen, Ge Mai) A Kolmogorov-Smirov test of conditional heteroscedasticity for threshold autoregressive models. (Chinese. English and Chinese summaries) **2004c:62179**
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Chen, Rong[1] (*with* Schulz, Rainer; Stephan, Sabine) Multiplicative SARIMA models. (*see* **2004k:62008**)
Chen, Song Xi (*with* Härdle, Wolfgang; Li, Ming[11]) An empirical likelihood goodness-of-fit test for time series. (English summary) **2004g:62157**
Chen, Willa W. (*with* Deo, Rohit S.) A generalized Portmanteau goodness-of-fit test for time series models. (English summary) **2004m:62185**
Chen, Yong Hong[2] (*with* Rangarajan, Govindan; Feng, Jian Feng[1]; Ding, Mingzhou) Analyzing multiple nonlinear time series with extended Granger causality. (English summary)
Chinipardaz, Rahim A CUSUM approach to discrimination of Gaussian time series models. (English summary)
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Cho, Sinsup *see* **Son, Young Sook et al.**
Choi, ByoungSeon Model specification of a noncausal 3-D AR process using a causal 3-D AR model on the nonsymmetric half-space. (English summary) **2004c:62180**
Chou, Rouh-jane *see* **Hu, Yu-pin, 2004i:62160**
Choudhuri, Nidhan (*with* Ghosal, Subhashis; Roy, Anindya) Contiguity of the Whittle measure for a Gaussian time series. (English summary) **2004m:62186**
Clémençon, Stéphan (*with* Slim, Skander) Statistical analysis of financial time series under the assumption of local stationarity. (English summary)
Clerc, Maureen (*with* Mallat, Stéphane G.) Estimating deformations of stationary processes. (English summary) **2004k:62196**
Cline, Daren B. H. (*with* Pu, Huo Hui Min) Stability of nonlinear time series: what does noise have to do with it? (English summary) **2004g:62158**
Coles, Stuart *see* **Bortot, Paola**
Cook, Steven Modified unit root tests and momentum threshold autoregressive processes. (English summary) **2004e:62151**
— Finite-sample properties of modified unit root tests in the presence structural change. (English summary)
— (*with* Manning, Neil) Lag optimisation and finite-sample size distortion of unit root tests. (English summary)
Corradi, Valentina *see* **Altissimo, Filippo, 2004h:62152**
Corzo S., Jimmy *see* **Gómez Torres, Emilse et al.**
Cox, Trevor F. *see* **Chinipardaz, Rahim**
Cristán, Alberto Contreras (*with* González-Barrios, José María) A statistical method for the determination of the appropriate order in a general class of time series models. (English summary) **2004d:62293**
Da, Qing Li *see* **Zhang, Qin[2]**
Dagum, Estela Bee (*with* Luati, Alessandra) A study of the asymmetric and symmetric weights of kernel smoothers and their spectral properties. (English summary)
Dahlén, Anders (*with* Scherrer, Wolfgang) The relation of the CCA subspace method to a balanced reduction of an autoregressive model. (English summary) **2004j:62170**
Davidson, James Moment and memory properties of linear conditional heteroscedasticity models, and a new model. (English summary) **2004m:62187**
Davies, Neville *see* **Cai, Yuzhi**
Davis, Richard Alan (*with* Dunsmuir, William T. M.; Streett, Sarah B.) Observation-driven models for Poisson counts. (English summary) **2004j:62171**
Dégerine, Serge (*with* Lambert-Lacroix, Sophie) Characterization of the partial autocorrelation function of nonstationary time series. (English summary) **2004i:62156**
Dellaportas, Petros *see* **Vrontos, I. D. et al.**
Demos, Antonis *see* **Arvanitis, Stelios, 2004k:62191**
Deo, Rohit S. *see* **Chen, Willa W., 2004m:62185**
Dickey, David A. *see* **Lee, Tae Yoon**
Didelez, Vanessa *see* **Fried, Roland, 2004d:62295**
van Dijk, Dick (*with* Strikholm, Birgit; Teräsvirta, Timo) The effects of institutional and technological change and business cycle fluctuations on seasonal patterns in quarterly industrial production series. (English summary)
van Dijk, Herman K. *see* **Paap, Richard**
Ding, Mingzhou *see* **Chen, Yong Hong[2] et al.**
Dittmann, Ingolf Error correction models for fractionally cointegrated time series. (English summary)
Dolado, Juan J. (*with* Gonzalo, Jesús; Marmol, Francesc) Cointegration. (*see* **2004j:62006**)
Dong, Xian Feng *see* **Tian, Ping et al., 2004d:62322**
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Đorić, Dragan M-estimates of SETAR model parameters. (English summary) **2004j:62172**
Drees, Holger Tail empirical processes under mixing conditions. (English summary) **2004a:62154**
— Extreme quantile estimation for dependent data, with applications to finance. (English summary) **2004e:62152**
Du, Xiu Hua *see* **Zheng, Bin Xiang et al.**
Ducharme, Gilles R. (*with* Lafaye de Micheaux, Pierre) Goodness-of-fit tests of normality for the innovations in ARMA models. (English summary) **2004m:62188**
Duchesne, Pierre (*with* Lalancette, Simon) On testing for multivariate ARCH effects in vector time series models. (English and French summaries)
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— (*with* Roy, Roch) On consistent testing for serial correlation of unknown form in vector time series models. (English summary) **2004k:62199**
Dunsmuir, William T. M. *see* **Davis, Richard Alan et al., 2004j:62171**
Dutilleul, Pierre *see* **Alpargu, Gülhan**
Einbeck, Jochen (*with* Kauermann, Göran) Online monitoring with local smoothing methods and adaptive ridging. (English summary)
Elliott, Graham *see* **Müller, Ulrich K., 2004h:62160**
Elsner, James B. *see* **Niu, Xu-Feng et al., 2004d:62312**
Erdemir, Cenap *see* **Kadılar, Cem, 2004d:62305**
Evans, A. K. *see* **London, M. D. et al., 2004h:62159**
Evans, Fiona *see* **Kiiveri, Harri T. et al., 2004g:62162**
Fabre, Jean-Pierre (*with* Larramendy, Irène) About estimation of ARIMA process with strong mixing MA part. (English summary) **2004a:62155**
Faizi, M. *see* **Allal, J. et al., 2004m:62179**
Faliva, Mario (*with* Zoia, Maria Grazia) Matrix polynomials and their inversion: the algebraic framework of unit-root econometrics representation theorems. (English and Italian summaries) **2004e:62153**
— (*with* Zoia, Maria Grazia) A new proof of the representation theorem for $I(2)$ processes. (English summary) **2004i:62157**
Fan, Jianqing (*with* Zhang, Wenyang) Generalised likelihood ratio tests for spectral density. (English summary) **2004m:62189**
Fan, Yanqin (*with* Whitcher, Brandon) A wavelet solution to the spurious regression of fractionally differenced processes. (English summary) **2004j:62173**
Fang, Ji Qian *see* **Ni, Tao Yang et al.**
Farag, E. A. *see* **Ghazal, M. A., 2004b:62193**
Fellag, Hocine *see* **Berkoun, Youcef et al., 2004g:62153** *and* **Ibazizen, Mohamed**
Feng, Jian Feng[1] *see* **Chen, Yong Hong[2] et al.**
Feng, Yuanhua Simultaneously modeling conditional heteroskedasticity and scale change. (English summary) **2004m:62190**
Ferreira, Helena *see* **Scotto, M. G., 2004j:62188**
Fiebig, Denzil G. Seemingly unrelated regression. (*see* **2004j:62006**)
Figwer, Jarosław Multisine transformation—properties and applications. (English summary)
Fillol, Jérôme (*with* Tripier, Fabien) The scaling function-based estimator of long memory in the presence of a short-term component. (English summary)
Findley, David F. (*with* Wei, Ching-Zong) AIC, overfitting principles, and the boundedness of moments of inverse matrices for vector autoregressions and related models. (English summary) **2004d:62294**
— (*with* Pötscher, Benedikt M.; Wei, Ching-Zong) Modeling of time series arrays by multistep prediction or likelihood methods. (English summary) **2004j:62174**
Fiorentini, Gabriele (*with* Sentana, Enrique; Calzolari, Giorgio) Maximum likelihood estimation and inference in multivariate conditionally heteroscedastic dynamic regression models with Student t innovations. (English summary) **2004h:62155**
Fokianos, Konstantinos (*with* Kedem, Benjamin) Partial likelihood inference for time series following generalized linear models. (English summary)
Fomin, Vladimir N. *see* **Gel, Yulia R., 2004j:62177**
Fong, Pak Wing (*with* Li, Wai-Keung) On time series with randomized unit root and randomized seasonal unit root. (English summary) **2004f:62167**

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Foschi, Paolo (*with* Kontoghiorghes, Erricos John) Estimating seemingly unrelated regression models with vector autoregressive disturbances. (English summary) **2004g:62159**

Fotopoulos, Stergios B. (*with* Ahn, Sung K.) Rank based Dickey-Fuller test statistics. (English summary) **2004i:62158**

Fraiman, Ricardo *see* **Boente, Graciela, 2004d:62290**

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Fuh, Cheng-Der (*with* Hu, Inchi; Lin, Shih-Kuei) Empirical performance and asset pricing in hidden Markov models. (English summary) **2004j:62175**

Furby, Suzanne *see* **Kiiveri, Harri T. et al., 2004g:62162**

Gan, F. F. *see* **Wong, H. B. et al.**

Gao, Jianbo (*with* Cao, Yinhe; Gu, Lingyun; Harris, John Gregory; Principe, J. C.) Detection of weak transitions in signal dynamics using recurrence time statistics. (English summary)

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García Ben, Marta (*with* Villar, Ana J.; Yohai, Víctor J.) Robust estimation in vector autoregressive models based on a robust scale. (English summary) **2004d:62296**

Gargallo Valero, Pilar (*with* Salvador Figueras, Manuel) Monitoring residual autocorrelations in dynamic linear models. (English summary)

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Gautier, Antony *see* **Francq, Christian**

Gel, Yulia R. (*with* Fomin, Vladimir N.) Identification of an unstable ARMA equation. (English summary) **2004j:62177**

Ghazal, M. A. (*with* Farag, E. A.) Some properties of the continuous expanded finite Fourier transform. (English and Italian summaries) **2004b:62193**

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Ghosal, Subhashis *see* **Choudhuri, Nidhan et al., 2004m:62186**

Ghosh, Malay (*with* Heo, Jungeun) Default Bayesian priors for regression models with first-order autoregressive residuals. (English summary) **2004d:62297**

Ghysels, Eric (*with* Osborn, Denise R.; Rodrigues, Paulo M. M.) Seasonal nonstationarity and near-nonstationarity. (*see* **2004j:62006**)

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González, Pilar *see* **Moral, Paz, (2004k:62008)**

González-Barrios, José María *see* **Cristán, Alberto Contreras, 2004d:62293**

González Rodelas, Pedro *see* **Valderrama Bonnet, Mariano J. et al.**

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Göttlein, Axel *see* **Pruscha, Helmut**

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Grossi, Luigi (*with* Riani, Marco) Robust time series analysis through the forward search. (*see* **2004a:62009**)

Gu, Lingyun *see* **Gao, Jianbo et al.**

Guan, Yong Yuan *see* **Ni, Tao Yang et al.**

Guerrero, Víctor M. (*with* Peña, Daniel) Combining multiple time series predictors: a useful inferential procedure. (English summary) **2004e:62154**

Gulati, Chandra M. *see* **Wang, Qiying et al., 2004a:62168**

Guo, Wensheng Dynamic state-space models. (English summary) **2004b:62194**

Gürsoy, Kemal (*with* Katehakis, Michael N.) On maximizing the availability of two component series systems in discrete time. (English summary) **2004j:62179**

Haddad, John N. On the closed form of the covariance matrix and its inverse of the causal ARMA process. (English summary)

Hadri, Kaddour *see* **Doornik, Jurgen A. et al., 2004k:62197** *and* **Abadir, Karim M. et al., 2004k:62198**

Haefke, Christian *see* **Bertail, Patrice et al.**

Hall, Peter G. (*with* Yao, Qiwei) Data tilting for time series. (English summary) **2004d:62298**

Hamori, Shigeyuki *see* **Tokihisa, Akira, 2004j:62190**

Hannan, E. J. *see* **Kavalieris, L. et al., 2004b:62200**

Hansen, Peter Reinhard Structural changes in the cointegrated vector autoregressive model. (English summary) **2004d:62299**

Härdle, Wolfgang *see* **Chen, Song Xi et al., 2004g:62157**

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Harris, John Gregory *see* **Gao, Jianbo et al.**

Harvey, David I. (*with* Mills, Terence C.) A note on Busetti-Harvey tests for stationarity in series with structural breaks. (English summary) **2004c:62181**

Hasse-Becker, Petra *see* **Ligges, Uwe et al., (2004a:62009)**

Hassler, Uwe Nonsense regressions due to neglected time-varying means. (English summary) **2004d:62300**

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Heo, Jungeun *see* **Ghosh, Malay, 2004d:62297**

Hidalgo, Javier An alternative bootstrap to moving blocks for time series regression models. (English summary) **2004i:62159**

Higuchi, Tomoyuki *see* **Kitagawa, Genshiro et al., (2004a:62009)**

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Horváth, Lajos (*with* Kokoszka, P. S.) A bootstrap approximation to a unit root test statistic for heavy-tailed observations. (English summary) **2004b:62196**

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Hsu, Yu-Yun (*with* Tse, Sze-Man; Wu, Berlin) A new approach of bivariate fuzzy time series analysis to the forecasting of a stock index. (English summary)

Hu, Inchi *see* **Fuh, Cheng-Der et al., 2004j:62175**

Hu, Yu-pin (*with* Chou, Rouh-jane) A dynamic factor model. (English summary) **2004i:62160**

Huang, Jianhua Z. (*with* Yang, Lijian) Identification of non-linear additive autoregressive models. (English summary)

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Huerta, Gabriel (*with* Jiang, Wenxin; Tanner, Martin A.) Time series modeling via hierarchical mixtures. (English summary) **2004j:62181**

Hughes, Anthony W. (*with* King, Maxwell L.; Kwek, Kian Teng) Selecting the order of an ARCH model. (English summary)

Hui, Yer Van *see* **Lu, Zu-di, 2004b:62202**

Hunt, R. L. (*with* Peiris, M. Shelton; Weber, N. C.) The bias of lag window estimators of the fractional difference parameter. (English summary) **2004a:62156**

Hwang, Sun Young (*with* Kim, Soon-Young; Lee, Sung-Duck) Nonlinear approach to modeling heteroscedasticity in transfer function analysis. (Korean. English and Korean summaries)

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Ibazizen, Mohamed (*with* Fellag, Hocine) Bayesian estimation of an AR(1) process with exponential white noise. (English summary)

Ie, O. N. Calculation of the rate of decrease of error probabilities for the Neyman-Pearson test for normal autoregression processes. (Russian. Russian summary) **2004a:62157**

Imhoff, Michael *see* **Fried, Roland et al., (2004a:62009)** *and* **Gather, Ursula et al.**

Ing, Ching-Kang (*with* Wei, Ching-Zong) On same-realization prediction in an infinite-order autoregressive process. (English summary) **2004b:62197**

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Ip, Wai Cheung (*with* Wong, Heung; Li, Yuan[2]; An, Hong-zhi) Testing and estimation of thresholds based on wavelets in heteroscedastic threshold autoregressive models. (English summary) **2004h:62158**

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Ispány, Márton (*with* Pap, Gyula[1]; van Zuijlen, Martien C. A.) Asymptotic behaviour of estimators of the parameters of nearly unstable INAR(1) models. (English summary) **2004k:62202**

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Ittig, Peter T. Comparison of efficient seasonal indexes. (English summary)
Iyer, Srikanth K. *see* **Nandi, Swagata[2] et al., 2004f:62171**
Jach, Agnieszka (*with* Kokoszka, P. S.) Subsampling unit root tests for heavy-tailed observations. (English summary)
Jansson, Michael Stationarity testing with covariates. (English summary) **2004k:62203**
Jasiak, Joann First-order autoregressive processes with heterogeneous persistence. (English summary) **2004d:62301**
— *see also* **Gouriéroux, Christian, (2004j:62006)**
Jayakumar, K. (*with* Mathew, Thomas[1]) Burr processes. (English summary) **2004d:62303**
— (*with* Mathew, Thomas[1]) Autoregressive Mittag-Leffler process. (English summary) **2004d:62302**
— Mittag-Leffler process. (English summary)
Jensen, Søren Tolver (*with* Rahbek, Anders) Asymptotic normality of the QMLE estimator of ARCH in the nonstationary case. (English summary) **2004j:62182**
Jernigan, Robert W. (*with* Baran, Robert H.) Testing lumpability in Markov chains. (English summary) **2004e:62155**
Jeske, Roland (*with* Song, Seuck Heun) Relative efficiency of OLSE and COTE for seasonal autoregressive disturbances. **2004d:62304**
Jiang, Wei[2] (*with* Tsui, Kwok-Leung) Some properties of the ARMA control chart. (English summary) **2004f:62169**
Jiang, Wenxin *see* **Huerta, Gabriel et al., 2004j:62181**
Jiang, Xing Guo (*with* Zong, Xu Ping) Explicit representation of the solution of a recursive prediction formula for the AR model. (Chinese. English and Chinese summaries)
Joe, Harry *see* **Zhu, Rong[2], 2004b:62205**
Johansen, Søren The asymptotic variance of the estimated roots in a cointegrated vector autoregressive model. (English summary) **2004i:62161**
Jones, James William (*with* Karampetakis, Nicholas P.; Pugh, A. C.) Solution of discrete ARMA-representations via MAPLE. (English summary) **2004b:62199**
de Jong, Robert M. Addendum to: "Asymptotics for nonlinear transformations of integrated time series" [Econometric Theory **15** (1999), no. 3, 269–298] by J. Y. Park and P. C. B. Phillips. (English summary) **2004m:62192**
Jörnsten, Rebecka (*with* Vardi, Yehuda; Zhang, Cun-Hui) A robust clustering method and visualization tool based on data depth. (English summary) (*see* **2004d:62007**)
Jose, K. K. *see* **Thomas, Alice, 2004d:62321**
Judd, Kevin *see* **Nakamura, Tomomichi et al.**
Juhl, Ted (*with* Xiao, Zhijie) Power functions and envelopes for unit root tests. (English summary) **2004a:62158**
Kaaouachi, A. *see* **Allal, J. et al., 2004k:62190** *and* **2004m:62179**
Kadılar, Cem (*with* Erdemir, Cenap) Comparison of performance among information criteria in VAR and seasonal VAR models. (English summary) **2004d:62305**
Kaiser, Regina (*with* Maravall, Agustín) Seasonal outliers in time series. (English summary)
Kakizawa, Yoshihide Edgeworth approximation in the AR(1) process with some possibly nonzero initial value. (English summary) **2004a:62159**
Kang, Weechang (*with* Shin, Dong Wan; Lee, Youngjo) Biases of the restricted maximum likelihood estimators for ARMA processes with polynomial time trend. (English summary) **2004e:62156**
Kanoh, Satoru Labor force survey and rotation sampling. (Japanese. English and Japanese summaries)
Kapetanios, George *see* **Blake, Andrew P., 2004d:62289**
Karagrigoriou, Alex (*with* Vonta, Filia) Asymptotically optimal AR spectral estimate for multistep prediction. (English summary) **2004k:62204**
Karampetakis, Nicholas P. *see* **Jones, James William et al., 2004b:62199**
Karanasos, M. (*with* Kim, J.) Moments of the ARMA-EGARCH model. (English summary) **2004d:62306**
Karioti, V. *see* **Caroni, C.**
Katehakis, Michael N. *see* **Gürsoy, Kemal, 2004j:62179**
Kauermann, Göran *see* **Einbeck, Jochen**
Kavalieris, L. (*with* Hannan, E. J.; Salau, M.) Generalized least squares estimation of ARMA models. (English summary) **2004b:62200**
Kedem, Benjamin *see* **Fokianos, Konstantinos**
Keller, Melanie *see* **Fried, Roland et al., (2004a:62009)**
Kezim, Boualem (*with* Abdelli, Zahia) A Bayesian analysis of a structural change in the parameters of a time series. (English summary)
Khalaf, Lynda (*with* Saphores, Jean-Daniel; Bilodeau, Jean-François) Simulation-based exact jump tests in models with conditional heteroskedasticity. (English summary) **2004g:62161**
Kie, John G. *see* **Brillinger, David R. et al.**
Kiiveri, Harri T. (*with* Caccetta, Peter; Campbell, Norm; Evans, Fiona; Furby, Suzanne; Wallace, Jeremy) Environmental monitoring using a time series of satellite images and other spatial data sets. **2004g:62162**
Kilminster, Devin *see* **Nakamura, Tomomichi et al.**
Kim, J. *see* **Karanasos, M., 2004d:62306**
Kim, Jae-Young Inference on segmented cointegration. (English summary) **2004f:62170**
Kim, Sahmyeong *see* **Cha, Kyungyup et al., 2004m:62183**
Kim, Seong W. *see* **Son, Young Sook et al.**
Kim, Soon-Young *see* **Hwang, Sun Young et al.**
Kim, Tae-Hwan (*with* Pfaffenzeller, Stephan; Rayner, Tony; Newbold, Paul) Testing for linear trend with application to relative primary commodity prices. (English summary)
— *see also* **Leybourne, Stephen et al., 2004j:62183**
Kim, Tae-Sung[1] *see* **Baek, Jong Il et al., 2004f:62164**
King, Maxwell L. Serial correlation. (*see* **2004j:62006**)
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Kitagawa, Genshiro (*with* Higuchi, Tomoyuki; Sato, Seisho) Computational methods for time series analysis. (English summary) (*see* **2004a:62009**)
Kleibergen, Frank *see* **Groen, Jan J. J., 2004g:62160**
Klein, André (*with* Spreij, Peter) Some results on Vandermonde matrices with an application to time series analysis. (English summary) **2004e:62157**
Knížek, Jiří *see* **Šindelář, Jan, 2004d:62318**
Knoth, Sven (*with* Schmid, Wolfgang P.) Control charts for time series: a review. (English summary)
Kokoszka, P. S. (*with* Wolf, Michael[3]) Subsampling the mean of heavy-tailed dependent observations. (English summary) **2004m:62193**
— *see also* **Horváth, Lajos et al., 2004b:62196**; **Berkes, István et al., 2004e:62149**; **2004f:62165**; **Bhansali, R. J., 2004k:62192**; **Giraitis, Liudas et al.** *and* **Jach, Agnieszka**
Komorník, Jozef *see* **Bognár, Tomáš et al.**
Komorníková, Magda *see* **Bognár, Tomáš et al.**
Kontoghiorghes, Erricos John *see* **Foschi, Paolo, 2004g:62159**
Koopman, Siem Jan (*with* Bos, Charles S.) State space models with a common stochastic variance. (English summary)
Koreisha, Sergio G. (*with* Pukkila, Tarmo) The specification of vector autoregressive moving average models. (English summary)
Kotlíková, Michala *see* **Vávra, František et al., (2004c:62006)**
Kumar, Kuldeep[1] (*with* Srivastava, Mukesh) On the specification of error structure in the linear regression model. (English summary)
Kumar, Pranesh *see* **Sutradhar, Brajendra C., 2004i:62166**
Kundu, Debasis *see* **Nandi, Swagata[2] et al., 2004f:62171**
Kurcewicz, Michał ModelBuilder—an automated general-to-specific modelling tool. (English summary) (*see* **2004a:62009**)
Kwek, Kian Teng *see* **Hughes, Anthony W. et al.**
Lacourly, Nancy *see* **Allende, Héctor et al.**
Lafaye de Micheaux, Pierre *see* **Ducharme, Gilles R., 2004m:62188**
Lagos, Bernardo M. About second order local power of the likelihood ratio, Wald and score statistics in first order autoregressive and moving average models. (English summary)
— (*with* Morettin, Pedro A.) Improvement of the likelihood ratio test statistic in ARMA models. (English summary) **2004m:62194**
Lai, Dejian (*with* Chen, Guanrong) Distribution of the estimated Lyapunov exponents from noisy chaotic time series. (English summary) **2004i:62162**
Lalancette, Simon *see* **Duchesne, Pierre**
Lambert-Lacroix, Sophie *see* **Dégerine, Serge, 2004i:62156**
Lanius, Vivian *see* **Fried, Roland et al., (2004a:62009)** *and* **Gather, Ursula et al.**
Lanne, Markku (*with* Lütkepohl, Helmut; Saikkonen, Pentti) Unit root tests in the presence of innovational outliers. (English summary) (*see* **2004k:62015**)
— (*with* Saikkonen, Pentti) Reducing size distortions of parametric stationarity tests. (English summary)
Larramendy, Irène *see* **Fabre, Jean-Pierre, 2004a:62155**
Lasser, Rupert On lag windows connected with Jacobi polynomials. (English summary) **2004b:62201**
Lee, Geunghee Choice of smoothing parameters in wavelet series estimators. (English summary) **2004i:62163**
Lee, Jack C. *see* **Lin, Tsung I.**
Lee, Oesook *see* **Shin, Dong Wan, 2004d:62317** *and* **2004f:62176**
Lee, Philip K. *see* **Brockwell, Anthony E. et al.**
Lee, Sung-Duck *see* **Cha, Kyungyup et al., 2004m:62183** *and* **Hwang, Sun Young et al.**
Lee, Tae-Hwy *see* **Hong, Yongmiao, 2004h:62156**
Lee, Tae Yoon (*with* Dickey, David A.) Limiting distributions of unconditional maximum likelihood unit root test statistics in seasonal time-series models. (English summary)
Lee, Youngjo *see* **Kang, Weechang et al., 2004e:62156**
Leipus, Remigijus (*with* Surgailis, Donatas) Random coefficient autoregression, regime switching and long memory. (English summary) **2004d:62307**
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Leybourne, Stephen (*with* Kim, Tae-Hwan; Smith, Vanessa; Newbold, Paul) Tests for a change in persistence against the null of difference-stationarity. (English summary) **2004j:62183**
— (*with* Taylor, A. M. Robert) Seasonal unit root tests based on foward and reverse estimation. (English summary) **2004e:62158**
— (*with* Taylor, A. M. Robert) On tests for changes in persistence. (English summary)
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Li, Dingding (*with* Stengos, Thanasis) Testing serial correlation in semiparametric time series models. (English summary) **2004d:62308**
Li, Dong Feng[1] *see* **Luan, Yi Hui et al., 2004i:62164**
Li, Guodong *see* **Pan, Jiazhu et al., 2004f:62172**
Li, Li *see* **Ni, Tao Yang et al.**
Li, Linyuan On Koul's minimum distance estimators in the regression models with long memory moving averages. (English summary) **2004c:62182**
Li, Ming[11] *see* **Chen, Song Xi et al., 2004g:62157**
Li, Wai-Keung (*with* Ling, Shiqing; McAleer, Michael) Recent theoretical results for time series models with GARCH errors. (*see* **2004j:62007**)
— (*with* Yu, Philip L. H.) On the residual autocorrelation of the autoregressive conditional duration model. (English summary) **2004a:62160**
— *see also* **Ling, Shiqing, 2004e:62159**; **Fong, Pak Wing, 2004f:62167** *and* **2004m:62191**
Li, Xiao Ai *see* **Xu, Bao Hua et al.**
Li, Yuan[2] *see* **Ip, Wai Cheung et al., 2004h:62158**
Li, Zheng Kai *see* **Yao, Wei Jie et al., 2004j:62192**
Li, Zhi-guo *see* **An, Hong-zhi, 2004h:62153**
Liang, Han Ying *see* **Baek, Jong Il et al., 2004f:62164**
Lieberman, Offer *see* **Zucker, David M. et al., (2004f:62019)**
Liebscher, Eckhard Strong convergence of estimators in nonlinear autoregressive models. (English summary) **2004a:62161**
Liese, Friedrich *see* **Horváth, Lajos, 2004j:62180**
Ligges, Uwe (*with* Weihs, Claus; Hasse-Becker, Petra) Detection of locally stationary segments in time series. (English summary) (*see* **2004a:62009**)
Lin, Lan *see* **Mu, Xiao Wu et al.**
Lin, Shih-Kuei *see* **Fuh, Cheng-Der et al., 2004j:62175**
Lin, Tsung I. (*with* Lee, Jack C.) On modelling data from degradation sample paths over time. (English summary)
Lin, Yan-Xia *see* **Wang, Qiying et al., 2004a:62168** *and* **Biondini, Riccardo et al.**

Ling, Shiqing (*with* McAleer, Michael) Asymptotic theory for a vector ARMA-GARCH model. (English summary) **2004a:62162**
— (*with* Li, Wai-Keung) Asymptotic inference for unit root processes with GARCH(1, 1) errors. (English summary) **2004e:62159**
— Adaptive estimators and tests of stationary and nonstationary short- and long-memory ARFIMA-GARCH models. (English summary) **2004m:62195**
— Estimation and testing stationarity for double-autoregressive models. (English summary) **2004k:62205**
— *see also* **Li, Wai-Keung et al.**, (**2004j:62007**)
Linton, Oliver B. *see* **Xiao, Zhijie et al., 2004k:62214**
Liu, Guo Xiang[2] The statistical basics of technical analysis of financial markets. (Chinese. English and Chinese summaries)
Liu, Ji Chun *see* **Yao, Wei Jie et al., 2004j:62192**
Liu, Shuangzhe On diagnostics in conditionally heteroskedastic time series models under elliptical distributions. (English summary)
Liu, Wen[1] *see* **Wang, Zhong Zhi**[1], **2004e:62169**
Liu, Yan *see* **Ni, Tao Yang et al.**
Liu, Ying An (*with* Wei, Bo Cheng; Wang, Hai Bin) Testing of homogeneity for correlation and variance in nonlinear regression models with DBL(p, 0, 1) random errors. (English summary) **2004j:62184**
— (*with* Wang, Hai Bin; Wei, Bo Cheng) Tests of auto-correlation of the nonlinear regression models with AR(2) process random errors. (Chinese. English and Chinese summaries) **2004e:62160**
Liu, Zai Ming *see* **Xiang, Yang Liu**
Lockhart, R. A. *see* **Anderson, T. W. et al.**
Loges, Wilfried The stationary marginal distribution of a threshold AR(1) process. (English summary) **2004m:62196**
London, M. D. (*with* Evans, A. K.; Turner, Martin J.) Why study financial time series? (English summary) **2004h:62159**
López, Ana Jesús *see* **Presno, María José, 2004f:62174**
Lu, Zu-di (*with* Hui, Yer Van) L_1 linear interpolator for missing values in time series. (English summary) **2004b:62202**
Luan, Yi Hui (*with* Xie, Zhong Jie; Li, Dong Feng[1]) Frequency change points estimation in hidden periodicity model. (Chinese. English and Chinese summaries) **2004i:62164**
— *see also* **Ip, Wai Cheung et al.**
Luati, Alessandra *see* **Dagum, Estela Bee**
Lubian, Diego *see* **Callegari, Francesca et al., 2004f:62166**
Lucas, André *see* **Abadir, Karim M., 2004k:62189**
Lund, Robert *see* **Shao, Qin, 2004m:62200**
Lütkepohl, Helmut Vector autoregressions. (*see* **2004j:62006**)
— (*with* Saikkonen, Pentti; Trenkler, Carsten) Comparison of tests for the cointegrating rank of a VAR process with a structural shift. (English summary) **2004a:62163**
— (*with* Saikkonen, Pentti; Trenkler, Carsten) Testing for the cointegrating rank of a VAR process with level shift at unknown time. (English summary) **2004m:62197**
— *see also* **Lanne, Markku et al.**, (**2004k:62015**)
Ma, Chunsheng Spatial autoregression and related spatio-temporal models. (English summary) **2004k:62206**
Mackin, Kenneth J. *see* **Yamasaki, Kazuko**
Maharaj, Elizabeth Ann Pattern recognition of time series using wavelets. (English summary) (*see* **2004a:62009**)
Mallat, Stéphane G. *see* **Clerc, Maureen, 2004k:62196**
Mammen, Enno *see* **Xiao, Zhijie et al., 2004k:62214**
Mandic, Danilo P. *see* **Gautama, Temujin et al., 2004k:62200**
Manning, Neil *see* **Cook, Steven**
Maravall, Agustín *see* **Kaiser, Regina**
Marmol, Francesc *see* **Dolado, Juan J. et al.**, (**2004j:62006**)
Marriott, John M. (*with* Naylor, J. C.; Tremayne, A. R.) Exploring economic time series: a Bayesian graphical approach. (English summary)
— *see also* **Zheng, Pingping**, (**2004g:62009**)
Mathew, Thomas[1] *see* **Jayakumar, K., 2004d:62302** *and* **2004d:62303**
McAleer, Michael *see* **Ling, Shiqing, 2004a:62162** *and* **Li, Wai-Keung et al.**, (**2004j:62007**)
McCabe, Brendan *see* **Harris, David**[3] **et al., 2004b:62195**
McCrae, Michael *see* **Biondini, Riccardo et al.**
McCrorie, J. Roderick The problem of aliasing in identifying finite parameter continuous time stochastic models. (English summary) **2004i:62165**
McCulloch, J. Huston *see* **Bidarkota, Prasad V.**
McKeague, Ian W. *see* **Niu, Xu-Feng et al., 2004d:62312**
McKean, Joseph W. *see* **Terpstra, Jeffrey T. et al., 2004b:62204**
McQuarrie, Allan D. (*with* Tsai, Chih-Ling) Outlier detections in autoregressive models. (English summary) **2004d:62309**
Meddahi, Nour ARMA representation of integrated and realized variances. (English summary) **2004k:62207**
Medeiros, Marcelo C. (*with* Veiga, Alvaro) Diagnostic checking in a flexible nonlinear time series model. (English summary)
Mees, Alistair I. *see* **Nakamura, Tomomichi et al.**
Melhaoui, S. *see* **Allal, J. et al., 2004k:62190**
Mentz, Raúl P. (*with* Morettin, Pedro A.; Toloi, Clélia M. C.) Bias correction for estimators of the residual variance in the ARMA(1,1) model. (English summary) **2004e:62161**
Mikosch, Thomas Modelling dependence and tails in financial time series. (*see* **2004a:62014**)
Mills, Terence C. *see* **Harvey, David I., 2004c:62181**
Mitsui, Hidetoshi (*with* Watanabe, Toshiaki) Bayesian analysis of GARCH option pricing models. (Japanese. English and Japanese summaries) **2004m:62198**
Mitwalli Aly, A. *see* **Ghazal, M. A., 2004j:62178**
Moral, Paz (*with* González, Pilar) Univariate time series modelling. (*see* **2004k:62008**)
Morettin, Pedro A. *see* **Mentz, Raúl P. et al., 2004e:62161** *and* **Lagos, Bernardo M., 2004m:62194**
Morton, Alex S. (*with* Tunnicliffe Wilson, Granville) A class of modified high-order autoregressive models with improved resolutions of low-frequency cycles. (English summary)
— *see also* **Tunnicliffe Wilson, Granville et al.**
Morvai, Gusztáv Guessing the output of a stationary binary time series. (English summary) **2004k:62208**
Moskvina, V. (*with* Schmidt, Karl Michael) Approximate projectors in singular spectrum analysis. (English summary)
Mu, Xiao Wu (*with* Lin, Lan; Zhou, Xiangdong) Predicting chaotic time series with improved local approximations. (English summary)
Müller, Peter[2] *see* **Stroud, Jonathan R. et al.**
Müller, Ulrich K. (*with* Elliott, Graham) Tests for unit roots and the initial condition. (English summary) **2004h:62160**
Nagahara, Yuichi Non-Gaussian filter and smoother based on the Pearson distribution system. (English summary)
Najim, Mohamed *see* **Alata, Olivier et al., 2004i:62153**
Nakamura, Tomomichi (*with* Kilminster, Devin; Judd, Kevin; Mees, Alistair I.) A comparative study of model selection methods for nonlinear time series. (English summary)
Nandi, Swagata[2] (*with* Iyer, Srikanth K.; Kundu, Debasis) Estimation of frequencies in presence of heavy tail errors. (English summary) **2004f:62171**
Naylor, J. C. *see* **Marriott, John M. et al.**
Newbold, Paul *see* **Leybourne, Stephen et al., 2004j:62183** *and* **Kim, Tae-Hwan et al.**
Ni, Shawn (*with* Sun, Dong Chu) Noninformative priors and frequentist risks of Bayesian estimators of vector-autoregressive models. (English summary) **2004d:62310**
— *see also* **Sun, Dong Chu, 2004k:62211**
Ni, Tao Yang (*with* Li, Li; Liu, Yan; Fang, Ji Qian; Guan, Yong Yuan) Differentiation methods for the memory of time series data. (Chinese. English and Chinese summaries)
Nielsen, Bent (*with* Shephard, Neil) Likelihood analysis of a first-order autoregressive model with exponential innovations. (English summary) **2004e:62162**
— On the distribution of likelihood ratio test statistics for cointegration rank. (English summary)
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Nielsen, Jens Perch Variable bandwidth kernel hazard estimators. (English summary) **2004d:62311**
Niu, Xu-Feng (*with* McKeague, Ian W.; Elsner, James B.) Seasonal space-time models for climate systems. (English summary) **2004d:62312**
Nový, Pavel *see* **Vávra, František et al.**, (**2004c:62006**)
Oh, Man-Suk *see* **Shin, Dong Wan, 2004e:62165**
Oh, Yu Jin (*with* So, Beong Soo) Robust tests for unit roots in heterogeneous panels. (English summary)
Ohama, Gan Granger type causality for nonlinear data. (English summary) **2004g:62163**
Öhrvik, John (*with* Schoier, Gabriella) Bootstrapping threshold autoregressive models. (*see* **2004a:62009**)
Olave Rubio, María Pilar (*with* Alcalá, José T.) Autoregressive conditional heteroscedastic models. (*see* **2004k:62008**)
Omori, Yasuhiro Discrete duration model having autoregressive random effects with application to Japanese diffusion index. (English summary)
— Estimation for unequally spaced time series of counts with serially correlated random effects. (English summary) **2004d:62313**
— *see also* **Watanabe, Toshiaki**
Ortega-Moreno, Mónica *see* **Valderrama Bonnet, Mariano J. et al.**
Osborn, Denise R. *see* **Ghysels, Eric et al.**, (**2004j:62006**)
Ospina, Raydonal *see* **Gómez Torres, Emilse et al.**
Ould Haye, Mohamedou Asymptotic behavior of the empirical process for Gaussian data presenting seasonal long-memory. (English summary) **2004d:62314**
Ould-Saïd, Elias *see* **Cai, Zongwu, 2004k:62195**
Oyet, Alwell J. *see* **Bibi, Abdelouahab, 2004k:62193**
Paap, Richard (*with* van Dijk, Herman K.) Bayes estimates of Markov trends in possibly cointegrated series: an application to U.S. consumption and income. (English summary)
Palma, Wilfredo (*with* Bondon, Pascal) On the eigenstructure of generalized fractional processes. (English summary) **2004j:62185**
Pan, Jiazhu (*with* Li, Guodong; Xie, Zhong Jie) Stationary solution and parametric estimation for bilinear model driven by ARCH noises. (English summary) **2004f:62172**
Paolella, Marc S. *see* **Carstensen, Kai**, (**2004k:62015**)
Pap, Gyula[1] *see* **Ispány, Márton et al., 2004f:62168** *and* **2004k:62202**
Paparoditis, Efstathios (*with* Politis, Dimitris N.) Residual-based block bootstrap for unit root testing. (English summary) **2004e:62163**
Park, Byeong U. (*with* Sickles, Robin C.; Simar, Léopold) Semiparametric-efficient estimation of AR(1) panel data models. (English summary) **2004h:62161a**
— (*with* Sickles, Robin C.; Simar, Léopold) Corrigendum to: "Semiparametric-efficient estimation of AR(1) panel data models" [J. Econometrics **117** (2003), no. 2, 279–309]. **2004h:62161b**
Park, Changsoon A Markov chain representation of statistical process monitoring procedure under an ARIMA(0, 1, 1) model. (Korean. English and Korean summaries) **2004c:62183**
Park, Joon Y. Bootstrap unit root tests. (English summary) **2004g:62164**
— *see also* **Chang, Yoosoon, 2004c:62178**; **2004e:62150**; **Phillips, Peter C. B. et al., 2004j:62186** *and* **de Jong, Robert M., 2004m:62192**
Pascual, Lorenzo (*with* Romo, Juan J.; Ruiz, Esther) Bootstrap predictive inference for ARIMA processes. (English summary)
— *see also* **Ruiz, Esther**, (**2004j:62007**)
Paulauskas, Vygantas (*with* Rachev, Svetlozar T.) Maximum likelihood estimators in regression models with infinite variance innovations. (English summary) **2004c:62184**
Pedroni, Peter Panel cointegration: asymptotic and finite sample properties of pooled time series tests with an application to the PPP hypothesis. (English summary)
Peiris, M. Shelton (*with* Rao, Calyampudi Radhakrishna) A note on testing for serial correlation in large number of small samples using tail probability approximations. (English summary)
— (*with* Thavaneswaran, A.) A note on the filtering for some time series models. (English summary) **2004m:62199**
— *see also* **Hunt, R. L. et al., 2004a:62156**

Peña, Daniel *see* **Guerrero, Víctor M., 2004e:62154**; **Alonso, Andrés M. et al., 2004j:62168**; **2004m:62180**; (**2004a:62009**) *and* **Carnero, M. Angeles et al.**
Pere, Pekka AR(1) models, unit roots, and adjusted profile likelihood. (English summary) **2004h:62162**
Perron, Pierre (*with* Rodríguez, Gabriel) GLS detrending, efficient unit root tests and structural change. (English summary) **2004f:62173**
— (*with* Rodríguez, Gabriel) Searching for additive outliers in nonstationary time series. (English summary) **2004c:62185**
Peters, Andrea (*with* Sibbertsen, Philipp) Tests on fractional cointegration. Comparison of a finite M- and ML-test on fractional cointegration. (English summary) (*see* **2004a:62010**)
Pfaffenzeller, Stephan *see* **Kim, Tae-Hwan et al.**
Pham Dinh Tuan (*with* Roy, Roch; Cédras, Lyne) Tests for non-correlation of two cointegrated ARMA time series. (English summary) **2004h:62163**
Philippe, Anne *see* **Zucker, David M. et al.**, (**2004f:62019**)
Phillips, Peter C. B. (*with* Sul, Donggyu) Dynamic panel estimation and homogeneity testing under cross section dependence. (English summary) **2004d:62315**
— (*with* Park, Joon Y.; Chang, Yoosoon) Nonlinear instrumental variable estimation of an autoregression. (English summary) **2004j:62186**
— *see also* **Ploberger, Werner, 2004b:62203**; **Sun, Yixiao, 2004d:62320** *and* **de Jong, Robert M., 2004m:62192**
Piroddi, L. (*with* Spinelli, W.) An identification algorithm for polynomial NARX models based on simulation error minimization. (English summary)
Pitt, Michael K. (*with* Chatfield, Chris; Walker, Stephen G.) Constructing first order stationary autoregressive models via latent processes. (English summary) **2004h:62164**
— *see also* **Watanabe, Toshiaki** *and* **Shephard, Neil**
Ploberger, Werner (*with* Phillips, Peter C. B.) Empirical limits for time series econometric models. (English summary) **2004b:62203**
Politis, Dimitris N. The impact of bootstrap methods on time series analysis. (English summary)
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Polson, Nicholas G. *see* **Stroud, Jonathan R. et al.**
Popović, Biljana Č. *see* **Ristić, Miroslav M.**
Pötscher, Benedikt M. *see* **Findley, David F. et al., 2004j:62174**
Pourahmadi, Mohsen *see* **Tarami, B., 2004m:62202**
Prášková, Zuzana Wild bootstrap in RCA(1) model. (English summary) **2004d:62316**
Preisler, Haiganoush K. *see* **Brillinger, David R. et al.**
Presno, Maria José (*with* López, Ana Jesús) Testing for stationarity in series with a shift in the mean. A Fredholm approach. (English summary) **2004f:62174**
Principe, J. C. *see* **Gao, Jianbo et al.**
Pruscha, Helmut (*with* Göttlein, Axel) Forecasting of categorical time series using a regression model. (English summary)
Psaradakis, Zacharias A sieve bootstrap test for stationarity. (English summary) **2004k:62209**
Pu, Huo Hui Min *see* **Cline, Daren B. H., 2004g:62158**
Pu, Xiao Long On the improving of cumulative sum chart. (Chinese. English and Chinese summaries) **2004h:62165**
Pugh, A. C. *see* **Jones, James William et al., 2004b:62199**
Pukkila, Tarmo *see* **Koreisha, Sergio G.**
Puri, Madan L. *see* **Shiohama, Takayuki et al., 2004g:62165**
Rabinovitch, Peter Surrogate data and fractional Brownian motion. (English summary) (*see* **2004k:62018**)
Rachev, Svetlozar T. *see* **Paulauskas, Vygantas, 2004c:62184**
Rahbek, Anders *see* **Jensen, Søren Tolver, 2004j:62182**
Ramananjarasoa, Clarisse *see* **Alata, Olivier et al., 2004i:62153**
Rangarajan, Govindan *see* **Chen, Yong Hong[2] et al.**
Rao, Calyampudi Radhakrishna *see* **Peiris, M. Shelton**
Rayner, Tony *see* **Kim, Tae-Hwan et al.**
Reale, Marco *see* **Tunnicliffe Wilson, Granville et al.**
Reisen, Valdério A. *see* **Franco, Glaura C.**
Reschenhofer, Erhard Analysis of economic growth: structural breaks, superrandomness, and nonlinear forecasting. (English summary) **2004j:62187**
de Resende, Marcos Deon Vilela (*with* Sturion, José Alfredo) Spatial statistical analysis of trials via individual mixed models with errors modelled by ARIMA processes in two dimensions. (Portuguese. English and Portuguese summaries)
Riani, Marco *see* **Grossi, Luigi**, (**2004a:62009**)
Rigby, Robert A. *see* **Benjamin, Michael A. et al., 2004a:62151**
Ristić, Miroslav M. (*with* Popović, Biljana Č.) A bivariate uniform autoregressive process. (English summary)
Robinson, Peter A. *see* **Breakspear, Michael et al.**
Rodrigues, Paulo M. M. (*with* Taylor, A. M. Robert) On tests for double differencing: methods of demeaning and detrending and the role of initial values. (English summary)
— *see also* **Ghysels, Eric et al.**, (**2004j:62006**); **Gouveia, Pedro M. D. C. B.** *and* **Hassler, Uwe**
Rodríguez, Gabriel *see* **Perron, Pierre, 2004c:62185** *and* **2004f:62173**
Romo, Juan J. *see* **Alonso, Andrés M. et al., 2004j:62168**; **2004m:62180**; (**2004a:62009**) *and* **Pascual, Lorenzo et al.**
Rothenberg, Thomas J. Some elementary distribution theory for an autoregression fitted to a random walk. (English summary) **2004e:62164**
— *see also* **Doornik, Jurgen A. et al., 2004k:62197** *and* **Abadir, Karim M. et al., 2004k:62198**
Rousseau, Judith *see* **Zucker, David M. et al.**, (**2004f:62019**)
Roy, Anindya *see* **Choudhuri, Nidhan et al., 2004m:62186**
Roy, Roch *see* **Pham Dinh Tuan et al., 2004h:62163** *and* **Duchesne, Pierre, 2004k:62199**
Ruiz, Esther (*with* Pascual, Lorenzo) Bootstrapping financial time series. (*see* **2004j:62007**)
— *see also* **Carnero, M. Angeles et al.** *and* **Pascual, Lorenzo et al.**
Russell, Jeffrey R. *see* **Bai, Xuezheng et al., 2004a:62150**
Ryan, Sarah M. Capacity expansion with lead times and autocorrelated random demand. (English summary) **2004a:62164**
Saikkonen, Pentti *see* **Lütkepohl, Helmut et al., 2004a:62163**; **2004m:62197** *and* **Lanne, Markku et al.**, (**2004k:62015**)
Sakiyama, Kenji (*with* Taniguchi, Masanobu) Testing composite hypotheses for locally stationary processes. (English summary) **2004f:62175**
Salau, M. *see* **Kavalieris, L. et al., 2004b:62200**
Salvador Figueras, Manuel (*with* Gargallo Valero, Pilar) Automatic selective intervention in dynamic linear models. (English summary)
— *see also* **Gargallo Valero, Pilar**
Sánchez, Ismael Efficient tests for unit roots with prediction errors. (English summary) **2004a:62165**
— Implementing unit roost tests in ARMA models of unknown order. (English summary)
Saphores, Jean-Daniel *see* **Khalaf, Lynda et al., 2004g:62161**
Sato, Seisho *see* **Kitagawa, Genshiro et al.**, (**2004a:62009**)
Scherrer, Wolfgang *see* **Dahlén, Anders, 2004j:62170**
Schmid, Wolfgang P. *see* **Knoth, Sven**
Schmidt, Karl Michael *see* **Moskvina, V.**
Schoier, Gabriella *see* **Öhrvik, John**, (**2004a:62009**)
Schotman, Peter C. *see* **Bams, Dennis**
Schulz, Rainer *see* **Chen, Rong[1] et al.**, (**2004k:62008**)
van Schuppen, Jan H. System theory for system identification. (English summary)
Scotto, M. G. (*with* Ferreira, Helena) Extremes of deterministic sub-sampled moving averages with heavy-tailed innovations. (English summary) **2004j:62188**
— (*with* Turkman, K. F.; Anderson, Clive W.) Extremes of some sub-sampled time series. (English summary) **2004h:62166**
— A note on the asymptotic distribution of the maxima in disaggregated time-series models. (English summary) **2004k:62210**
Sen, Amit Limiting behaviour of Dickey-Fuller F-tests under the crash model alternative. (English summary) **2004j:62189**
Sentana, Enrique *see* **Fiorentini, Gabriele et al., 2004h:62155**
Shao, Qin (*with* Lund, Robert) Computation and characterization of autocorrelations and partial autocorrelations in periodic ARMA models. (English summary) **2004m:62200**
Shephard, Neil (*with* Pitt, Michael K.) Erratum: "Likelihood analysis of non-Gaussian measurement time series" [Biometrika **84** (1997), no. 3, 653–667].
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Shin, Dong Wan (*with* Oh, Man-Suk) Lagged unstable regressor models and asymptotic efficiency of the ordinary least squares estimator. (English summary) **2004e:62165**
— (*with* Lee, Oesook) Unit root tests for autoregressive moving average processes based on M-estimators. (English summary) **2004f:62176**
— (*with* Lee, Oesook) An instrumental variable approach for tests of unit roots and seasonal unit roots in asymmetric time series models. (English summary) **2004d:62317**
— Estimation of spectral density for seasonal time series models. (English summary) **2004m:62201**
— *see also* **Kang, Weechang et al., 2004e:62156**
Shiohama, Takayuki (*with* Taniguchi, Masanobu; Puri, Madan L.) Asymptotic estimation theory of change-point problems for time series regression models and its applications. (English summary) **2004g:62165**
Sibbertsen, Philipp *see* **Peters, Andrea**, (**2004a:62010**)
Sickles, Robin C. *see* **Park, Byeong U. et al., 2004h:62161a** *and* **2004h:62161b**
Simar, Léopold *see* **Park, Byeong U. et al., 2004h:62161a** *and* **2004h:62161b**
Šindelář, Jan (*with* Knížek, Jiří) On unequally spaced AR(1) process. (English summary) **2004d:62318**
Slim, Skander *see* **Clémençon, Stéphan**
Smadi, Abdullah A. *see* **Ula, Taylan A.**
Small, Michael (*with* Tse, Chi K.) Detecting determinism in time series: the method of surrogate data. (English summary) **2004d:62319**
Smith, Richard J. *see* **Taylor, A. M. Robert, 2004c:62186**
Smith, Vanessa *see* **Leybourne, Stephen et al., 2004j:62183**
So, Beong Soo *see* **Oh, Yu Jin**
So, Mike K. P. Bayesian analysis of long memory stochastic volatility models. (English summary) **2004a:62166**
— *see also* **Wong, Chi-Ming, 2004k:62213**
Sohn, Keon Tae *see* **Baek, Jeong-Seon et al., 2004g:62152**
Sollis, Robert Asymmetric adjustment and smooth transitions: a combination of some unit root tests. (English summary)
Son, Young Sook (*with* Cho, Sinsup; Kim, Seong W.) Bayesian estimation using the MCMC method for the NEAR(2) time series model. (English summary)
Song, Seuck Heun *see* **Jeske, Roland, 2004d:62304**
Spanos, Aris Time series and dynamic models. (*see* **2004j:62006**)
Sparks, Ross Monitoring for increases in process variance. (English summary)
Speckman, Paul L. (*with* Sun, Dong Chu) Fully Bayesian spline smoothing and intrinsic autoregressive priors. (English summary) **2004e:62166**
Spinelli, W. *see* **Piroddi, L.**
Spreij, Peter *see* **Klein, André, 2004e:62157**
Srivastava, Mukesh *see* **Kumar, Kuldeep[1]**
Stadie, Andreas Detecting periods in which a time series model fails to predict the observed volatility. (English summary)
Stasinopoulos, D. Mikis *see* **Benjamin, Michael A. et al., 2004a:62151**
Stengos, Thanasis *see* **Li, Dingding, 2004d:62308**
Stenseth, Nils Chr. *see* **Chan, Kung Sik et al.**
Stephan, Sabine *see* **Chen, Rong[1] et al.**, (**2004k:62008**)
Stephens, M. A. *see* **Anderson, T. W. et al.**
Storti, Giuseppe (*with* Vitale, Cosimo) Likelihood inference in BL-GARCH models. (English summary)
Streett, Sarah B. *see* **Davis, Richard Alan et al., 2004j:62171**
Strikholm, Birgit *see* **van Dijk, Dick et al.**
Stroud, Jonathan R. (*with* Müller, Peter[2]; Polson, Nicholas G.) Nonlinear state-space models with state-dependent variances. (English summary)
Sturion, José Alfredo *see* **de Resende, Marcos Deon Vilela**
Sul, Donggyu *see* **Phillips, Peter C. B., 2004d:62315**

Sun, Dong Chu (*with* Ni, Shawn) Bayesian analysis of vector-autoregressive models with noninformative priors. (English summary) **2004k:62211**
— *see also* **Ni, Shawn**, **2004d:62310** *and* **Speckman, Paul L.**, **2004e:62166**
Sun, Yixiao (*with* Phillips, Peter C. B.) Nonlinear log-periodogram regression for perturbed fractional processes. (English summary) **2004d:62320**
Surgailis, Donatas *see* **Leipus, Remigijus**, **2004d:62307**
Sutradhar, Brajendra C. (*with* Kumar, Pranesh) Errata to: "The inversion of correlation matrix for MA(1) process" [Appl. Math. Lett. **16** (2003), no. 3, 317–321]. **2004i:62166**
Swamy, P. A. V. B. (*with* Tavlas, George S.) Random coefficient models. (*see* **2004j:62006**)
Swensen, Anders Rygh Bootstrapping unit root tests for integrated processes. (English summary) **2004a:62167**
Taniguchi, Masanobu *see* **Sakiyama, Kenji**, **2004f:62175** *and* **Shiohama, Takayuki et al.**, **2004g:62165**
Tanner, Martin A. *see* **Huerta, Gabriel et al.**, **2004j:62181**
Tao, Jing Xuan Some notes on analysis of time series. (Chinese. English and Chinese summaries)
Taqqu, Murad S. *see* **Veitch, Darryl et al.**, **2004j:62191**
Tarami, B. (*with* Pourahmadi, Mohsen) Multi-variate t autoregressions: innovations, prediction variances and exact likelihood equations. (English summary) **2004m:62202**
Tavlas, George S. *see* **Swamy, P. A. V. B.**, (**2004j:62006**)
Taylor, A. M. Robert (*with* Smith, Richard J.) Tests of the seasonal unit-root hypothesis against heteroscedastic seasonal integration. (English summary) **2004c:62186**
— Regression-based unit root tests with recursive mean adjustment for seasonal and nonseasonal time series. (English summary) **2004e:62167**
— On the asymptotic properties of some seasonal unit root tests. (English summary) **2004c:62187**
— Locally optimal tests against unit roots in seasonal time series processes. (English summary) **2004i:62167**
— *see also* **Burridge, Peter**, **2004c:62177**; **Leybourne, Stephen**, **2004e:62158**; **Busetti, Fabio**, **2004g:62155**; **2004h:62154**; **Breitung, Jörg** *and* **Rodrigues, Paulo M. M.**
Taylor, Charles C. (*with* Zempléni, A.) Chain plot: a tool for exploiting bivariate temporal structures. (English summary)
Teamah, A. A. M. (*with* Bakouch, H. S.) Multitaper multivariate spectral estimators of time series with distorted observations. (English summary)
Teräsvirta, Timo *see* **van Dijk, Dick et al.**
Terpstra, Jeffrey T. (*with* McKean, Joseph W.; Anderson, Kirk) Studentized autoregressive time series residuals. (English summary) **2004b:62204**
Teyssière, Gilles *see* **Giraitis, Liudas et al.** *and* **Horváth, Lajos et al.**
Thavaneswaran, A. (*with* Thompson, Mary E.) Nonnormal filtering via estimating functions. (English summary) (*see* **2004a:62007**)
— *see also* **Peiris, M. Shelton**, **2004m:62199**
Thomas, Alice (*with* Jose, K. K.) Marshall-Olkin Pareto processes. (English summary) **2004d:62321**
Thompson, Mary E. *see* **Thavaneswaran, A.**, (**2004a:62007**)
Thompson, Samuel B. Optimal versus robust inference in nearly integrated non-Gaussian models. (English summary) **2004m:62203**
— Robust tests of the unit root hypothesis should not be "modified". (English summary)
Tian, Ping (*with* Dong, Xian Feng; Wang, De Hui; Huang, Xiao Wei) An estimation method for the AR(p) model with one datum or two consecutive data missing. (Chinese. English and Chinese summaries) **2004d:62322**
Tiao, George C. *see* **Bai, Xuezheng et al.**, **2004a:62150**
Tödter, Karl-Heinz Exponential smoothing as an alternative to the Hodrick-Prescott filter? (English summary) (*see* **2004k:62015**)
Tokihisa, Akira (*with* Hamori, Shigeyuki) Unit root and cointegration tests under heteroskedasticity. (English summary) **2004j:62190**
Toloi, Clélia M. C. *see* **Mentz, Raúl P. et al.**, **2004e:62161**
Tong, Howell Nonlinear time series analysis since 1990: some personal reflections. (English summary)
— *see also* **Chan, Kung Sik et al.** *and* **Gao, Jiti**
Torres, Soledad *see* **Allende, Héctor et al.**
Tremayne, A. R. *see* **Marriott, John M. et al.**
Trenkler, Carsten *see* **Lütkepohl, Helmut et al.**, **2004a:62163** *and* **2004m:62197**
Tripier, Fabien *see* **Fillol, Jérôme**
Trush, N. N. (*with* Tsekhovaya, Tatiana) Asymptotic distribution of the mutual variogram estimate.
Tsai, Chih-Ling *see* **McQuarrie, Allan D.**, **2004d:62309**
Tse, Chi K. *see* **Small, Michael**, **2004d:62319**
Tse, Sze-Man *see* **Hsu, Yu-Yun et al.**
Tsekhovaya, Tatiana *see* **Trush, N. N.**
Tsionas, Efthymios G. Bayesian inference in time series models using kernel quasi likelihoods. (English summary)
Tsui, Kwok-Leung *see* **Jiang, Wei**[2], **2004f:62169**
Tunnicliffe Wilson, Granville (*with* Reale, Marco; Morton, Alex S.) Developments in multivariate time series modeling. (English summary)
— *see also* **Morton, Alex S.**
Turcu, Flavius *see* **Alata, Olivier et al.**, **2004i:62153**
Turkman, K. F. *see* **Scotto, M. G. et al.**, **2004h:62166** *and* **Antunes, M. et al.**
Turner, Martin J. *see* **London, M. D. et al.**, **2004h:62159**
Tzavalis, Elias *see* **Doornik, Jurgen A. et al.**, **2004k:62197** *and* **Abadir, Karim M. et al.**, **2004k:62198**
Ula, Taylan A. (*with* Smadi, Abdullah A.) Identification of periodic moving-average models. (English summary)
— (*with* Yozgatligil, Ceylan) Modified maximum-likelihood method for non-normal time series revisited. (English summary)
Valderrama Bonnet, Mariano J. (*with* Ortega-Moreno, Mónica; González Rodelas, Pedro; Aguilera Del Pino, Ana Ma.) Derivation of a state-space model by functional data analysis. (English summary)
Van Hulle, Marc M. *see* **Gautama, Temujin et al.**, **2004k:62200**
Vardi, Yehuda *see* **Jörnsten, Rebecka et al.**, (**2004d:62007**)
Vávra, František (*with* Nový, Pavel; Kotlíková, Michala) Heuristic model of time series. (English summary) (*see* **2004c:62006**)
Veiga, Alvaro *see* **Medeiros, Marcelo C.**
Veitch, Darryl (*with* Abry, Patrice; Taqqu, Murad S.) On the automatic selection of the onset of scaling. (English summary) **2004j:62191**
Velasco, Carlos Nonparametric frequency domain analysis of nonstationary multivariate time series. (English summary) **2004e:62168**
Veredas, David *see* **Bauwens, Luc**
Vidoni, Paolo Improved prediction intervals for stochastic process models. (English summary)
Villar, Ana J. *see* **García Ben, Marta et al.**, **2004d:62296**
Vitale, Cosimo *see* **Storti, Giuseppe**
Vonta, Filia *see* **Karagrigoriou, Alex**, **2004k:62204**
Vougas, Dimitrios V. Reconsidering LM unit root testing. (English summary) **2004f:62177**
Vrobel, Susie Fractal time and nested detectors. (English summary) (*see* **2004d:28001**)
Vrontos, I. D. (*with* Dellaportas, Petros; Politis, Dimitris N.) A full-factor multivariate GARCH model. (English summary)
Vyazilov, A. E. Empirical processes and robust estimation of parameters of the GARCH model. (English summary) **2004m:62204**
Waggoner, Daniel F. (*with* Zha, Tao) Likelihood preserving normalization in multiple equation models. (English summary) **2004f:62178**
Wago, Hajime Bayesian estimation of smooth transition GARCH model using Gibbs sampling. (English summary)
Walker, A. Morris A note on estimation by least squares for harmonic component models. (English summary) **2004h:62167**
Walker, Stephen G. *see* **Pitt, Michael K. et al.**, **2004h:62164**
Wallace, Jeremy *see* **Kiiveri, Harri T. et al.**, **2004g:62162**
Wang, De Hui *see* **Tian, Ping et al.**, **2004d:62322**
Wang, Hai Bin *see* **Liu, Ying An et al.**, **2004e:62160** *and* **2004j:62184**
Wang, Hung-Jen[2] A stochastic frontier analysis of financing constraints on investment: the case of financial liberalization in Taiwan. (English summary)
Wang, Jian Zhou (*with* Yang, Yong[1]) Identifying and mining of outlier data based on wavelet analysis of statistical attributes. (Chinese. English and Chinese summaries)
Wang, Li Hong[1] Asymptotics of L_1-estimators in moving average time series models. (English summary) **2004k:62212**
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Iasemidis, Leonidas D. *see* **Pardalos, Panos M. et al., 2004d:62372**
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Jaffe, J. *see* **Badalamenti, A. F. et al.**
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Krämer, Walter (*with* Marmol, Francesc) The power of residual-based tests for cointegration when residuals are fractionally integrated. (English summary) **2004m:91193**
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Ledford, Anthony W. (*with* Tawn, Jonathan A.) Diagnostics for dependence within time series extremes. (English summary) **2004d:62254**
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Levit, Boris *see* **Belitser, Eduard, 2004k:62099**
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Lillo, Fabrizio *see* **Micciché, Salvatore et al.**
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Mantegna, Rosario N. *see* **Micciché, Salvatore et al.**
Marmol, Francesc *see* **Krämer, Walter, 2004m:91193**
Marquette, L. *see* **Badalamenti, A. F. et al.**
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McAleer, Michael *see* **Ling, Shiqing et al., 2004f:62068** *and* **Verhoeven, Peter**
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Merhav, Neri (*with* Weissman, Tsachy) Scanning and prediction in multidimensional data arrays. (English summary) **2004f:94044**
Mestre, Olivier *see* **Caussinus, Henri**
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Mourid, Tahar *see* **Mokhtari, Fatiha, 2004k:62220**
(Mukerjee, Rahul) *see* **Rao, Calyampudi Radhakrishna, (2004k:62017)**
Mukherjee, Kanchan *see* **Bose, Arup, 2004j:62035**
Müller, Hans-Georg *see* **He, Guozhong et al.**
Muruganandam, Paulsamy *see* **Ferreira, Fernando F. et al., 2004c:91049**
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Neytchev, P. *see* **Neykov, N. M. et al.**
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Ng, Kai Wang *see* **Tse, Y. K. et al.**
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Park, Jeong-gun (*with* Basawa, Ishwar V.) Optimal estimating equations for mixed effects models with dependent observations. (English summary) **2004h:62048**
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von Sachs, Rainer *see* **Guo, Wensheng et al., 2004h:62168**
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Sansó, Bruno *see* **Huerta, Gabriel et al.**
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62M15 Spectral analysis

Bakouch, H. S. *see* **Teamah, A. A. M., 2004k:62216**
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Lalancette, Simon *see* **Duchesne, Pierre**
Leonenko, N. N. *see* **Anh, V. V. et al., 2004a:62175**
Luati, Alessandra *see* **Dagum, Estela Bee**
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Zhurbenko, Igor G. *see* **Neagu, Radu, 2004e:94012**

62M20 Prediction [see also 60G25]; filtering [see also 60G35, 93E10, 93E11]

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Ali, Md. Ayub *see* **Khan, Md. Atikur Rahman**
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Chu, Gilbert *see* **Tibshirani, Robert et al.**
Ciccarelli, Matteo *see* **Canova, Fabio**
Cléroux, Robert *see* **Lazraq, Aziz, 2004a:62172**
Cressie, Noel *see* **Aldworth, Jeremy, 2004b:62206**
Daley, Daryl John (*with* Vere-Jones, David) Scoring probability forecasts for point processes: the entropy score and information gain. (English summary)
De Schutter, Joris *see* **Lefebvre, Tine et al., 2004i:62170**
Dube, Madhulika (*with* Manocha, Veena) Simultaneous prediction in restricted regression models. (English summary) **2004e:62172**
Durairajan, T. M. *see* **William, Martin L., 2004d:62327**
Ebeling, Werner Entropies and predictability of nonlinear processes and time series. (English summary) (*see* **2004j:00014**)
Fenga, Livio *see* **Battaglia, Francesco, 2004e:62171**
Gadeyne, Klaas *see* **Lefebvre, Tine et al., 2004i:62170**
Giacomini, Raffaella (*with* Granger, Clive W. J.) Aggregation of space-time processes. (English summary) **2004j:62196**
Gibbons, Robert David *see* **Bhaumik, Dulal Kumar**
González-Farías, Graciela *see* **Peraza, Felipe, 2004b:62207**
Granger, Clive W. J. *see* **Giacomini, Raffaella, 2004j:62196**
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— *see also* **Su, Heng Yan**
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Johansson, Rolf *see* **Andersson, Sofia et al.**, **2004h:62170**
Jung, Byoung Cheol *see* **Jhun, Myoungshic et al.**
Kadane, Joseph B. *see* **Schervish, Mark J. et al.**, **2004d:62326**
Kaiser, Ulrich[2] *see* **Phu Nguyen Van et al.**
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LeBlanc, Michael *see* **Ruczinski, Ingo et al.**
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Liang, Meng *see* **Chu, Dong Sheng et al.** *and* **Liu, Bin et al.**
Linares Pérez, Josefa *see* **Caballero-Águila, Raquel et al.**, **2004d:62323** *and* **Nakamori, Seiichi et al.**, **2004d:62325**
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de Luna, Xavier (*with* Skouras, Kostas) Choosing a model selection strategy. (English summary) **2004a:62173**
Ma, Tieju (*with* Nakamori, Yoshiteru) An agent-based approach to identification of prediction models. (English summary)
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Manocha, Veena *see* **Dube, Madhulika**, **2004e:62172**
Martin, Donald E. K. *see* **Bell, William R.**
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Mokhtari, Fatiha (*with* Mourid, Tahar) Prediction of continuous time autoregressive processes via the reproducing kernel spaces. (English summary) **2004k:62220**
Mola, Francesco *see* **Aria, Massimo et al.**, (**2004a:62009**)
Mort, N. *see* **Hiassat, M. et al.**, (**2004j:62012**)
Mourid, Tahar *see* **Mokhtari, Fatiha**, **2004k:62220**
Mukerjee, Rahul *see* **Wei, Gang**[1], **2004k:62222**
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Nakamori, Yoshiteru *see* **Ma, Tieju**
Narasimhan, Balasubramanian *see* **Tibshirani, Robert et al.**
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Nigm, A. M. (*with* AL-Hussaini, Essam K.; Jaheen, Zeinhum F.) Bayesian one-sample prediction of future observations under Pareto distribution. (English summary)
Nymoen, Ragnar *see* **Bårdsen, Gunnar et al.**
Opper, Manfred *see* **Malzahn, Dörthe**
Oudjane, Nadia *see* **Le Gland, François**, **2004k:62219**
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Peraza, Felipe (*with* González-Farías, Graciela) Indicator variables in spatial prediction when Σ is unknown. (English summary) **2004b:62207**
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Quintana, Fernando A. *see* **San Martín, Ernesto**, **2004b:62208**
del Río, J. González *see* **Wackernagel, H. et al.**, (**2004m:62011**)
Ruan, Ji Shou *see* **Shen, Shi Yi**, **2004k:62221**
Ruczinski, Ingo (*with* Kooperberg, Charles; LeBlanc, Michael) Logic regression. (English summary)
Rydén, Tobias *see* **Andersson, Sofia et al.**, **2004h:62170**
Sánchez, María Jesús *see* **Mira Mcwilliams, José**
Sandroni, Alvaro The reproducible properties of correct forecasts. (English summary) **2004m:62206**
San Martín, Ernesto (*with* Quintana, Fernando A.) Consistency and identifiability revisited. (English summary) **2004b:62208**
Sapatinas, Theofanis *see* **Antoniadis, Anestis**, **2004f:62179**
Satoh, Daisuke Application of discrete equations to forecasting.
Satorra, Albert *see* **Neudecker, Heinz**, **2004c:62190**
Schervish, Mark J. (*with* Seidenfeld, Teddy; Kadane, Joseph B.) Measuring incoherence. (English summary) **2004d:62326**
Seidenfeld, Teddy *see* **Schervish, Mark J. et al.**, **2004d:62326**
Shen, Shi Yi (*with* Ruan, Ji Shou) Conditional hidden Markovity of the secondary structure of proteins and related prediction problems. (Chinese. English and Chinese summaries) **2004k:62221**
Shi, Yong[1] *see* **Tang, Xiaowo et al.**, **2004c:62192** *and* **2004c:62193**
Siciliano, Roberta *see* **Aria, Massimo et al.**, (**2004a:62009**)
Sierra, J. P. *see* **Wackernagel, H. et al.**, (**2004m:62011**)
Singh, Abhishek *see* **Sisodia, B. V. S.**
Sisodia, B. V. S. (*with* Singh, Abhishek) On composite estimation in repeated surveys under super population model. (English summary)
Sjöstedt-de Luna, Sara (*with* Young, Alastair) The bootstrap and kriging prediction intervals. (English summary) **2004c:62191**
Skouras, Kostas *see* **de Luna, Xavier**, **2004a:62173**
So, Mike K. P. Posterior mode estimation for nonlinear and non-Gaussian state space models. (English summary) **2004b:62209**
Song, Seuck Heun *see* **Jhun, Myoungshic et al.**
Srivastava, Muni S. *see* **Kubokawa, Tatsuya**, **2004k:62218**
Stock, James H. Forecasting economic time series. (*see* **2004j:62006**)
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Sundberg, Rolf Conditional statistical inference and quantification of relevance. (English summary) **2004a:62174**
Sworder, David D. *see* **Boyd, John E. et al.**
Tajvidi, Nader *see* **Hall, Peter G.**
Tang, Xiaowo (*with* Zhou, Zongfang; Shi, Yong[1]) The error bounds of combined forecasting. (English summary) **2004c:62192**
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Taniguchi, Masanobu *see* **Choi, In-Bong**, **2004a:62171**
Tibshirani, Robert (*with* Hastie, Trevor J.; Narasimhan, Balasubramanian; Chu, Gilbert) Class prediction by nearest shrunken centroids, with applications to DNA microarrays. (English summary)
Vere-Jones, David *see* **Daley, Daryl John**
Vovk, Vladimir G. Asymptotic optimality of transductive confidence machine. (English summary)
Wackernagel, H. (*with* Bertino, L.; Sierra, J. P.; del Río, J. González) Multivariate kriging for interpolating with data from different sources. (English summary) (*see* **2004m:62011**)
Wang, Xue Ren *see* **Chen, Li**, **2004a:62170**
Wei, Gang[1] (*with* Mukerjee, Rahul) Predictive densities: general asymptotic results and admissibility. (English summary) **2004k:62222**
Wei, L. J. *see* **Park, Yuhyun**
Willems, Jan C. Deterministic least squares filtering. (English summary) **2004i:62171**
William, Martin L. (*with* Durairajan, T. M.) Optimal equivariant vector prediction in location families. (English summary) **2004d:62327**
Young, Alastair *see* **Sjöstedt-de Luna, Sara**, **2004c:62191**
Zhang, Ling *see* **Chu, Dong Sheng et al.**
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Zheng, Cheng Li (*with* Han, Li Yan) Forecasting of corporate default risk based on fuzzy statistics. (Chinese. English and Chinese summaries) **2004b:62210**
Zhou, Zongfang *see* **Tang, Xiaowo et al.**, **2004c:62192** *and* **2004c:62193**
van Zwet, Erik Predicting travel times on railways. (Dutch) (*see* **2004i:00010**)

Items with secondary classifications in 62M20

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Amaral-Turkman, M. Antonia *see* **Antunes, M. et al.** *and* **Pereira, Isabel M. S.**
Angulo, J. M. *see* **Ruiz-Medina, M. D. et al.**, **2004h:60062**
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Arnold, Bernhard F. (*with* Stahlecker, Peter) Relative squared error prediction in the generalized linear regression model. (English summary) **2004a:62136**
Bad-Dumitrescu, Monica E. *see* **von Collani, Elart**, **2004i:90025**
Baumann, William A. *see* **Heien, Herbert C. et al.**
Bhansali, R. J. (*with* Kokoszka, P. S.) Prediction of long-memory time series: an overview. (English summary) **2004k:62192**
Bickel, Peter J. (*with* Ritov, Ya'acov; Rydén, Tobias) Hidden Markov and state space models asymptotic analysis of exact and approximate methods for prediction, filtering, smoothing and statistical inference. (English summary) (*see* **2004b:00013**)
Billings, Stephen A. *see* **Lee, Kian**, **2004d:93136**
Blokhin, L. N. Modernized multidimensional Wiener filtering. (Russian. Russian summary)
Bodnar, Rostyslav (*with* Stettner, Łukasz) Asymptotics of controlled finite memory filters. (English summary) **2004f:93136**
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Bosq, Denis Estimation of the autocorrelation operator and prediction for infinite-dimensional autoregressive processes. (English summary) **2004b:62191**
Breiman, Leo Population theory for boosting ensembles. (English summary) **2004m:62144**
Budhiraja, Amarjit Asymptotic stability, ergodicity and other asymptotic properties of the nonlinear filter. (English and French summaries) **2004h:60063**
Burnett, Richard T. *see* **Ma, Renjun et al., 2004j:62209**
Cao, Hongqing (*with* Kang, Li-shan; Chen, Yu Ping; Guo, Tao) The dynamic evolutionary modeling of HODEs for time series prediction. (English summary) **2004i:37159**
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Chen, Yu Ping *see* **Cao, Hongqing et al., 2004i:37159**
Clifford, Peter *see* **Fearnhead, Paul, 2004i:62151**
Clutter, Michael *see* **Hall, Daniel B.**
von Collani, Elart (*with* Bad-Dumitrescu, Monica E.) Neyman exclusion procedure. (English summary) **2004i:90025**
Cullis, Brian *see* **Gilmour, Arthur et al.**
Da, Qing Li *see* **Zhang, Qin²**
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Desbouvries, François Non-Euclidean geometrical aspects of the Schur and Levinson-Szegö algorithms. (English summary) **2004h:94011**
Diakoulakis, I. E. (*with* Koulouriotis, D. E.; Emiris, D. M.) A review of stock market prediction using computational methods. (English summary) **2004j:91126**
Diversi, Roberto (*with* Guidorzi, Roberto; Soverini, Umberto) Algorithms for optimal errors-in-variables filtering. (English summary) **2004h:93187**
Emiris, D. M. *see* **Diakoulakis, I. E. et al., 2004j:91126**
Enikeeva, F. N. *see* **Golubev, G. K., 2004b:62017**
Essex, C. *see* **Davison, Matt et al.**
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Fan, Yanqin On the approximate decorrelation property of the discrete wavelet transform for fractionally differenced processes. (English summary) **2004d:94010**
Farmer, J. Doyne *see* **Smith, David Eric et al., 2004j:91107**
Fearnhead, Paul (*with* Clifford, Peter) On-line inference for hidden Markov models via particle filters. (English summary) **2004i:62151**
Ferraty, Frédéric (*with* Goia, Aldo; Vieu, Philippe) Functional nonparametric model for time series: a fractal approach for dimension reduction. (English summary) **2004a:60084**
Findley, David F. (*with* Wei, Ching-Zong) AIC, overfitting principles, and the boundedness of moments of inverse matrices for vector autoregressions and related models. (English summary) **2004d:62294**
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Florchinger, Patrick A filtered EM algorithm for parameter estimation in linear filtering. (English summary) **2004f:60094**
Fraiman, Ricardo *see* **Boente, Graciela, 2004d:62290**
Franz, Jürgen *see* **Abdel-Aty, Yahia et al.**
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Gannoun, Ali (*with* Saracco, Jérôme; Yu, Ke Ming) Nonparametric prediction by conditional median and quantiles. (English summary) **2004g:62071**
Gao, Zi You *see* **Li, Ke-Ping et al.**
George, Raju K. Prediction of soil temperature by using artificial neural networks algorithms. (English summary) **2004d:86023**
Georgiou, Tryphon T. The mixing of state statistics. (English summary) **2004g:93148**
Gilboa, Itzhak (*with* Schmeidler, David) Inductive inference: an axiomatic approach. (English summary) **2004b:91032**
Gillemot, László *see* **Smith, David Eric et al., 2004j:91107**
Gilmour, Arthur (*with* Cullis, Brian; Welham, Sue; Gogel, Beverley; Thompson, Robin) An efficient computing strategy for prediction in mixed linear models. (English summary)
Gogel, Beverley *see* **Gilmour, Arthur et al.**
Goia, Aldo *see* **Ferraty, Frédéric et al., 2004a:60084**
Golubev, G. K. (*with* Enikeeva, F. N.) On a problem of minimax estimation of a fractional derivative. (Russian. Russian summary) **2004b:62017**
Gorokhov, O. Yu. *see* **Semoushin, I. V., (2004j:00012)**
Guerrero, Víctor M. (*with* Peña, Daniel) Combining multiple time series predictors: a useful inferential procedure. (English summary) **2004e:62154**
Guidorzi, Roberto *see* **Diversi, Roberto et al., 2004h:93187**
Guo, Tao *see* **Cao, Hongqing et al., 2004i:37159**
Haberman, Steven *see* **Renshaw, A. E.**
Hall, Daniel B. (*with* Clutter, Michael) Multivariate multilevel nonlinear mixed effects models for timber yield predictions. (English and French summaries)
Hamers, Michael ★ Regression estimation in case of finite support of the predictor variables. (English and German summaries) **2004i:62087**
Heien, Herbert C. (*with* Baumann, William A.; Rahman, Mezbahur) An application of logistic regression in estimation and prediction. (English summary)
Hess, Klaus Th. (*with* Schmidt, Klaus D.) A comparison of models for the chain-ladder method. (English summary) **2004a:60037**
Hou, Ding Pi *see* **Chen, Hua You**
Howlett, Phil G. (*with* Pearce, Charles E. M.; Torokhtiĭ, A. P.) An optimal linear filter for random signals with realisations in a separable Hilbert space. (English summary) **2004e:94011**
Huang, Zheng² Data compression methods for multisensor Kalman filter fusion. (Chinese. English and Chinese summaries)
Ing, Ching-Kang (*with* Wei, Ching-Zong) On same-realization prediction in an infinite-order autoregressive process. (English summary) **2004b:62197**
— (*with* Yu, Shu-Hui) On estimating conditional mean-squared prediction error in autoregressive models. (English summary) **2004b:62198**
Ittig, Peter T. Comparison of efficient seasonal indexes. (English summary)
Jaheen, Zeinhum F. Bayesian prediction under a mixture of two-component Gompertz lifetime model. (English summary)
Kang, Li-shan *see* **Cao, Hongqing et al., 2004i:37159**
Kao, Ming Shu *see* **Nembhard, Harriet Black**
Karagrigoriou, Alex (*with* Vonta, Filia) Asymptotically optimal AR spectral estimate for multistep prediction. (English summary) **2004k:62204**
Kibria, B. M. Golam Robust predictive inference for the multivariate linear model. (English summary)
— *see also* **Thabane, Lehana**
Kim, Hag-Soo A Bayesian analysis on the effect of multiple supply options in a quick response environment. (English summary) **2004i:90066**
Kim, Hyoung-Moon (*with* Mallick, Bani K.) A note on Bayesian spatial prediction using the elliptical distribution. (English summary) **2004f:62123**
— (*with* Mallick, Bani K.) A Bayesian prediction using the skew Gaussian distribution. (English summary)
Kokoszka, P. S. *see* **Bhansali, R. J., 2004k:62192**
Koulouriotis, D. E. *see* **Diakoulakis, I. E. et al., 2004j:91126**
Krewski, Daniel *see* **Ma, Renjun et al., 2004j:62209**
Krishnamurthy, Supriya *see* **Smith, David Eric et al., 2004j:91107**
Krzyżak, Adam (*with* Rafajłowicz, Ewaryst; Skubalska-Rafajłowicz, Ewa) Clipped median and space-filling curves in image filtering. (English summary) **2004c:94017**
Kundu, Subrata *see* **Nayak, Tapan K., 2004f:60005**
Laurent, Sébastien (*with* Peters, Jean-Philippe) G@RCH 2.2: an Ox package for estimating and forecasting various ARCH models. (*see* **2004j:62007**)
Lee, Kian (*with* Billings, Stephen A.) Effects of noise reduction on the prediction accuracy of time series. (English summary) **2004d:93136**
Lee, Yong Wan (*with* Oh, Myoungho; Shin, V. I.) Adaptive nonlinear continuous-discrete filtering. (English summary) **2004f:93130**
Li, Ke-Ping (*with* Chen, Tian-Lun; Gao, Zi You) Time series prediction based on chaotic attractor. (English summary)
Lin, Xiao Gui A least second-moment method for futures hedging. (Chinese. English and Chinese summaries) **2004a:91077**
Lu, Ning Iterated data mining techniques on embedded vector modeling. **2004c:68027**
Ma, Renjun (*with* Krewski, Daniel; Burnett, Richard T.) Random effects Cox models: a Poisson modelling approach. (English summary) **2004j:62209**
Mahmoud, M. A. W. *see* **Abdel-Aty, Yahia et al.**
Mallick, Bani K. *see* **Kim, Hyoung-Moon, 2004f:62123**
McLernon, Desmond C. On the application of digital signal processing theory to solving combinatorial problems in statistics. (English summary)
Merhav, Neri (*with* Weissman, Tsachy) Scanning and prediction in multidimensional data arrays. (English summary) **2004f:94044**
Morettin, Pedro A. *see* **Zandonade, Eliana**
Morvidone, Marcela (*with* Torresani, Bruno) Time scale approach for chirp detection. (English summary)
Möttönen, Jyrki *see* **Nummi, T.**
Näther, Wolfgang (*with* Šimák, Jaroslav) Effective observation of random processes using derivatives. (English summary) **2004e:60062**
Nayak, Tapan K. (*with* Kundu, Subrata) Some remarks on generalizations of the likelihood function and the likelihood principle. (English summary) **2004f:60005**
Nembhard, Harriet Black (*with* Kao, Ming Shu) Adaptive forecast-based monitoring for dynamic systems. (English summary)
Nielsen, Jens Perch Variable bandwidth kernel hazard estimators. (English summary) **2004d:62311**
Nobel, Andrew B. On optimal sequential prediction for general processes. (English summary) **2004e:94013**
Nummi, T. (*with* Möttönen, Jyrki) Prediction of stem measurements of Scots pine. (English summary)
Oh, Myoungho *see* **Lee, Yong Wan et al., 2004f:93130**
Pascual, Lorenzo (*with* Romo, Juan J.; Ruiz, Esther) Bootstrap predictive inference for ARIMA processes. (English summary)
Pearce, Charles E. M. *see* **Howlett, Phil G. et al., 2004e:94011**
Peiris, M. Shelton (*with* Thavaneswaran, A.) A note on the filtering for some time series models. (English summary) **2004m:62199**
Peña, Daniel *see* **Guerrero, Víctor M., 2004e:62154** *and* **Time series analysis**
Pereira, Isabel M. S. (*with* Amaral-Turkman, M. Antonia) Bayesian prediction in threshold autoregressive models with exponential white noise. (English summary)
Persson, Per-Olof (*with* Strang, Gilbert) Smoothing by Savitzky-Golay and Legendre filters. **2004k:93134**
Peters, Jean-Philippe *see* **Laurent, Sébastien, (2004j:62007)**
Piroddi, L. (*with* Spinelli, W.) An identification algorithm for polynomial NARX models based on simulation error minimization. (English summary)
Pötscher, Benedikt M. *see* **Findley, David F. et al., 2004j:62174**
Pourahmadi, Mohsen *see* **Tarami, B., 2004m:62202**
Rafajłowicz, Ewaryst *see* **Krzyżak, Adam et al., 2004c:94017**
Rahman, Mezbahur *see* **Heien, Herbert C. et al.**
Renshaw, A. E. (*with* Haberman, Steven) Lee-Carter mortality forecasting with age-specific enhancement. (English summary)
Rissanen, Jorma J. Complexity of simple nonlogarithmic loss functions. (English summary) **2004b:94036**
Ritov, Ya'acov *see* **Bickel, Peter J. et al., (2004b:00013)**
Romo, Juan J. *see* **Pascual, Lorenzo et al.**
Ruiz, Esther *see* **Pascual, Lorenzo et al.**
Ruiz-Medina, M. D. (*with* Angulo, J. M.; Anh, V. V.) Fractional-order regularization and wavelet approximation to the inverse estimation problem for random fields. (English

summary) **2004h:60062**
Rydén, Tobias *see* **Bickel, Peter J. et al.**, (**2004b:00013**)
Sánchez, Ismael Efficient tests for unit roots with prediction errors. (English summary) **2004a:62165**
Sandroni, Alvaro (*with* Smorodinsky, Rann; Vohra, Rakesh V.) Calibration with many checking rules. (English summary) **2004a:62025**
Saracco, Jérôme *see* **Gannoun, Ali et al.**, **2004g:62071**
Schmeidler, David *see* **Gilboa, Itzhak**, **2004b:91032**
Schmidt, Klaus D. *see* **Hess, Klaus Th.**, **2004a:60037**
van Schuppen, Jan H. System theory for system identification. (English summary)
Semerdjiev, Tzvetan *see* **Simeonova, Iliyana**, (**2004j:65007**)
Semoushin, I. V. (*with* Gorokhov, O. Yu.) Computational processes in iterative stochastic control design. (English summary) (*see* **2004j:00012**)
Shih, Yu-Shan (*with* Tsai, Hsin-Wen) Variable selection bias in regression trees with constant fits. (English summary)
Shin, V. I. *see* **Lee, Yong Wan et al.**, **2004f:93130**
Shiner, J. S. *see* **Davison, Matt et al.**
Šimák, Jaroslav *see* **Näther, Wolfgang**, **2004e:60062**
Simeonova, Iliyana (*with* Semerdjiev, Tzvetan) About the specifics of the IMM algorithm design. (English summary) (*see* **2004j:65007**)
Singh, Housila Prasad (*with* Tailor, Rajesh) Predictive estimation of finite population mean in two phase sampling with known coefficient of variation of second auxiliary variable. (English summary)
Skubalska-Rafajłowicz, Ewa *see* **Krzyżak, Adam et al.**, **2004c:94017**
Smith, David Eric (*with* Farmer, J. Doyne; Gillemot, László; Krishnamurthy, Supriya) Statistical theory of the continuous double auction. (English summary) **2004j:91107**
Smorodinsky, Rann *see* **Sandroni, Alvaro et al.**, **2004a:62025**
So, Mike K. P. Bayesian analysis of long memory stochastic volatility models. (English summary) **2004a:62166**
Soverini, Umberto *see* **Diversi, Roberto et al.**, **2004h:93187**
Spinelli, W. *see* **Piroddi, L.**
Spizzichino, Fabio ★ Subjective probability models for lifetimes. **2004c:62003**
Stadie, Andreas Detecting periods in which a time series model fails to predict the observed volatility. (English summary)
Stahlecker, Peter *see* **Arnold, Bernhard F.**, **2004a:62136**
Stein, Michael L. Equivalence of Gaussian measures for some nonstationary random fields. (English summary) **2004k:60147**
Stettner, Łukasz *see* **Bodnar, Rostyslav**, **2004f:93136**
Strang, Gilbert *see* **Persson, Per-Olof**, **2004k:93134**
Svensson, Lars E. O. (*with* Woodford, Michael) Indicator variables for optimal policy under asymmetric information. (English summary)
Tailor, Rajesh *see* **Singh, Housila Prasad**
Tarami, B. (*with* Pourahmadi, Mohsen) Multi-variate t autoregressions: innovations, prediction variances and exact likelihood equations. (English summary) **2004m:62202**
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62M40 Random fields; image analysis

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62M45 Neural nets and related approaches

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62M99 None of the above, but in this section

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62Nxx Survival analysis and censored data

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62N01 Censored data models

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Gjessing, Håkon K. (*with* Aalen, Odd O.; Hjort, Nils Lid) Frailty models based on Lévy processes. (English summary) **2004e:62178**
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Gorfine, Malka Survivor function estimators under group sequential monitoring based on the logrank statistic. (English summary) **2004d:62333**
Gürler, Ülkü Nonparametric bivariate estimation with randomly truncated observations.
Hanson, Timothy (*with* Johnson, Wesley O.) A Bayesian semiparametric AFT model for interval-censored data. (English summary)
Hjort, Nils Lid *see* **Gjessing, Håkon K. et al., 2004e:62178**
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Jiang, Wenxin *see* **Turnbull, Bruce W.**
Jing, Bing-Yi *see* **Qin, Gengsheng, 2004h:62175**
Johnson, Wesley O. *see* **Hanson, Timothy**
Kalbfleisch, John D. *see* **Prentice, Ross L.**
Kim, Choongrak (*with* Park, Byeong U.; Kim, Woo-Chul; Lim, Chiyon) Bezier curve smoothing of the Kaplan-Meier estimator. (English summary) **2004g:62169**
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Kim, Jinheum (*with* Cai, Jianwen) Independence test for bivariate censored data under univariate censorship. (English summary) **2004f:62182**
Kim, Woo-Chul *see* **Kim, Choongrak et al., 2004g:62169**
Kim, Yongdai On the posterior consistency of mixtures of Dirichlet process priors with censored data. (English summary) **2004g:62170**
Kundu, Debasis *see* **Childs, Aaron et al., 2004g:62168**
Lawless, Jerald F. *see* **Cook, Richard J. et al.**
Lee, Ker-Ai *see* **Cook, Richard J. et al.**
Lim, Chiyon *see* **Kim, Choongrak et al., 2004g:62169**
Lin, Chien-Tai (*with* Balakrishnan, Narayanaswamy) Exact prediction intervals for exponential distributions based on doubly type-II censored samples. (English summary)
Liu, Bing Jie *see* **Zhao, Xuan Min, 2004e:62179**
Liu, Ci Hua *see* **Tian, Ting**
Loeys, T. *see* **Goetghebeur, E.**
Louzada Neto, Francisco *see* **Carrasco, Cleber Giugioli**
Lu, Jye-Chyi (*with* Chen, Di[1]; Gan, Nianci) Semi-parametric modelling and likelihood estimation with estimating equations. (English summary) **2004b:62212**
Lu, Yi Qing *see* **Hu, Yu Ping**
Merzbach, Ely *see* **Ivanoff, B. Gail, 2004d:62334**
Mi, Jie *see* **Balakrishnan, Narayanaswamy, 2004d:62331**
Neath, Andrew A. Polya tree distributions for statistical modeling of censored data. (English summary) **2004f:62183**
Nielsen, Søren Feodor Survival analysis with coarsely observed covariates. (English and Catalan summaries)
Oh, Kwangsik *see* **Kim, Daehak et al.**
Ould-Saïd, Elias (*with* Yazourh-Benrabah, Ouafae) Chung-Smirnov property for smoothed distribution function estimator under random censorship. (English and French summaries) **2004m:62208**
Park, Byeong U. *see* **Kim, Choongrak et al., 2004g:62169**
Peña, Edsel A. Classes of fixed-order and adaptive smooth goodness-of-fit tests with discrete right-censored data. (English summary) (*see* **2004i:62010**)
Pérez, C. Iglesias (*with* González-Manteiga, Wenceslao) Bootstrap for the conditional distribution function with truncated and censored data. (English summary) **2004f:62184**
Pons, Odile Estimation in a Cox regression model with a change-point according to a threshold in a covariate. (English summary) **2004c:62195**
Prentice, Ross L. (*with* Kalbfleisch, John D.) Aspects of the analysis of multivariate failure time data. (English and Catalan summaries)
Qin, Gengsheng (*with* Jing, Bing-Yi) Edgeworth expansion in censored linear regression model. (English summary) **2004h:62175**
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Quade, D. *see* **Salama, I. A.**
Raqab, Mohammad Z. p-norm bounds for moments of progressive type II censored order statistics. (English summary) **2004m:62209**
Ren, Jian-Jian Goodness of fit tests with interval censored data. (English summary) **2004a:62177**
Rüschendorf, Ludger *see* **Döhler, Sebastian, 2004d:62332**

Salama, I. A. (*with* Quade, D.) Agreement among censored rankings using Spearman's footrule. (English summary)
Saracco, Jérôme *see* **Gannoun, Ali et al., 2004b:62211**
Sen, Pranab Kumar[1] *see* **Tien, Hsiao-Chuan, 2004d:62336**
Shen, Yu[3] (*with* Cai, Jianwen) Sample size reestimation for clinical trials with censored survival data. (English summary)
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Taneichi, Nobuhiro *see* **Suzukawa, Akio, 2004h:62176**
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Tien, Hsiao-Chuan (*with* Sen, Pranab Kumar[1]) A proportional hazards model for bivariate survival data under interval censoring. (English summary) **2004d:62336**
Tsai, Tzong-Ru *see* **Wu, Shuo-Jye et al., 2004m:62210**
Tsao, Min *see* **Qin, Gengsheng, 2004d:62335**
Turnbull, Bruce W. (*with* Jiang, Wenxin) Indirect inference for survival data. (English and Catalan summaries)
Wang, Ch'ing Yün *see* **Huang, Yang Xin**
Wang, Weiren *see* **Famoye, Felix**
Wu, Hulin *see* **Chen, Jianwei et al.**
Wu, Shuo-Jye (*with* Chang, Chun-Tao; Tsai, Tzong-Ru) Point and interval estimations for the Gompertz distribution under progressive type-II censoring. (English summary) **2004m:62210**
Yazourh-Benrabah, Ouafae *see* **Ould-Saïd, Elias, 2004m:62208**
Zhao, Xuan Min (*with* Liu, Bing Jie) Asymptotic properties of estimators in a partial linear model with random censoring. (Chinese. English and Chinese summaries) **2004e:62179**
Zheng, Gang[1] (*with* Gastwirth, Joseph L.) Fisher information in ordered randomly censored data with applications to characterization problems. (English summary) **2004c:62196**
Zhou, Haibo *see* **Chen, Jianwei et al.**

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Akritas, Michael G. (*with* Van Keilegom, Ingrid) Estimation of bivariate and marginal distributions with censored data. (English summary) **2004d:62337**
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AL-Hussaini, Essam K. (*with* Ateya, Saieed F.) Maximum likelihood estimations under a mixture of truncated type I generalized logistic components model. (English summary)
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Bae, Jongsig (*with* Kim, Sungyeun) The uniform law of large numbers for the Kaplan-Meier integral process. (English summary) **2004c:60078**
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Birmingham, Jolene (*with* Rotnitzky, Andrea; Fitzmaurice, Garrett M.) Pattern-mixture and selection models for analysing longitudinal data with monotone missing patterns. (English summary) **2004a:62178**
Bogaerts, Kris (*with* Lesaffre, Emmanuel) A new, fast algorithm to find the regions of possible support for bivariate interval-censored data. (English summary)
Borges, Wagner *see* **Freitas, Marta Afonso et al.**
Breuils, Christelle *see* **Celeux, Gilles et al.**
Bunea, Cornel (*with* Cooke, Roger Marvin; Lindqvist, Bo Henry) Competing risk perspective on reliability databases. (English summary) **2004k:62228**
Butler, Steve *see* **Miloslavsky, Maja et al.**
Cai, Tianxi (*with* Betensky, Rebecca A.) Hazard regression for interval-censored data with penalized spline. (English and French summaries)
Calle, M. Luz *see* **Gómez, Guadalupe et al.**
Celeux, Gilles (*with* Corset, Franck; Garnero, Marie-Agnès; Breuils, Christelle) Accounting for inspection errors and change in maintenance behaviour. (English summary)
Cha, Young Joon *see* **Cho, Jang Sik**
Chen, Kun[1] (*with* Zhou, Mai[1]) Non-parametric hypothesis testing and confidence intervals with doubly censored data. (English summary) **2004a:62093**
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Cho, Jang Sik (*with* Cha, Young Joon) Estimation of $P(X < Y)$ in bivariate Weibull model with bivariate type I censored data. (English summary)
Cohen, Arthur (*with* Madigan, David; Sackrowitz, Harold B.) Effective directed tests for models with ordered categorical data. (English summary) **2004g:62109**
Cooke, Roger Marvin *see* **Bunea, Cornel et al., 2004k:62228**
Corset, Franck *see* **Celeux, Gilles et al.**
Datta, Somnath (*with* Satten, Glen A.; Datta, Susmita) Estimation of stage occupation probabilities in multistage models. (English summary) (*see* **2004a:62007**)
Datta, Susmita *see* **Datta, Somnath et al., (2004a:62007)**
Dauxois, Jean-Yves (*with* Kirmani, Syed N. U. A.) Testing the proportional odds model under random censoring. (English summary) **2004j:62204**
— Estimating the deviation from exponentiality under random censorship. (English summary) **2004h:62177**
— *see also* **Kirmani, Syed N. U. A., 2004b:62122**
Demétrio, Clarice Garcia Borges *see* **Giolo, Suely Ruiz et al.**
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Döhler, Sebastian Consistent hazard regression estimation by sieved maximum likelihood estimators. (English summary) **2004e:60048**
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Du, Yunling (*with* Akritas, Michael G.; Van Keilegom, Ingrid) Nonparametric analysis of covariance for censored data. (English summary) **2004d:62248**
Dudoit, Sandrine *see* **Molinaro, Annette M. et al.**
Ebrahimi, Nader (*with* Molefe, Daniel; Ying, Zhiliang) Identifiability and censored data. (English summary) **2004h:62178**
— (*with* Molefe, Daniel) Survival function estimation when lifetime and censoring time are dependent. (English summary) **2004f:62185**
Efromovich, Sam On the limit in the equivalence between heteroscedastic regression and filtering model. (English summary) **2004d:62149**
Eggermont, Paul *see* **Acusta, Andre et al., 2004a:62084**
El-Nouty, Charles (*with* Lancar, Rémi) The presmoothed Nelson-Aalen estimator in the competing risk model. (English summary)
Fang, Yi-xin *see* **Xu, Rui-feng, 2004g:62172**
Fitzmaurice, Garrett M. *see* **Birmingham, Jolene et al., 2004a:62178**
Fleming, Thomas R. *see* **Pecková, Monika, 2004i:62173**
Freitas, Marta Afonso (*with* Borges, Wagner; Ho, Linda Lee) A statistical model for shelf life estimation using sensory evaluations scores. (English summary)
Fujikake, Ichiro Estimation of the Gentan probability based on the forest resource table. (Japanese. English and Japanese summaries)
Garnero, Marie-Agnès *see* **Celeux, Gilles et al.**
van de Geer, Sara *see* **Linton, Oliver B. et al., 2004h:62066**
Gentleman, Robert (*with* Vandal, Alain C.) Nonparametric estimation of the bivariate CDF for arbitrarily censored data. (English and French summaries) **2004b:62090**
Giolo, Suely Ruiz (*with* Henderson, Robin; Demétrio, Clarice Garcia Borges) A criterion for selecting Nelore bulls using survival models. (Portuguese. English and Portuguese summaries)
Gómez, Guadalupe (*with* Calle, M. Luz; Oller, Ramon) Frequentist and Bayesian approaches for interval-censored data.
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Handa, B. R. *see* **Kambo, N. S.**
Henderson, Robin *see* **Giolo, Suely Ruiz et al.**
Ho, Linda Lee *see* **Freitas, Marta Afonso et al.**
Hollander, Myles (*with* Laird, Glen; Song, Kai-Sheng) Nonparametric inference for the proportionality function in the random censorship model. (English summary) **2004h:62179**
Hossain, Anwar M. *see* **Wang, Yao**[2] **et al., 2004f:62189**
Huang, Wên T'ao (*with* Lin, Yu-Pin) Bayesian sampling plans for exponential distribution based on uniform random censored data. (English summary) **2004j:62208**
Hung, Wen-Liang *see* **Wu, Jong-Wuu et al., 2004i:62056**
Ibrahim, Joseph G. *see* **Tadesse, Mahlet G. et al.**
Jamshidian, Mortaza *see* **Zhang, Ying**[6]
Jensen, Uwe[1] (*with* Narr, Andreas) An estimator for the survival function on the basis of observable censoring times. (English summary) **2004g:62171**
John, A. M. (*with* Johnson, Richard; Watkins, A. J.) On finite sums of powers of reciprocals. (English summary) **2004d:05016**
Johnson, Brent A. (*with* Tsiatis, Anastasios A.) Estimating mean response as a function of treatment duration in an observational study, where duration may be informatively censored. (English and French summaries)
Johnson, Richard *see* **John, A. M. et al., 2004d:05016**
Jonker, M. A. Maximum likelihood estimation of life-span based on censored and passively registered historical data. (English summary) **2004d:62339**
Kalamatianou, Aglaia G. (*with* McClean, Sally) The perpetual student: modeling duration of undergraduate studies based on lifetime-type educational data. (English summary)
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Kannan, N. *see* **Balakrishnan, Narayanaswamy et al.**
Kao, Chung-Siung An asymptotic measure of accuracy effect from censorship in parametric estimation. (English summary) **2004c:62061**
Keleş, Sündüz *see* **Miloslavsky, Maja et al.**
Kim, Jong Sung[2] Maximum likelihood estimation for the proportional hazards model with partly interval-censored data. (English summary) **2004d:62097**
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Kim, Sungyeun *see* **Bae, Jongsig, 2004c:60078**
Kim, Yongdai Semiparametric Bayesian regression model for multiple event time data. (English summary) **2004a:62023**
— (*with* Lee, Jaeyong) Bayesian analysis of proportional hazard models. (English summary) **2004k:62026**
Kim, Young-Ju *see* **Gu, Chong, 2004a:62087**
Kirmani, Syed N. U. A. (*with* Dauxois, Jean-Yves) Testing relative risk under random censoring. (English summary) **2004b:62122**
— *see also* **Dauxois, Jean-Yves, 2004j:62204**
van der Laan, Mark J. *see* **Miloslavsky, Maja et al.** *and* **Molinaro, Annette M. et al.**

Laird, Glen *see* **Hollander, Myles et al., 2004h:62179**
Laird, Nan *see* **Slasor, Peter**
Lancar, Rémi *see* **El-Nouty, Charles**
LaRiccia, Vincent *see* **Acusta, Andre et al., 2004a:62084**
Lee, Jaeyong *see* **Kim, Yongdai, 2004k:62026**
Lemdani, Mohamed (*with* Ould-Saïd, Elias) $\mathscr{L}_1$-deficiency of the Kaplan-Meier estimator. (English summary) **2004d:62140**
— *see also* **Pons, Odile, 2004c:62206**
Lesaffre, Emmanuel *see* **Bogaerts, Kris**
Li, He-cheng *see* **Liu, Rui-yuan, 2004a:62185**
Li, Linxiong Linear regression analysis with observations subject to interval censoring. (English summary) **2004m:62219**
Li, Pai-Ling *see* **Wu, Jong-Wuu, 2004a:62180**
Lin, Chien-Tai *see* **Balakrishnan, Narayanaswamy et al.**
Lin, Yu-Pin *see* **Huang, Wên T'ao, 2004j:62208**
Lindqvist, Bo Henry *see* **Bunea, Cornel et al., 2004k:62228**
Linton, Oliver B. (*with* Nielsen, Jens Perch; van de Geer, Sara) Estimating multiplicative and additive hazard functions by kernel methods. (English summary) **2004h:62066**
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Lü, Jian Hua *see* **Wu, Qi Guang, 2004d:62357**
Madigan, David *see* **Cohen, Arthur et al., 2004g:62109**
Mazucheli, Josmar *see* **Louzada Neto, Francisco et al., 2004i:62003**
McClean, Sally *see* **Kalamatianou, Aglaia G.**
Mi, Jie (*with* Naranjo, Arlene) Inferences about the scale parameter of the gamma distribution based on data mixed from censoring and grouping. (English summary) **2004c:62064**
Miloslavsky, Maja (*with* Keleş, Sündüz; van der Laan, Mark J.; Butler, Steve) Recurrent events analysis in the presence of time-dependent covariates and dependent censoring. (English summary)
Molefe, Daniel *see* **Ebrahimi, Nader et al., 2004f:62185** *and* **2004h:62178**
Molinaro, Annette M. (*with* Dudoit, Sandrine; van der Laan, Mark J.) Tree-based multivariate regression and density estimation with right-censored data. (English summary)
Mutter, George L. *see* **Tadesse, Mahlet G. et al.**
Na, Jong-Hwa *see* **Park, Hyo-Il, 2004m:62109**
Naranjo, Arlene *see* **Mi, Jie, 2004c:62064**
Narr, Andreas *see* **Jensen, Uwe[1], 2004g:62171**
Nielsen, Jens Perch *see* **Linton, Oliver B. et al., 2004h:62066**
Oller, Ramon *see* **Gómez, Guadalupe et al.**
O'Quigley, John Khmaladze-type graphical evaluation of the proportional hazards assumption. (English summary) **2004m:62016**
Ould-Saïd, Elias *see* **Lemdani, Mohamed, 2004d:62140**
Park, Hyo-Il On the empirical mean life processes for right censored data. (English summary) **2004d:62182**
— (*with* Na, Jong-Hwa) Nonparametric one-sided tests for multivariate and right censored data. (English summary) **2004m:62109**
Park, Jinho Optimal global rate of convergence in nonparametric regression with left-truncated and right-censored data. (English summary) **2004m:62089**
Park, Sangun *see* **Zheng, Gang[1]**
Pecková, Monika (*with* Fleming, Thomas R.) Adaptive test for testing the difference in survival distributions. (English summary) **2004i:62173**
Pokorny, Kian Point estimation and confidence bounds with few censored data points. (English summary)
Pons, Odile (*with* Lemdani, Mohamed) Estimation and test in long-term survival mixture models. (English summary) **2004c:62206**
Rao, M. Bhaskara *see* **Zhang, Haimeng**
Rao, Pejaver Vishwamber Testing equality of survival functions with bivariate censored data: a review.
Ren, Jian-Jian Regression M-estimators with non-i.i.d. doubly censored data. (English summary) **2004h:62125**
Rotnitzky, Andrea *see* **Birmingham, Jolene et al., 2004a:62178**
Rüschendorf, Ludger *see* **Döhler, Sebastian, 2004f:62091**
Sabapathi, Durai (*with* Thavaneswaran, A.) Nonparametric estimation with censored observations. (English summary) **2004k:62111**
Sackrowitz, Harold B. *see* **Cohen, Arthur et al., 2004g:62109**
Sasieni, Peter D. *see* **Winnett, Angela, 2004d:62144**
Satten, Glen A. *see* **Datta, Somnath et al., (2004a:62007)**
Sen, Ananda *see* **Basu, Sanjib[2] et al., 2004a:62059**
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Slud, E. V. (*with* Vonta, Filia) Consistency of the NPML estimator in the right-censored transformation model. (English summary) **2004j:62075**
Song, Kai-Sheng *see* **Hollander, Myles et al., 2004h:62179**
Song, Shuguang Estimation with univariate "mixed case" interval censored data. (English summary) **2004k:62112**
Suzukawa, Akio Asymptotic properties of Aalen-Johansen integrals for competing risks data. (English summary) **2004b:62222**
Tadesse, Mahlet G. (*with* Ibrahim, Joseph G.; Mutter, George L.) Identification of differentially expressed genes in high-density oligonucleotide arrays accounting for the quantification limits of the technology. (English and French summaries)
Thavaneswaran, A. *see* **Sabapathi, Durai, 2004k:62111**
Tian, Lu[2] (*with* Wang, Wei; Wei, L. J.) Estimating predictors for long- or short-term survivors. (English and French summaries)
Trione, Susana Elena On the Laplace transform of distributions of the form $T(P \pm i0, \lambda)$. (English summary) **2004k:46061**
Tsai, Chih-Hui *see* **Wu, Jong-Wuu et al., 2004i:62056**
Tsiatis, Anastasios A. *see* **Johnson, Brent A.**
Vandal, Alain C. *see* **Gentleman, Robert, 2004b:62090**
Van Keilegom, Ingrid *see* **Du, Yunling et al., 2004d:62248** *and* **Akritas, Michael G., 2004d:62337**
Vonta, Filia *see* **Slud, E. V., 2004j:62075**
Wang, Mei-Cheng *see* **Chiang, Chin-Tsang, 2004m:62211**
Wang, Wei *see* **Tian, Lu[2] et al.**
Wang, Yao[2] (*with* Hossain, Anwar M.; Zimmer, William J.) Monotone log-odds rate distributions in reliability analysis. (English summary) **2004f:62189**
Watkins, A. J. *see* **John, A. M. et al., 2004d:05016**
Wei, L. J. *see* **Tian, Lu[2] et al.**
Wei, Li Li (*with* Zhang, Wen Xiu) Testing fuzzy hypotheses for the parameter of exponential distribution under type II-censoring. (Chinese. English and Chinese summaries) **2004a:62181**
Winnett, Angela (*with* Sasieni, Peter D.) Iterated residuals and time-varying covariate effects in Cox regression. (English summary) **2004d:62144**
Wong, George Y. C. *see* **Yu, Qiqing, 2004b:62101**
Wu, Jong-Wuu (*with* Li, Pai-Ling) Optimal parameter estimation of the extreme value distribution based on a type II censored sample. (English summary) **2004a:62180**
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Wu, Qi Guang (*with* Lü, Jian Hua) Reliability sampling inspection plans for exponential populations with type I censoring. (Chinese. English and Chinese summaries) **2004d:62357**
Wu, S. J. S. *see* **Balakrishnan, Narayanaswamy et al.**
Xu, Rui-feng (*with* Fang, Yi-xin) Distribution approximation in censored regression model by randomly weighting bootstrap. (English and Chinese summaries) **2004g:62172**
Xue, Liu Gen Approximation rates of the error distribution of wavelet estimators of a density function under censorship. (English summary) **2004h:62076**
Ying, Zhiliang *see* **Ebrahimi, Nader et al., 2004h:62178**
Yu, Qiqing (*with* Wong, George Y. C.) Semi-parametric MLE in simple linear regression analysis with interval-censored data. (English summary) **2004b:62101**
Yuen, Kam C. *see* **Chen, Min[4] et al., 2004c:62198**
Zhang, Haimeng (*with* Rao, M. Bhaskara) On generalized maximum likelihood estimation in the proportional hazards model with partially informative censoring. (English summary)
Zhang, Wen Xiu *see* **Wei, Li Li, 2004a:62181**
Zhang, Ying[6] (*with* Jamshidian, Mortaza) On algorithms for the nonparametric maximum likelihood estimator of the failure function with censored data. (English summary)
Zhao, Lin Cheng Linear hypothesis testing in censored regression models. (English summary) **2004k:62131**
Zheng, Gang[1] (*with* Park, Sangun) On the Fisher information in multiply censored and progressively censored data. (English summary)
Zheng, Zukang Improvement of life table method. (English summary) **2004a:62189**
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62N02 Estimation

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Items with secondary classifications in 62N02

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Bordes, Laurent Non-parametric estimation under progressive censoring. (English summary) **2004h:62174**
Botha, M. *see* **Yadavalli, V. S. S. et al.**
Butler, Steve *see* **Miloslavsky, Maja et al.**
Cai, Jianwen *see* **Shen, Yu[3]**
Cha, Young Joon *see* **Cho, Jang Sik**
Chandrasekar, B. *see* **Childs, Aaron et al., 2004g:62168**
Chandrasekhar, P. *see* **Yadavalli, V. S. S. et al.**
Chang, Chun-Tao *see* **Wu, Shuo-Jye et al., 2004m:62210**
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Goto, Masashi *see* **Sugimoto, Tomoyuki, 2004k:62242**
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Jamshidian, Mortaza *see* **Zhang, Ying[6]**
Jiang, Wenxin *see* **Turnbull, Bruce W.**
Joubert, J. W. *see* **Claasen, S. J. et al.**
Kalbfleisch, John D. *see* **Prentice, Ross L.**
Kamakura, Toshinari *see* **Nagatsuka, Hideki, 2004k:62067**
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— *see also* **Childs, Aaron et al., 2004g:62168**
van der Laan, Mark J. *see* **Miloslavsky, Maja et al.**
Lai, Kunjung *see* **Chen, Huann-Sheng et al., 2004k:62229**
Lancar, Rémi *see* **El-Nouty, Charles**
LaRiccia, Vincent *see* **Acusta, Andre et al., 2004a:62084**
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Lawless, Jerald F. *see* **Cook, Richard J. et al.**
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Lee, Sokbae *see* **Horowitz, Joel L., 2004m:62216**
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Liao, Qiming *see* **Sun, Jianguo et al.**
Lim, Chiyon *see* **Kim, Choongrak et al., 2004g:62169**
Lin, Danyu *see* **Hu, Chengcheng, 2004m:62217**
Lin, Guo Hua *see* **Pearn, Wen-Lea et al., 2004g:62178**
Lin, Xihong *see* **Li, Yi[8], 2004a:62184**
Lingham, Rama T. *see* **Basu, Sanjib[2], 2004b:62214**
Lipsitz, Stuart R. *see* **Herring, Amy H. et al.**
Liu, Bing Jie *see* **Zhao, Xuan Min, 2004e:62179**
Liu, Ci Hua *see* **Tian, Ting**
Liu, Rongguan (*with* Fei, He Liang) Estimation of the parameters for Musa-Okumoto and inverse linear models in software reliability. (English and Chinese summaries) **2004a:62063**
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Merzbach, Ely *see* **Ivanoff, B. Gail, 2004d:62334**
Mesbah, Mounir *see* **Feddag, Mohand-Larbi et al., 2004d:62087**
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Nagatsuka, Hideki (*with* Kamakura, Toshinari) Parameter estimation of the shape parameter of the Castillo-Hadi model. (English summary) **2004k:62067**
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Peng, Liang *see* **Lu, Jye-Chyi, 2004g:62103**
Pérez, C. Iglesias (*with* González-Manteiga, Wenceslao) Bootstrap for the conditional distribution function with truncated and censored data. (English summary) **2004f:62184**
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Prentice, Ross L. (*with* Kalbfleisch, John D.) Aspects of the analysis of multivariate failure time data. (English and Catalan summaries)
Qian, Lianfen (*with* Correa, José A.) Estimation of Weibull parameters for grouped data with competing risks. (English summary) **2004b:62069**
Ramanathan, T. V. (*with* Dharmadhikari, A. D.; Abraham, Bovas) Nonparametric capability indices. (English summary) **2004e:62184**
Ren, Jian-Jian Regression M-estimators with non-i.i.d. doubly censored data. (English summary) **2004h:62125**
Richardson, Barbra A. *see* **Meier, Amalia S. et al.**
Rüschendorf, Ludger *see* **Döhler, Sebastian, 2004d:62332**
Samuelsen, Sven Ove Exact inference in the proportional hazard model: possibilities and limitations. (English summary)
Saracco, Jérôme *see* **Gannoun, Ali et al., 2004b:62211**
Sarhan, Ammar M. Parameter estimations in linear failure rate model using masked data. (English summary) **2004m:62064**
Sasieni, Peter D. *see* **Winnett, Angela, 2004d:62144**
Satten, Glen A. *see* **Datta, Somnath et al., (2004a:62007)**
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Sethuraman, Jayaram *see* **Hollander, Myles**
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62N03 Testing

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Hosmer, David W., Jr. *see* **May, Susanne**
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Gnant, Michael *see* **Heinze, Georg et al.**
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Ying, Zhiliang *see* **Chen, Huann-Sheng et al., 2004k:62229**
Zhou, Mai[1] *see* **Chen, Kun[1], 2004a:62093**

62N05 Reliability and life testing [see also 90B25]

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Alwasel, Ibrahim A. *see* **Sarhan, Ammar M. et al.**
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(Aven, Terje) *see* **Johnson, Valen E. et al.**, (**2004g:62009**)
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Bagchi, Srijib Bhusan *see* **Mukhopadhyay, Anis Chandra et al.**
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Bekker, A. V. *see* **Yadavalli, V. S. S. et al.**
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Bikelis, Algimantas *see* **Bagdonavičius, Vilijandas et al.**, **2004j:62206**
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Botha, M. *see* **Yadavalli, V. S. S. et al.**
Bradley, David M. (*with* Gupta, Ramesh C.) Limiting behaviour of the mean residual life. (English summary) **2004b:62215**
— *see also* **Gupta, Ramesh C.**, **2004e:62181**
Brookmeyer, Ronald S. *see* **Hwang, Wei-Ting** *and* **Frangakis, Constantine E. et al.**
Bryant, John Lowrie *see* **Dignam, James J. et al.**
Bunea, Cornel (*with* Cooke, Roger Marvin; Lindqvist, Bo Henry) Competing risk perspective on reliability databases. (English summary) **2004k:62228**
Burnett, Richard T. *see* **Ma, Renjun et al.**, **2004j:62209** *and* (**2004k:62018**)
Cai, Jianwen *see* **Yin, Guosheng et al.**, **2004f:62190**
Cai, Xiao-Qiang (*with* Sun, Xiaoqian; Zhou, Xian) Stochastic scheduling with preemptive-repeat machine breakdowns to minimize the expected weighted flow time. (English summary) **2004j:62207**
Calle, M. Luz *see* **Gómez, Guadalupe et al.**
Calzada, Maria E. (*with* Scariano, Stephen M.; Chen, Ge Mai) Computing average run lengths for the MaxEWMA chart. (English summary)
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Campos y Sáez, Clemente A. *see* **Badía Blasco, F. G. et al.**, **2004j:62205**
Capizzi, Giovanna (*with* Masarotto, Guido) An adaptive exponentially weighted moving average control chart. (English summary)
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Celant, Giorgio Extrapolation and optimal designs for accelerated runs. (English and French summaries)
Cha, Young Joon *see* **Cho, Jang Sik**
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Chan, Lai Kow (*with* Mak, T. K.; Tao, B.) Continuity adjustment for control charts for attributes. (English summary) **2004h:62182**
— (*with* Cui, Heng-jian) Skewness correction $\overline{X}$ and R charts for skewed distributions. (English summary)
Chandrasekhar, P. *see* **Yadavalli, V. S. S. et al.**
Chang, Chung-Shang *see* **Pearn, Wen-Lea et al.**, **2004g:62178**
Chang, Yung-Ming *see* **Fu, James C. et al.**, **2004m:62214**
Chattopadhyay, Gaurangadeb *see* **Pal, Manisha et al.**, **2004h:62184**
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Chen, Kuen-Suan *see* **Lin, Pi Chuan et al.**, **2004i:62177**
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Claasen, S. J. (*with* Joubert, J. W.; Yadavalli, V. S. S.) Interval estimation of the availability of a two-unit standby system with non-instantaneous switch-over and 'dead time'. (English summary)
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Cooke, Roger Marvin *see* **Bunea, Cornel et al.**, **2004k:62228**
Cordeiro, Gauss Moutinho *see* **Montenegro, L. C. C. et al.**
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Cruz, F. R. B. *see* **Montenegro, L. C. C. et al.**
Cui, Heng-jian *see* **Chan, Lai Kow**
Cui, Sufang (*with* Sun, Yanqing) Checking for the gamma frailty distribution under the marginal proportional hazards frailty model. (English summary) **2004k:62230**
Dagg, Richard *see* **Newby, Martin**, (**2004i:62010**)
D'Agostino, R. B. (*with* Nam, Byung-Ho) Evaluation of the performance of survival analysis models: discrimination and calibration measures.
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Deepa, O. S. *see* **Suresh, K. K.**
De Laurentiis, M. *see* **Eleuteri, A. et al.**
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— *see also* **Ramanathan, T. V. et al.**, **2004e:62184**
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2004k:62232
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Ebrahimi, Nader (*with* Soofi, Ehsan S.) Information functions for reliability. (English summary)
El-Bassiouny, Ahmed H. (*with* Sarhan, Ammar M.; Al-Garian, M.) Testing exponentiality against NBUFR (NWUFR). (English summary) **2004k:62233**
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El-Gohary, Awad I. *see* **Sarhan, Ammar M. et al.**
El-Melihy, Ghada Youssef *see* **Mokhlis, N. A. et al.**
El-Nouty, Charles (*with* Lancar, Rémi) The presmoothed Nelson-Aalen estimator in the competing risk model. (English summary)
El-Sayed, Elham M. Connected $(1,2)$ or $(2,1)$-out-of-$(N,2)$: F system with a single repair. (English summary)
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Enăchescu, Cornelia (*with* Enăchescu, Denis) Estimation of $\Pr(Y < X)$ in case of the Luceno distribution. (English summary) **2004b:62217**
— *see also* **Enăchescu, Denis**, **2004g:62175**
Enăchescu, Denis (*with* Enăchescu, Cornelia) Change-point reliability models and Occam's razor. (English summary) **2004g:62175**
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Escobar, Luis A. *see* **Nair, Vijay N. et al.**
Fan, Juanjuan *see* **Su, Xiaogang**
Fieller, N. R. J. *see* **Rasekh, A. R.**, **2004d:62354**
Finkel'shteĭn, M. S. Modelling spatial survival with external covariates. (English summary)
Flournoy, Nancy *see* **Sun, Jianguo et al.**, **2004m:62222**
Foote, Bobbie Leon (*with* Glen, Andrew G.) Determining the contribution of new components added in parallel to a parallel system. (English summary) **2004c:62203**
Frangakis, Constantine E. (*with* Brookmeyer, Ronald S.; Varadhan, Ravi; Safaeian, Mahboobeh; Vlahov, David; Strathdee, Steffanie A.) Methodology for evaluating a partially controlled longitudinal treatment using principal stratification, with application to a needle exchange program. (English summary)
Franz, Jürgen (*with* Abdel-Aty, Yahia) Bayes inference problems in failure-repair processes. (English summary)
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Frostig, Esther Comparison of maintenance policies with monotone failure rate distributions. (English summary) **2004a:62182**
Fu, Chong Yau (*with* Liu, Shih Hua) Using survival analysis in preterm birth study. (English summary) (*see* **2004k:62018**)
Fu, James C. (*with* Shmueli, Galit; Chang, Yung-Ming) A unified Markov chain approach for computing the run length distribution in control charts with simple or compound rules. (English summary) **2004m:62214**
Galimberti, Giuliano Hazard regression with time-dependent covariates: a proposal based on local maximum likelihood. (Italian. English and Italian summaries)
Gandy, Axel (*with* Jensen, Uwe[1]) A non-parametric approach to software reliability. (English summary)
Gao, Tangan *see* **Ebneshahrashoob, Morteza et al.**
Gaudoin, Olivier *see* **Doyen, Laurent**, (**2004i:62010**)
Ge, Guang Ping (*with* Liu, Li Xi) Optimum constant-stress accelerated life tests with competing causes of failure under exponential distribution. (Chinese. English and Chinese summaries) **2004c:62204**
Ghilagaber, Gebrenegus Simultaneous log-linear modelling of competing risks. (English summary)
Ghosh, Debashis (*with* Lin, Danyu) Semiparametric analysis of recurrent events data in the presence of dependent censoring. (English and French summaries)
Giglio, Beatrice (*with* Wynn, Henry P.) Alexander duality and moments in reliability modelling. (English summary)
Gjessing, Håkon K. *see* **Aalen, Odd O.**, (**2004i:62010**)
Glen, Andrew G. *see* **Foote, Bobbie Leon**, **2004c:62203**
Gnant, Michael *see* **Heinze, Georg et al.**
Goh, T. N. *see* **Tang, Yong et al.**, **2004d:62356** *and* **Ho, S. L. et al.**
Goldsman, David M. *see* **Alexopoulos, C. et al.**
Gómez, Guadalupe (*with* Calle, M. Luz; Oller, Ramon) Frequentist and Bayesian approaches for interval-censored data.
González, I. M. (*with* Viles, E.) Semi-economic design of $\overline{X}$-control charts assuming gamma distribution. (English summary) **2004d:62348**
Goševa-Popstojanova, K. (*with* Trivedi, Kishor S.) Architecture-based approaches to software reliability prediction. (English summary)
Goto, Masashi *see* **Sugimoto, Tomoyuki**, **2004k:62242**
Govindaraju, Kondaswamy *see* **Zhang, Lingyun et al.**
Grambsch, Patricia M. *see* **Therneau, Terry M. et al.**, **2004a:62187**
Graves, Todd L. *see* **Johnson, Valen E. et al.**, (**2004g:62009**)
Gribok, Andrei V. (*with* Urmanov, Aleksey M.; Hines, J. Wesley; Uhrig, Robert E.) Use of kernel based techniques for sensor validation in nuclear power plants. (English summary) (*see* **2004j:62012**)
Gupta, Praveen (*with* Saxena, Manoj) Stochastic behaviour of a system with two independent protection devices. (English summary)
Gupta, Ramesh C. (*with* Bradley, David M.) Representing the mean residual life in terms of the failure rate. (English summary) **2004e:62181**
— *see also* **Bradley, David M.**, **2004b:62215**
Hajlaoui, Mekki (*with* Limam, Mohamed M. T.) Economical quality control with measurement error. (English summary)
Hamada, Michael S. *see* **Johnson, Valen E. et al.**, (**2004g:62009**) *and* **Nair, Vijay N. et al.**
Han, Ming Estimation of reliability based on zero-failure data. (English and Chinese summaries) **2004e:62182**
Hannigan, A. (*with* Barry, Daniel; O'Mullane, D. M.) Survival analysis: a new approach to analysing caries clinical trials. (English summary)
Haq. M. Safiul *see* **Khan, Hafiz M. R. et al.**
Härkänen, Tommi (*with* Hausen, Hannu; Virtanen, Jorma I.; Arjas, Elja) A non-parametric frailty model for temporally clustered multivariate failure times. (English summary)
Hausen, Hannu *see* **Härkänen, Tommi et al.**
Hawkins, Douglas M. *see* **Qiu, Peihua**, **2004d:62353**
He, Chong Z. Bayesian modeling of age-specific survival in bird nesting studies under irregular visits. (English and French summaries) **2004i:62176**
He, Wenqing (*with* Lawless, Jerald F.) Flexible maximum likelihood methods for bivariate proportional hazards models. (English and French summaries)
Hedayat, A. S. (*with* Stufken, John) Compound orthogonal arrays and dispersion effects. (English summary) (*see* **2004j:62011**)
Heinze, Georg (*with* Gnant, Michael; Schemper, Michael) Exact log-rank tests for unequal follow-up. (English and French summaries)
Heller, Glenn Incorporating follow-up time in M-estimation for survival data. (English summary) **2004m:62215**
Hendi, M. M. I. *see* **Al-Ruzaiza, A. S. et al.**, **2004d:62343**
Herberts, Tina (*with* Jensen, Uwe[1]) Rates of convergence of estimated change points with applications in reliability. (English summary) **2004d:62349**
Herring, Amy H. *see* **Dunson, David B.**
Hines, J. Wesley *see* **Gribok, Andrei V. et al.**, (**2004j:62012**)
Ho, Linda Lee One-sided control charts for non-normal processes. (English summary) **2004d:62350**
— Statistical inference from Boyles' capability index. (English summary)
Ho, S. L. (*with* Xie, Min[1]; Goh, T. N.) A study of the connectionist models for software reliability prediction. (English summary)
Hollander, Myles (*with* Sethuraman, Jayaram) Nonparametric inference for repair models. (English summary)
— (*with* Sethuraman, Jayaram) Nonparametric methods for repair models.
Horowitz, Joel L. (*with* Lee, Sokbae) Semiparametric estimation of a panel data proportional hazards model with fixed effects. (English summary) **2004m:62216**
Horváth, Alice (*with* Prékopa, András) Lower and upper bounds for the expected time to failure of systems. (Hungarian. English and Hungarian summaries)
Hossain, Anwar M. *see* **Wang, Yao[2] et al.**, **2004f:62189**
Hryniewicz, Olgierd Statistical decisions in quality audits—a possibilistic interpretation of single statistical tests. (English summary)
Hsu, Yu-Sheng *see* **Chen, Sy-Mien et al.**, **2004b:62216** *and* **2004c:62202**
Hu, Chengcheng (*with* Lin, Danyu) Semiparametric failure time regression with replicates of mismeasured covariates. (English summary) **2004m:62217**
Huang, Wên T'ao (*with* Lin, Yu-Pin) Bayesian sampling plans for exponential distribution based on uniform random censored data. (English summary) **2004j:62208**
Huang, Yijian (*with* Chen, Ying Qing) Marginal regression of gaps between recurrent events. (English summary)
Hughes, James P. *see* **Meier, Amalia S. et al.**
Huzurbazar, Aparna V. Modeling time-to-event data using flowgraph models. (English summary) (*see* **2004a:62006**)
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Hwang, Wei-Ting (*with* Brookmeyer, Ronald S.) Design of panel studies for disease progression with multiple stages. (English summary)
Ibrahim, Joseph G. *see* **Sinha, Debajyoti et al.**, **2004g:62180**
Igaki, N. *see* **Sandoh, H.**
Imaizumi, M. (*with* Yasui, Kazumi; Nakagawa, Toshio) Optimal reset number of a microprocessor system with network processing. (English summary)
Ingman, Dov *see* **Zeifman, Michael I.**
Islam, M. Ataharul A birth-death process approach to constructing multistate life tables. (English summary)
Iwersen, Jørgen *see* **Thyregod, Poul et al.**
Jain, Madhu (*with* Maheshwari, Sandhya) Transient analysis of a redundant system with additional repairmen. (English summary)
Janssen, Jacques *see* **Blasi, Alessandro et al.**
Jayanthi, S. *see* **Sivasamy, R.**
Jensen, Uwe[1] *see* **Herberts, Tina**, **2004d:62349** *and* **Gandy, Axel**
Jewell, Nicholas P. (*with* van der Laan, Mark J.) Current status data: review, recent developments and open problems.
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Jia, Xisheng (*with* Christer, A. H.) A periodic testing model for a preparedness system with a defective state. (English summary) **2004f:62187**
Jiang, Ren Yan (*with* Murthy, D. N. Prabhakar) Study of n-fold Weibull competing risk model. (English summary) **2004k:62234**
Jiang, W. *see* **Alexopoulos, C. et al.**
Johnson, Valen E. (*with* Graves, Todd L.; Hamada, Michael S.; Reese, C. Shane) A hierarchical model for estimating the reliability of complex systems. (English summary) (*see* **2004g:62009**)
Joubert, J. W. *see* **Claasen, S. J. et al.**
Jung, Gi Mun Optimal replacement policy for a repairable system with combination warranty. (Korean. English and Korean summaries)
Kahle, Waltraud (*with* Love, Charles E.) Modeling the influence of maintenance actions. (English summary) (*see* **2004i:62010**)
— (*with* Wendt, Heide) On a cumulative damage process and resulting first passage times. (English summary)
Kaio, Naoto *see* **Dohi, Tadashi et al.**, **2004k:62232**

Kaistha, Nitin (*with* Moore, Charles F.; Leitnaker, Mary G.) A statistical process control framework for the characterization of variation in batch profiles. (English summary)
Kalagonda, A. A. (*with* Kulkarni, S. R.) Diagnosis of multivariate control chart signal based on dummy variable regression technique. (English summary)
Kalgonda, A. A. (*with* Kulkarni, S. R.) Multivariate quality control chart for autocorrelated processes. (English summary)
Kallenberg, Wilbert C. M. *see* **Albers, Willem**
Kang, Sang Gil *see* **Kim, Dal Ho et al., 2004f:62188** *and* **Cho, Jang Sik et al.**
Kao, Ming Shu *see* **Nembhard, Harriet Black**
Kapur, P. K. (*with* Bardhan, A. K.; Shatnawi, Omar) Why software reliability growth modelling should define errors of different severity. (English summary)
Karim, Md. Rezaul (*with* Suzuki, Kazuyuki) Analysis of marginal count failure data under different environmental conditions. (English summary)
Kazakevičius, Vytautas *see* **Bagdonavičius, Vilijandas et al., 2004j:62206**
Ke, Jun Bin Analysis of structural reliability for an exponential-stationary binomial process model. (Chinese. English and Chinese summaries)
Keller-McNulty, Sallie A. (*with* Wilson, Alyson G.) Reliability for the 21st century. (English summary) (*see* **2004i:62010**)
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Kim, Dal Ho (*with* Kang, Sang Gil; Lee, Woo Dong) Noninformative priors for the power law process. (English summary) **2004f:62188**
Kim, Jeongbae *see* **Apley, Daniel W.**
Kim, Jinheum *see* **Yin, Guosheng et al., 2004f:62190**
Kim, Jong Sung[2] Efficient estimation for the proportional hazards model with left-truncated and "case 1" interval-censored data. (English summary) **2004a:62183**
Kimura, Mitsuhiro (*with* Yamada, Shigeru) A hidden-Markov estimation method for mean-shift detection of fraction defective in production process control. (English summary) **2004m:62218**
Klebanov, Lev B. (*with* Székely, Gábor J.; Steele, John A.) The limit theorem of hierarchical structures. (English summary) **2004d:62351**
Klein, John P. (*with* Wu, Jing-Tao) Discretizing a continuous covariate in survival studies.
Knoth, Sven EWMA schemes with nonhomogeneous transition kernels. (English summary) **2004g:62176**
Ko, Jeong Hwan *see* **Cho, Jang Sik et al.**
Kotz, Samuel *see* **Nadarajah, Saralees**
Krewski, Daniel *see* **Ma, Renjun et al., 2004j:62209**
Kulathinal, S. B. *see* **Dewan, Isha et al.**
Kulkarni, S. R. *see* **Kalagonda, A. A.** *and* **Kalgonda, A. A.**
Kumbhar, R. R. (*with* Shirke, D. T.) Tolerance limits for lifetime distribution of k-unit parallel system. (English summary)
Kuo, Lynn *see* **Chiang, I. Robert**
Kusukawa, Etsuko *see* **Ohta, Hiroshi[1]**
Kvaløy, Jan Terje (*with* Lindqvist, Bo Henry) A class of tests for renewal process versus monotonic and nonmonotonic trend in repairable systems data. (English summary) (*see* **2004i:62010**)
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van der Laan, Mark J. *see* **Jewell, Nicholas P.**
Ladany, Shaul P. (*with* Shore, Haim) Optimal warranty period when sale-price increases with the lower specification limit. (English summary)
Lai, Chin-Diew *see* **Zhang, Lingyun et al.**
Lai, Kunjung *see* **Chen, Huann-Sheng et al., 2004k:62229**
Lancar, Rémi *see* **El-Nouty, Charles**
Langseth, Helge (*with* Lindqvist, Bo Henry) A maintenance model for components exposed to several failure mechanisms and imperfect repair. (English summary) (*see* **2004i:62010**)
Larsen, Klaus Joint analysis of time-to-event and multiple binary indicators of latent classes. (English and French summaries)
Lawless, Jerald F. *see* **He, Wenqing**
Le, Chap T. Statistical methods for the comparison of crossing survival curves.
Lee, Hyun Cheol *see* **Apley, Daniel W.**
Lee, Jae June (*with* Ahn, Mihye) Influence of special causes on stochastic process adjustment. (English summary)
Lee, Mei-Ling Ting (*with* Whitmore, George A.) First hitting time models for lifetime data.
Lee, Sokbae *see* **Horowitz, Joel L., 2004m:62216**
Lee, Woo Dong *see* **Kim, Dal Ho et al., 2004f:62188**
Lehman, Jeffrey S. (*with* Santner, Thomas J.; Notz, William I.) Designing computer experiments to determine robust control variables. (English summary)
Leitnaker, Mary G. *see* **Kaistha, Nitin et al.**
Lemdani, Mohamed *see* **Pons, Odile, 2004c:62206**
León, Larry F. (*with* Tsai, Chih-Ling) Functional form diagnostics for Cox's proportional hazards model. (English and French summaries)
Li, Guo Ying[1] *see* **Yan, Xia et al., 2004k:62243**
Li, He-cheng *see* **Liu, Rui-yuan, 2004a:62185**
Li, Linxiong Linear regression analysis with observations subject to interval censoring. (English summary) **2004m:62219**
Li, Xiao Hu (*with* Yao, Hai-yuan) Test for NBUE ordering between two random lives with common finite mean. (English and Chinese summaries) **2004b:62218**
— A new characterization of NBU class of life distributions with application. (English summary) **2004c:62205**
— *see also* **Zhang, Shu-hong, 2004e:62186**
Li, Yi[8] (*with* Lin, Xihong) Functional inference in frailty measurement error models for clustered survival data using the SIMEX approach. (English summary) **2004a:62184**
Li, Yulin *see* **Block, Henry W. et al., 2004g:62174**
Limam, Mohamed M. T. *see* **Hajlaoui, Mekki**
Lin, Danyu *see* **Hu, Chengcheng, 2004m:62217** *and* **Ghosh, Debashis**
Lin, Guo Hua *see* **Pearn, Wen-Lea et al., 2004g:62178**
Lin, Haiqun *see* **Zelterman, Daniel**
Lin, Pi Chuan (*with* Pearn, Wen-Lea; Chen, Kuen-Suan) Distributional properties and implications of the estimated process incapability index $\hat{C}_{pp}^{n}$. (English summary) **2004i:62177**
Lin, Xiang *see* **Zeng, Ai Lin et al.**
Lin, Xihong *see* **Li, Yi[8], 2004a:62184**
Lin, Yu-Pin *see* **Huang, Wên T'ao, 2004j:62208**
Lindqvist, Bo Henry *see* **Bunea, Cornel et al., 2004k:62228**; **Kvaløy, Jan Terje, (2004i:62010)** *and* **Langseth, Helge, (2004i:62010)**
Lingham, Rama T. *see* **Basu, Sanjib[2], 2004b:62214**
Liu, Baoding *see* **Zhao, Ruiqing**
Liu, Ci Hua *see* **Chen, Yan**
Liu, Li Xi *see* **Ge, Guang Ping, 2004c:62204**
Liu, Rui-yuan (*with* Li, He-cheng) Optimum constant-stress plan for accelerated life test with censoring II. (English and Chinese summaries) **2004a:62185**
Liu, Shih Hua *see* **Fu, Chong Yau, (2004k:62018)**
Longobardi, Maria *see* **Di Crescenzo, Antonio, 2004m:62213**
Louzada Neto, Francisco A hybrid scale intensity model for recurrent event data. (English summary)
— *see also* **Mazucheli, Josmar et al.**
Love, Charles E. *see* **Kahle, Waltraud, (2004i:62010)**
Lu, Baofu *see* **Upadhyaya, B. R., (2004j:62012)**
Lü, Jian Hua *see* **Wu, Qi Guang, 2004d:62357**
Lu, Xuewen (*with* Singh, Radhey S.) Semiparametric location-scale regression models for survival data. (English summary) (*see* **2004a:62006**)
— (*with* Singh, Radhey S.) One-step estimation for the partially linear proportional hazards model. (English summary) **2004m:62220**
Lucas, James M. *see* **Saniga, Erwin M. et al.**
Lynch, James D. (*with* Padgett, William J.) Reliability models motivated by failure of brittle fibers and composites. (English summary)
Ma, Renjun (*with* Willms, J. Douglas; Burnett, Richard T.) A nested frailty survival model for recurrent events. (English summary) (*see* **2004k:62018**)
— (*with* Krewski, Daniel; Burnett, Richard T.) Random effects Cox models: a Poisson modelling approach. (English summary) **2004j:62209**
MacKay, R. Jock *see* **Steiner, Stefan H.**
Maheshwari, Sandhya *see* **Jain, Madhu**
Mahmoud, M. A. W. *see* **Abdel-Aty, Yahia et al.**
Major, Pierre *see* **Cook, Richard J. et al.**
Mak, T. K. (*with* Nebebe, Fassil) Efficiency measure, modelling and estimation in combined array designs. (English summary)
— *see also* **Chan, Lai Kow et al., 2004h:62182**
Mallikarjuna, Reddy A. (*with* Rao, K. L. N.) Probabilistic analysis of a two unit dependent system with non-identical components and human errors. (English summary) **2004e:62183**
Manca, Raimondo *see* **Biasi, Alessandro et al.**
Martinussen, Torben *see* **Pipper, Christian Bressen, 2004g:62179**; **2004k:62237** *and* **Scheike, Thomas H., 2004k:62240**
Masarotto, Guido *see* **Capizzi, Giovanna**
Matsubara, Shin'ichiro *see* **Nishina, Ken**
Mazucheli, Josmar (*with* Louzada Neto, Francisco; Achcar, Jorge Alberto) Lifetime models with nonconstant shape parameters. (English summary)
Mazzuchi, Thomas A. *see* **van Dorp, J. René**
Meier, Amalia S. (*with* Richardson, Barbra A.; Hughes, James P.) Discrete proportional hazards models for mismeasured outcomes. (English and French summaries)
Melgaard, Henrik *see* **Thyregod, Poul et al.**
Mi, Jie *see* **Bekker, Leonid, 2004g:62173**
Mihailescu, Laurenţiu A sequential method for the evaluation of the VaR model based on the run between exceedances. (English summary) **2004k:62235**
Milano, Leopoldo *see* **Eleuteri, A. et al.**
Misra, Neeraj *see* **Nanda, Asok K. et al., 2004h:62183**
Mokhlis, N. A. (*with* El-Sayed, Elham M.; El-Melihy, Ghada Youssef) Bounds on reliability of connected-(R, S)-out-of-(N, M): F lattice systems. (English summary)
Montenegro, L. C. C. (*with* Colosimo, Enrico Antônio; Cordeiro, Gauss Moutinho; Cruz, F. R. B.) Bias correction in the Cox regression model. (English summary)
Moore, Charles F. *see* **Kaistha, Nitin et al.**
Morag, Gail *see* **Ben-Gal, Irad et al.**
Moreb, A. A. (*with* Aljohani, M. S.) Minimizing total cost for a Gaussian distributed filling production system. (English summary)
Moustafa, Magdi S. Availability and reliability of K-to-L-out-of-N: G systems with M failure modes. (English summary) **2004d:62352**
Mukhopadhyay, Anis Chandra (*with* Bagchi, Srijib Bhusan; Das, Rabindra Nath[3]) Improvement of quality of a system using regression designs. (English summary)
Murphy, Eamonn *see* **Prendergast, James**
Murthy, D. N. Prabhakar *see* **Jiang, Ren Yan, 2004k:62234**
Muttlak, Hassen A. (*with* Al-Sabah, Walid S.) Statistical quality control based on ranked set sampling. (English summary)
Nadarajah, Saralees (*with* Kotz, Samuel) Reliability for Pareto models. (English summary)
— (*with* Kotz, Samuel) A generalized beta distribution. (English summary)
Nair, Vijay N. (*with* Escobar, Luis A.; Hamada, Michael S.) Design and analysis of experiments for reliability assessment and improvement. (English summary)
Nakagawa, Toshio *see* **Imaizumi, M. et al.**
Nam, Byung-Ho *see* **D'Agostino, R. B.**
Nanda, Asok K. (*with* Singh, Harshinder; Misra, Neeraj; Paul, Prasanta) Reliability properties of reversed residual lifetime. (English summary) **2004h:62183**
Nanthakumar, A. (*with* Selvavel, K.) On fixed-width estimation of process capability index C_{pm}. (English summary) **2004i:62178**
Nebebe, Fassil *see* **Mak, T. K.**
Nembhard, Harriet Black (*with* Kao, Ming Shu) Adaptive forecast-based monitoring for dynamic systems. (English summary)

Newby, Martin (*with* Dagg, Richard) Optimal inspection and maintenance for stochastically deteriorating systems: average cost criteria. (English summary)
— (*with* Dagg, Richard) Inspection and maintenance for stochastically deteriorating systems. (English summary) (*see* **2004i:62010**)
Nikulin, Mikhail S. *see* **Bagdonavičius, Vilijandas et al., 2004j:62206**
Nishikawa, Masako (*with* Tango, Toshiro) Counter-intuitive properties of the Kaplan-Meier estimator. (English summary) **2004k:62236**
Nishina, Ken (*with* Nishiyuki, Shintaro) False alarm probability function of CUSUM charts. (English summary) **2004g:62177**
— (*with* Matsubara, Shin'ichiro) A Markov approach to the average run length of Cusum charts for an AR(1) process. (English summary)
Nishiyuki, Shintaro *see* **Nishina, Ken, 2004g:62177**
Notz, William I. *see* **Lehman, Jeffrey S. et al.**
Nowak, Marian *see* **Bednarski, Tadeusz, 2004d:62344**
Oakes, David On frailty models and copulas. (English summary) (*see* **2004k:62018**)
— (*with* Wang, Antai) Copula model generated by Dabrowska's association measure. (English summary) **2004b:62219**
Ohta, Hiroshi[1] (*with* Kusukawa, Etsuko) An application of confirmation sample control chart in the high-yield processes and its economic design. (English summary)
Oller, Ramon *see* **Gómez, Guadalupe et al.**
O'Mullane, D. M. *see* **Hannigan, A. et al.**
Onar, Arzu (*with* Padgett, William J.) Cumulative damage approaches leading to inverse Gaussian accelerated test models.
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Osaki, Shunji *see* **Dohi, Tadashi et al., 2004k:62232** *and* **Satow, Takashi**
Padgett, William J. *see* **Onar, Arzu** *and* **Lynch, James D.**
Pal, Manisha (*with* Chattopadhyay, Gaurangadeb; Sinha, Bikas K.) On strong and weak confounding in a complex system: characterization and examples. (English summary) **2004h:62184**
Pan, Rong *see* **del Castillo, Enrique et al.**
Pankratz, V. Shane *see* **Therneau, Terry M. et al., 2004a:62187**
Pascual, Francis G. A standarized form of the random fatigue-limit model. (English summary)
— The random fatigue-limit model in multi-factor experiments. (English summary)
— Theory for optimal test plans for the random fatigue-limit model. (English summary) **2004b:62220**
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Sun, Yanqing *see* **Cui, Sufang, 2004k:62230**
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(Vehtari, Aki) *see* **Carlin, Bradley P., (2004g:62009)**

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Wendt, Heide *see* **Kahle, Waltraud**

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McNeil, Alexander J. *see* **Lindskog, Filip**, 2004m:62225
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Denuit, Michel *see* **Purcaru, Oana, 2004b:62226**; **Hürlimann, Werner, 2004d:62364** *and* **Cebrián, Ana C. et al.**
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— Distortion risk measures and economic capital. (English summary) **2004k:62247**
Irbäck, Johan Asymptotic theory for a risk process with a high dividend barrier. (English summary) **2004d:62365**
Jang, Jaeho *see* **Brockett, Patrick L. et al., (2004k:62016)**
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Lambert, Philippe *see* **Cebrián, Ana C. et al.**
Landsman, Zinoviy M. (*with* Makov, Udi E.) Contaminated exponential dispersion loss models. (English summary) **2004d:62368**
Lawless, Jerald F. *see* **Farewell, Vernon T. et al.**
Le Bihan, Hervé *see* **Jondeau, Eric et al.**
Lefèvre, Claude *see* **Picard, Philippe et al.**, **2004j:62214**
Leung, Ping Kei Bartholomew *see* **Gerber, Hans U. et al.**, **2004e:62188**
Levikson, Benny *see* **Frostig, Esther et al.**, **2004d:62360**
(Lhabitant, François-Serge) *see* **Gerber, Hans U.**, **2004e:62187**
Li, Chi Lin *see* **Tang, Xiang Jin**, **2004m:62227**
Li, Jin Zhi *see* **Qiao, Ke Lin et al.**
Li, Xu Cheng *see* **He, Yuan Jiang et al.**, **2004f:62191**
Liang, Yan Chun *see* **Huang, Xiao Wei et al.**, **2004j:62212**
(Lin, X. Sheldon) *see* **Gerber, Hans U.**
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Lynn, Nicholas James The price of failure. (English summary)
Makov, Udi E. *see* **Landsman, Zinoviy M.**, **2004d:62368**
Malevergne, Y. (*with* Sornette, Didier) Value-at-risk-efficient portfolios for a class of super- and sub-exponentially decaying assets return distributions. (English summary) **2004m:62226**
Marín-Solano, Jesús *see* **Ribas, Carmen et al.**, **2004e:62191**
Mármol, M. *see* **Claramunt, M. M. et al.**, **2004k:62245**
Mata, Ana J. Asymptotic dependence of reinsurance aggregate claim amounts. (English summary) **2004k:62248**
Matthys, Gunther (*with* Delafosse, Emmanuel; Guillou, Armelle; Beirlant, Jan) Estimating catastrophic quantile levels for heavy-tailed distributions. (English summary)
McLeish, Donald L. (*with* Reesor, R. Mark) Risk, entropy, and the transformation of distributions. (English summary) **2004c:62209**
McNeil, Alexander J. *see* **Lindskog, Filip**, **2004m:62225**
Miltersen, Kristian R. (*with* Persson, Svein-Arne) Guaranteed investment contracts: distributed and undistributed excess return. (English summary)
(Mitchell, G. Thomas) *see* **Tiong, Serena**, **2004c:62210**
Morillo, Isabel (*with* Bermúdez, Lluis) Bonus-malus system using an exponential loss function with an inverse Gaussian distribution. (English summary) **2004i:62179**
(Müller, Alfred[2]) *see* **Hürlimann, Werner**, **2004d:62364**
Nagaev, A. V. (*with* Nagaev, S. A.) Asymptotics of riskless profit under selling of discrete time call options. (English summary) **2004e:62189**
Nagaev, S. A. *see* **Nagaev, A. V.**, **2004e:62189**
Nielsen, Jens Perch (*with* Sperlich, Stefan) Prediction of stock returns: a new way to look at it. (English summary)
Niu, Xu-Feng *see* **Zhang, Shaojun et al.**, **2004j:62215**
Ostaszewski, Krzysztof M. (*with* Rempała, Grzegorz A.) Emerging applications of the resampling methods in actuarial models. (*see* **2004k:62016**)
Owadally, M. Iqbal (*with* Haberman, Steven) Pension fund dynamics and gains/losses due to random rates of investment return. (English summary) **2004j:62213**
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Pafumi, Gérard *see* **Gerber, Hans U.**, **2004e:62187**
Paris, José *see* **Walhin, Jean-François**, **2004a:62190**
Parker, Gary Stochastic analysis of the interaction between investment and insurance risks. (English summary) **2004e:62190**
Parner, Jan *see* **Guillén, Montserrat et al.**, (**2004k:62016**)
Pedersen, Hal W. *see* **Cox, Samuel H.**
Pedersen, Jan *see* **Jiang, Wenjiang**, **2004d:62366**
Perez-Marin, Ana M. *see* **Guillén, Montserrat et al.**, (**2004k:62016**)
Persson, Svein-Arne *see* **Gerber, Hans U.**, **2004e:62187**; **Miltersen, Kristian R.** *and* **Aase, Knut K.**
Picard, Philippe (*with* Lefèvre, Claude; Coulibaly, Ibrahim) Multirisks model and finite-time ruin probabilities. (English summary) **2004j:62214**
Platen, Eckhard (*with* Stahl, Gerhard) A structure for general and specific market risk. (English summary)
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Poon, Ser-Huang (*with* Rockinger, Michael; Tawn, Jonathan A.) Modelling extreme-value dependence in international stock markets. (English summary)
Predota, Martin *see* **Hartinger, Jürgen**, **2004d:62362**
Purcaru, Oana (*with* Denuit, Michel) Dependence in dynamic claim frequency credibility models. (English summary) **2004b:62226**
Qian, Su-ping *see* **Wang, Guo-jing et al.**, **2004h:62190**
Qiao, Ke Lin (*with* Li, Jin Zhi; He, Shu Hong) The survival probabilities in finite time period in fully discrete binomial risk model. (English and Chinese summaries)
Qu, Wendong *see* **Huang, Norden E. et al.**
Reesor, R. Mark *see* **McLeish, Donald L.**, **2004c:62209**
Reimers, Hans-Eggert Comparison of M3 and divisia M3 aggregates for the euro area. (English summary) (*see* **2004k:62015**)
Rempała, Grzegorz A. *see* **Ostaszewski, Krzysztof M.**, (**2004k:62016**)
Ribas, Carmen (*with* Marín-Solano, Jesús; Alegre, Antonio) On the computation of the aggregate claims distribution in the individual life model with bivariate dependencies. (English summary) **2004e:62191**
Robb, Arthur *see* **Duncan, Ian**, (**2004k:62016**)
Rockinger, Michael *see* **Poon, Ser-Huang et al.**
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Schulz, Rainer (*with* Sofyan, Hizir; Werwatz, Axel; Witzel, Rodrigo) Online prediction of Berlin single-family house prices. (English summary)
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Shemyakin, A. E. *see* **Youn, Heekyung et al.**, **2004c:62212**
Shen, Samuel S. P. *see* **Huang, Norden E. et al.**
Shiu, Elias S. W. *see* **Tiong, Serena**, **2004c:62210**; **Gerber, Hans U. et al.**, **2004d:62361**; **2004e:62188**; **Decamps, Marc** *and* **Yu, Carisa K. W.**
Siu, Tak Kuen (*with* Tong, Howell; Yang, Hailiang) Bayesian risk measures for derivatives via random Esscher transform. (English summary)
Smith, Kate *see* **Yeo, A. C.**, (**2004k:62016**)
Sofyan, Hizir *see* **Schulz, Rainer et al.**
Song, Li Xin[1] *see* **Huang, Xiao Wei et al.**, **2004j:62212**
Sornette, Didier *see* **Malevergne, Y.**, **2004m:62226**
Sperlich, Stefan *see* **Nielsen, Jens Perch**
Stahl, Gerhard *see* **Platen, Eckhard**
Stanford, David A. *see* **Drekic, Steve et al.**, **2004m:62224**
Steinberg, Dan *see* **Kolyshkina, Inna et al.**, (**2004k:62016**)
Stroud, Jonathan R. *see* **Polson, Nicholas G.**, (**2004g:62009**)
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Tawn, Jonathan A. *see* **Poon, Ser-Huang et al.**
Timmermann, Allan *see* **Lunde, Asger**
Tiong, Serena Valuing equity-indexed annuities. (English summary) **2004c:62210**
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Tsitsiashvili, G. Sh. *see* **Tang, Qi-he**, **2004h:62189**
Urowitz, Murray B. *see* **Farewell, Vernon T. et al.**
Vázquez-Polo, F. J. *see* **Gómez-Déniz, E.**, (**2004k:62016**)
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Vincent, P. *see* **Dugas, C. et al.**, (**2004k:62016**)
Vogt, Michael *see* **Hipp, Christian**, **2004k:62246**
Vyncke, David *see* **Goovaerts, Marc J. et al.**
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Wang, Jin Liang[2] *see* **Kong, Fan Chao et al.**, **2004c:62208**
Weber, Thomas Alois (*with* Croson, David C.) Selling less information for more: garbling with benefits. (English summary)
Werwatz, Axel *see* **Schulz, Rainer et al.**
Willmot, Gordon E. *see* **Drekic, Steve et al.**, **2004m:62224**
Witzel, Rodrigo *see* **Schulz, Rainer et al.**
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Wu, Man-Li C. *see* **Huang, Norden E. et al.**
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Wüthrich, Mario V. Asymptotic value-at-risk estimates for sums of dependent random variables. (English summary) **2004d:62369**
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Zhang, Shaojun (*with* Niu, Xu-Feng; Ang, James S.) Building tracking portfolios based on a generalized information criterion. (English summary) **2004j:62215**
(Zhang, Xiaolan) *see* **Gerber, Hans U.**
Zhao, Xiang Hua *see* **Dong, Hua**
Zitikis, Ričardas *see* **Jones, Bruce L.**
Zuccolotto, Paola *see* **De Luca, Giovanni**

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Anatolyev, Stanislav The form of the optimal nonlinear instrument for multiperiod conditional moment restrictions. (English summary) **2004h:62120**
Angulo, J. M. *see* **Fernández-Pascual, R. et al., 2004g:62150**
Arouna, Bouhari Adaptative Monte Carlo method, a variance reduction technique. (English summary) **2004m:62159**
Arteche, Josu Gaussian semiparametric estimation in long memory in stochastic volatility and signal plus noise models. (English summary) **2004m:62181**
Arvanitis, Stelios (*with* Demos, Antonis) Time dependence and moments of a family of time-varying parameter GARCH in mean models. (English summary) **2004k:62191**
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Benhamou, Eric (*with* Duguet, Alexandre) Small dimension PDE for discrete Asian options. (English summary) **2004f:91072**
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Boyle, Phelim P. (*with* Lin, Xiaodong) Optimal portfolio selection with transaction costs. (English summary) **2004c:62025**
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Buchmann, Boris (*with* Grübel, Rudolf) Decompounding: an estimation problem for Poisson random sums. (English summary) **2004g:62070**
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Ciccarelli, Matteo *see* **Canova, Fabio**
Corradi, Gianfranco (*with* Janssen, Jacques; Manca, Raimondo) Numerical treatment of homogeneous semi-Markov processes in transient case—a straightforward approach. (English summary)
Corrado, Luisa (*with* Holly, Sean) Nonlinear Phillips curves, mixing feedback rules and the distribution of inflation and output. (English summary)
Crane, Martin *see* **Sharifi, S. et al., 2004m:91124**
Crowder, Martin J. *see* **Stephens, David A. et al.**
Dahan, Merav (*with* Frostig, Esther; Langberg, Naftali A.) Analysis of heterogeneous endowment policies portfolios under fractional approximations. (English summary) **2004i:91107**
DeGennaro, R. P. *see* **Bensmail, H., (2004j:62012)**
Dellaportas, Petros *see* **Stephens, David A. et al.**
Demos, Antonis *see* **Arvanitis, Stelios, 2004k:62191**
Denuit, Michel *see* **Dhaene, Jan et al., 2004d:91139**
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— *see also* **De Schepper, Ann et al., 2004a:62033**
Duarte, Jefferson *see* **Aït-Sahalia, Yacine, 2004g:62086**
Duguet, Alexandre *see* **Benhamou, Eric, 2004f:91072**
Embrechts, Paul (*with* Resnick, Sidney I.; Samorodnitsky, Gennady) Extreme value theory as a risk management tool. (English summary) **2004d:62190**
Evans, A. K. *see* **London, M. D. et al., 2004h:62159**
Eyheramendy, Susana *see* **Liu, Regina Y. C. et al., (2004d:62007)**
Fan, Jianqing (*with* Zhang, Chunming M.) A reexamination of diffusion estimators with applications to financial model validation. (English summary) **2004a:62078**
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Farmer, J. Doyne *see* **Smith, David Eric et al., 2004j:91107**
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— *see also* **Klein, Ingo, (2004k:62015)**
Fournier, David A. *see* **Meyer, Renate[2] et al.**
Frahm, Gabriel (*with* Junker, Markus; Szimayer, Alexander) Elliptical copulas: applicability and limitations. (English summary) **2004c:62121**
Frostig, Esther *see* **Dahan, Merav et al., 2004i:91107**
Gillemot, László *see* **Smith, David Eric et al., 2004j:91107**
Girard, Stéphane A Hill type estimator of the Weibull tail-coefficient. (English summary) **2004m:62118**
Gonzalez, Antonio *see* **Bladt, Mogens et al.**
Goovaerts, Marc J. (*with* Kaas, Rob) Some problems in actuarial finance involving sums of dependent risks. (English summary)
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Gouriéroux, Christian (*with* Jasiak, Joann) Heterogeneous INAR(1) model with application to car insurance. (English summary)
Graf v. Bothmer, Hans-Christian Significance of log-periodic signatures in cumulative noise. (English summary) **2004k:91163**
Grübel, Rudolf *see* **Buchmann, Boris, 2004g:62070**
Guo, Wen-yan *see* **Xue, Hong-gang et al., 2004j:91159**
Gupta, Arjun K. *see* **Chen, Tuhao J. et al., 2004e:62041**
Haberman, Steven *see* **Renshaw, A. E.**
Haefke, Christian *see* **Bertail, Patrice et al.**
Hatzl, Johannes Value at risk: a mathematical survey and simulation methods. (English summary) (*see* **2004a:62012**)
Hayashi, I. *see* **Nakamura, Syouji et al.**
Holly, Sean *see* **Corrado, Luisa**
Hsu, Yu-Yun *see* **Wu, Berlin, (2004a:62013)**
Hürlimann, Werner A Gaussian exponential approximation to some compound Poisson distributions. (English summary) **2004d:62137**
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Janic-Wróblewska, Alicja (*with* Kallenberg, Wilbert C. M.; Ledwina, T.) Detecting positive quadrant dependence and positive function dependence. (English summary)
Janssen, Jacques *see* **Corradi, Gianfranco et al.**
Jasiak, Joann *see* **Gouriéroux, Christian**
Jiang, Jiancheng *see* **Fan, Jianqing et al.**
Jönsson, H. (*with* Kukush, A. G.; Silvestrov, Dmitrii) Threshold structure of optimal stopping domains for American type options. (English summary)
Junker, Markus *see* **Frahm, Gabriel et al., 2004c:62121**
Kaas, Rob *see* **De Schepper, Ann et al., 2004a:62033; Dhaene, Jan et al., 2004d:91139** *and* **Goovaerts, Marc J.**
Kallenberg, Wilbert C. M. *see* **Janic-Wróblewska, Alicja et al.**
Kazakevičius, Vytautas (*with* Leipus, Remigijus) A new theorem on the existence of invariant distributions with applications to ARCH processes. (English summary) **2004b:60175**
Khoudar, Mohamed *see* **Kokonendji, Célestin C.**
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Kotz, Samuel *see* **Kleiber, Christian, 2004e:62004**
Kozubowski, Tomasz J. (*with* Podgórski, Krzysztof) A log-Laplace growth rate model. (English summary) **2004k:60033**
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Podgórski, Krzysztof *see* **Kozubowski, Tomasz J., 2004k:60033**
Politis, Dimitris N. *see* **Bertail, Patrice et al.**
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Qian, Cunhua *see* **Nakamura, Syouji et al.**
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Rousset, Patrick *see* **Maillet, Bertrand, (2004m:91008)**
Ruiz-Medina, M. D. *see* **Fernández-Pascual, R. et al., 2004g:62150**
Ruskin, H. *see* **Sharifi, S. et al., 2004m:91124**
Samarov, A. M. *see* **Lauprete, G. J. et al., (2004a:62010)**
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Zhang, Lian-zeng *see* **Zhang, Chun Sheng et al., 2004h:60076** *and* **Chan, Wai-sum et al.**
Zhang, Mian *see* **Yu, Shan-li et al.**
Zhou, Shu Lin[1] *see* **Yang, Jing-ping, 2004d:91193**
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62P10 Applications to biology and medical sciences

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Aguirre-Hernández, R. (*with* Farewell, Vernon T.) Appraisal of models for the study of disease progression in psoriatic arthritis.
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Baggerly, Keith A. *see* **Morris, Jeffrey S. et al.**
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Bammann, Karin *see* **Pigeot, Iris et al.**
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Bhatia, V. K. *see* **Kumar Paul, Amrit** *and* **Kiran, P. Sandhya et al.**
Biebler, Karl-Ernst (*with* Jäger, Bernd; Wodny, Michael; Below, Eike) Mixed data type and topological classification. (English summary)
Bijnens, Luc *see* **Wouters, Luc et al.**
Bina, Minou *see* **Xie, Jun et al.**
Biondi, C. *see* **Brizzi, Maurizio et al.**
Biswas, Atanu (*with* Angers, Jean-François) A Bayesian adaptive design in clinical trials for continuous responses. (English summary) **2004j:62216**
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Bosch, Ronald J. *see* **Gilbert, Peter B. et al.**
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Boyle, Kerrie E. *see* **Jones, Shelton M. et al.**, (**2004k:62018**)
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Brazma, Alvis *see* **Vilo, Jaak et al.**, (**2004e:62008**)
Britton, Tom *see* **Becker, Niels G. et al.**
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Brooks, Stephen P. *see* **King, Ruth, 2004j:62218**
Broom, Bradley *see* **Do, Kim-Anh et al.**, (**2004e:62008**)
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Brown, Elizabeth R. (*with* Ibrahim, Joseph G.) Bayesian approaches to joint cure-rate and longitudinal models with applications to cancer vaccine trials. (English and French summaries)
Brown, Morton B. *see* **Wang, Yuedong et al.** *and* **Li, Lang et al.**
Brown, Philip J. *see* **Morris, Jeffrey S. et al.**
Buckland, Stephen T. *see* **Marques, Fernanda F. C.**
Bühlmann, Peter *see* **Dettling, Marcel**
Buist, Willem *see* **Engel, Bas et al.**
Burington, Bart E. (*with* Emerson, Scott S.) Flexible implementations of group sequential stopping rules using constrained boundaries. (English and French summaries)
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Buyse, Marc *see* **Burzykowski, Tomasz et al.**
Cappelleri, Joseph C. *see* **Lan, K. K. Gordon et al.**
Carey, Vincent J. Ontology concepts and tools for statistical genomics. (English summary)
— *see also* **Gentleman, Robert**, (**2004e:62008**)
Carroll, Raymond J. *see* **Morris, Jeffrey S. et al.** *and* **Apanasovich, Tatiyana V. et al.**
Catalano, Paul J. *see* **Regan, Meredith M.**, (**2004g:62010**)
Chan, Ivan S. F. (*with* Tang, Nian-Sheng; Tang, Man-Lai; Chan, Ping-Shing) Statistical analysis of noninferiority trials with a rate ratio in small-sample matched-pair designs. (English and French summaries)
Chan, Ping-Shing *see* **Chan, Ivan S. F. et al.**
Chan, Wai-sum *see* **Kwong, Koon Shing et al.**
Chaovalitwongse, Wanpracha *see* **Pardalos, Panos M. et al., 2004d:62372**
Chapkin, Robert S. *see* **Apanasovich, Tatiyana V. et al.**
Chatterjee, Nilanjan A two-stage regression model for epidemiological studies with multivariate disease classification data. (English summary)
Chen, Chao W. *see* **Tan, Wai Y. et al.**
Chen, James J. *see* **Tsai, Chen-An et al.**
(Chen, Ming-Hui) *see* **Chib, Siddhartha**, (**2004g:62009**)
Cheng, Yi[2] (*with* Su, Fusheng; Berry, Donald A.) Choosing sample size for a clinical trial using decision analysis. (English summary) **2004j:62217**
Cheung, Siu Hung *see* **Kwong, Koon Shing et al.**
Chib, Siddhartha On inferring effects of binary treatments with unobserved confounders. (English summary) (*see* **2004g:62009**)
Choi, Kuey Chung *see* **Son, Young Nam**
Churchill, Gary A. *see* **Wu, Hao et al.**, (**2004e:62008**)
Clayton, M. K. *see* **Gangnon, R. E., 2004h:62191**
Coburger, Silke (*with* Wassmer, Gernot) Sample size reassessment in adaptive clinical trials using a bias corrected estimate. (English summary)
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— *see also* **Hashemi, R. et al.**
Coombes, Kevin R. *see* **Morris, Jeffrey S. et al.**
Cope, Leslie M. *see* **Irizarry, Rafael A. et al.**, (**2004e:62008**)
Corcoran, Chris (*with* Ryan, Louise M.) Exact dose-response inference. (*see* **2004g:62010**)
Coull, B. A. *see* **Wager, C. G. et al.**
Crowley, John J. *see* **Pauler, Donna K. et al.**
Cui, Xiangqin *see* **Wu, Hao et al.**, (**2004e:62008**)
Czika, Wendy (*with* Weir, B. S.) Properties of the multiallelic trend test. (English and French summaries)
Daimon, Takashi (*with* Goto, Masashi) Power-transformation mixed effects model with applications to pharmacokinetics. (English summary)
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Daniels, Danni *see* **Smith, Philip J. et al.**
Das, Ashish D. *see* **Ghosh, Himadri, 2004m:62229**
Datta, Susmita Testing neutrality of mtDNA using multigeneration cytonuclear data. (English summary) (*see* **2004c:62007**)
— Some statistical issues involving multigeneration cytonuclear data. (English summary) (*see* **2004a:62006**)
Daurès, Jean-Pierre *see* **Molinari, Nicolas**
Davidian, Marie *see* **Leon, Selene et al.**
Dawson, Ree (*with* Lavori, Philip W.) Comparison of designs for adaptive treatment strategies: baseline vs. adaptive randomization. (English summary) **2004g:62186**
Declerck, Lieven Quantitative risk assessment. (*see* **2004g:62010**)
DeMets, David L. *see* **Kosorok, Michael R. et al.**
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Dettling, Marcel (*with* Bühlmann, Peter) Finding predictive gene groups from microarray data. (English summary)
Dewanji, Anup (*with* Ganguly, Krishna S.; Mohanto, Parth P.; Samanta, Tapas; Sinha, Bikas K.) A study of pulsed electro-magnetic field therapy for rheumatoid arthritis pateints: analysis of adjustment period data. (English summary)
Dieterich, Peter *see* **Preuss, Roland et al.**, (**2004f:62019**)
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Dobra, Adrian (*with* Hans, C. M.; Jones, Beatrix; Nevins, Joseph R.; Yao, Guang; West, Mike) Sparse graphical models for exploring gene expression data. (English summary)
Dodd, Lori E. (*with* Pepe, Margaret Sullivan) Partial AUC estimation and regression. (English and French summaries)
Donnelly, Peter *see* **Stephens, Matthew, 2004i:62181**
Dorman, Karin S. *see* **Suchard, Marc A. et al.**
Drwal, Grzegorz *see* **Walichiewicz, Piotr et al.**
Dudoit, Sandrine (*with* Goldstein, Darlene R.) Extensions to a score test for genetic linkage with identity by descent data. (English summary) (*see* **2004d:62008**)
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Duncan, Pamela W. *see* **Parmigiani, Giovanni et al.**
Dupuy, Jean-François *see* **Mesbah, Mounir et al.**
Ebrahimi, Nader (*with* Zhang, Xu[3]; Berg, Anne; Shinnar, Shlomo) Frailty model and its application to seizure data.
Efe, Murat *see* **Ozbek, Levent**
Eilers, Paul H. C. *see* **Kauermann, Göran**
Emerson, Scott S. *see* **Burington, Bart E.**
Endrikat, Jan *see* **Benda, Norbert et al.**
Engel, Bas (*with* van Reenen, Kees; Buist, Willem) Analysis of correlated series of repeated measurements: application to challenge data. (English summary)
Engels, Eric *see* **Pfeiffer, Ruth M. et al.**
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Erskine, W. *see* **Malhotra, R. S. et al.**
Evans, Jai *see* **Lemkin, Peter F. et al.**, (**2004e:62008**)
Eveson, J. Paige *see* **Laslett, Geoff M. et al.**
Faddy, Malcolm J. (*with* Taylor, G. J.) Stochastic modelling of the onset of bronchiolitis obliterans syndrome following lung transplantation: an analysis of risk factors. (English summary)
Faessel, Hélène M. *see* **White, Donald B. et al.**
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Farver, Thomas B. *see* **Singh, Rajendra[3] et al.**
Faulkner, James R. *see* **Pauler, Donna K. et al.**
Feng, Rui *see* **Zhang, He Ping[1] et al., 2004k:62253**
Follmann, Dean A. *see* **Albert, Paul S.** *and* **Proschan, Michael A.**
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Fujisawa, Masaki *see* **Baba, Mitsumasa et al.**
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Ganguly, Krishna S. *see* **Dewanji, Anup et al.**
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Gasche, Christoph *see* **Natarajan, Loki et al.**
Gastwirth, Joseph L. *see* **Li, Zhaohai et al., 2004m:62231**
Gautier, Laurent *see* **Irizarry, Rafael A. et al., (2004e:62008)**
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Geng, Zhi *see* **Kuroda, Masahiro**
Gentleman, Robert (*with* Carey, Vincent J.) Visualization and annotation of genomic experiments. (English summary) (*see* **2004e:62008**)
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Gerber, Georg *see* **Bar-Joseph, Ziv et al., 2004m:62228**
Gerlinger, Christoph *see* **Benda, Norbert et al.**
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Geys, Helena *see* **Alonso, Ariel et al.**
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Ghosh, Malay *see* **Sinha, Samiran et al.**
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Gillet, Elizabeth M. *see* **Gregorius, Hans-Rolf et al.**
Gimenez, Olivier *see* **Pradel, Roger et al., 2004c:62213**
Goetghebeur, E. *see* **Vansteelandt, S.**
Gogate, Adheet S. *see* **Zou, Kelly H. et al.**
Göhlmann, Hinrich W. *see* **Wouters, Luc et al.**
Goldstein, Darlene R. *see* **Dudoit, Sandrine, (2004d:62008)**
Gorman, Patricia A. *see* **Newton, Michael A. et al., (2004g:62009)**
Goto, Masashi *see* **Isomura, Tatsuya et al.; Daimon, Takashi** *and* **Baba, Mitsumasa et al.**
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Grover, Gurprit (*with* Makhija, Neeta) Cox's regression model for the growth of a tumour followed by death from that tumour. (English summary)
Grozeva, Neli *see* **Tsvetanova, Yanka**
Guerra, Rudy *see* **Han, Jian, (2004d:62008)**
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Gupta, Suneel *see* **Li, Lang et al.**
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Haines, Linda M. (*with* Perevozskaya, Inna; Rosenberger, William F.) Bayesian optimal designs for Phase I clinical trials. (English and French summaries)
Halpern, Jerry *see* **Brown, Byron Wm., Jr.**
Hamasaki, Toshimitsu *see* **Isomura, Tatsuya et al.**
Han, Jian (*with* Guerra, Rudy) Cost efficiency of genetic linkage studies using mixtures of selected sib-pairs. (English summary) (*see* **2004d:62008**)
Hans, C. M. *see* **Dobra, Adrian et al.**
Hardin, Johanna *see* **Pauler, Donna K. et al.**
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Hayakawa, Yu (*with* O'Neill, Philip D.; Upton, Darren; Yip, Paul S. F.) Bayesian inference for a stochastic epidemic model with uncertain numbers of susceptibles of several types. (English summary)
Haydon, D. T. *see* **Greenwood, Priscilla E., (2004c:62007)**
He, Xuming *see* **Fu, Bo et al.**
Henry, George *see* **Bouton, Christopher M. L. S. et al., (2004e:62008)** *and* **Colantuoni, Carlo et al., (2004e:62008)**
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Heutte, Natacha *see* **Mesbah, Mounir et al.**
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Hoaglin, David C. *see* **Smith, Philip J. et al.**
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Hossain, M. K. *see* **Hossain, Md. Zakir et al.**
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Hössjer, Ola Asymptotic estimation theory of multipoint linkage analysis under perfect marker information. (English summary) **2004f:62193**
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Hothorn, Torsten *see* **Peters, Andrea et al., (2004d:62005)**
Hsueh, Huey-Miin *see* **Tsai, Chen-An et al.**
Hu, Fei Fang (*with* Rosenberger, William F.) Optimality, variability, power: evaluating response-adapative randomization procedures for treatment comparisons. (English summary)
Hu, Mingxiu *see* **Lan, K. K. Gordon et al.**
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Huang, Jian[1] (*with* Wang, Kai[4]) A semiparametric method for mapping quantitative trait loci. (English summary) (*see* **2004j:62009**)
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Hudgens, Michael G. *see* **Gilbert, Peter B. et al.**
Hudson, H. Malcolm (*with* Langlands, Allan; Simes, John) Risk models for individual decision making. (English summary)
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Hughes, James P. (*with* Totten, Patricia) Estimating the accuracy of polymerase chain reaction-based tests using endpoint dilution. (English and French summaries)
Hunt, Daniel *see* **Rai, Shesh N. et al., (2004k:62018)** *and* **Li, Chin-Shang**
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Huttley, Gavin A. *see* **Wilson, Susan R.**
Iasemidis, Leonidas D. *see* **Pardalos, Panos M. et al., 2004d:62372**
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Ivanova, Anastasia *see* **Berger, Vance W. et al.**
Iyengar, Satish The analysis of multiple neural spike trains. (English summary) (*see* **2004a:62006**)
Iyer, Hari K. *see* **Gadbury, Gary L. et al., 2004k:62251**
Jaakkola, Tommi S. *see* **Bar-Joseph, Ziv et al., 2004m:62228**
Jackson, Christopher H. (*with* Sharples, Linda D.) Models for longitudinal data with censored changepoints. (English summary)
Jacqmin-Gadda, H. *see* **Hashemi, R. et al.**
Jäger, Bernd *see* **Biebler, Karl-Ernst et al.**
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Joly, Pierre *see* **Commenges, Daniel**
Jones, Beatrix Balancing population size and genetic information in parentage analysis studies. (English and French summaries) **2004g:62187**
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Kapushesky, Misha *see* **Vilo, Jaak et al., (2004e:62008)**
Karagrigoriou, Alex *see* **Vonta, Filia et al., (2004i:00008)**
Kárný, Miroslav *see* **Gebouský, Petr et al., (2004g:62009)**
Karrison, Theodore G. (*with* O'Brien, Peter C.) A rank-sum-type test for paired data with multiple endpoints. (English summary)
Kass, Stefan U. *see* **Wouters, Luc et al.**
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Kaufmann, J. *see* **Lindsey, P. J.**
Ke, Chunlei *see* **Wang, Yuedong et al.**

Ke, Weiming *see* **Tan, Wai Y.**
Kelly, Colleen (*with* Price, Trevor D.) Comparative methods based on species mean values. (English summary)
Kemmeren, Patrick *see* **Vilo, Jaak et al.**, (**2004e:62008**)
Kendziorski, Christina *see* **Newton, Michael A.**, (**2004e:62008**)
Kenward, Michael G. *see* **Alonso, Ariel et al.**
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Khinkis, Leonid *see* **White, Donald B. et al.**
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King, Ruth (*with* Brooks, Stephen P.) Closed-form likelihoods for Arnason-Schwarz models. (English summary) **2004j:62218**
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Kirkwood, Sandra Close The role of statistics in pharmacogenomics. (English summary)
Kitakado, Toshihide *see* **Okamura, Hiroshi et al.**
Ko, Seoung-Gon *see* **Oh, Hyun Sook et al.**
Kohane, Isaac S. *see* **Sebastiani, Paola et al.**, (**2004e:62008**) *and* **Butte, Atul J.**, (**2004e:62008**)
Kokki, Esa (*with* Penttinen, Antti) Poisson regression with change-point prior in the modelling of disease risk around a point source. (English summary)
Kosorok, Michael R. (*with* Shi, Yuanjun; DeMets, David L.) Design and analysis of group sequential clinical trials with multiple primary endpoints. (English and French summaries)
Kuhlisch, Wiltrud Estimation of a threshold-value in the context of air pollution and health. (English summary)
Kumar, Alok[2] *see* **Yadava, K. N. S. et al.**
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Kuroda, Masahiro (*with* Geng, Zhi) Bayesian inference for categorical data with misclassification errors. (English summary)
Kwong, Koon Shing (*with* Cheung, Siu Hung; Chan, Wai-sum) Multiple testing to establish superiority/equivalence of a new treatment compared with k standard treatments for unbalanced designs. (English and French summaries)
Kyriacou, K. *see* **Vonta, Filia et al.**, (**2004i:00008**)
van der Laan, Mark J. *see* **Pollard, Katherine S.**, (**2004d:62006**)
Lagakos, Stephen W. *see* **Balasubramanian, Raji**
Lai, Sue Min *see* **Parmigiani, Giovanni et al.**
Lal, Krishan *see* **Singh, Rajendra**[3] **et al.**
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Lan, K. K. Gordon (*with* Hu, Mingxiu; Cappelleri, Joseph C.) Applying the law of iterated logarithm to cumulative meta-analysis of a continuous endpoint. (English summary)
Lange, N. *see* **Wager, C. G. et al.**
Langlands, Allan *see* **Hudson, H. Malcolm et al.**
Laslett, Geoff M. (*with* Eveson, J. Paige; Polacheck, Tom) Estimating the age at capture in capture-recapture studies of fish growth. (English summary)
Lausen, Berthold Bioinformatics and classification: the analysis of genome expression data. (English summary) (*see* **2004d:62005**)
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Lavori, Philip W. *see* **Dawson, Ree**, **2004g:62186**
Lazzarato, L. *see* **Brizzi, Maurizio et al.**
LeBlanc, Michael *see* **Pauler, Donna K. et al.**
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Lee, Jae Kyun (*with* O'Connell, Michael) An S-PLUS library for the analysis and visualization of differential expression. (English summary) (*see* **2004e:62008**)
Lee, Kyung-Hoon *see* **Li, Lang et al.**
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Lewi, Paul J. *see* **Wouters, Luc et al.**
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Li, Ker-Chau *see* **Xie, Jun et al.**
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Lillo, Rosa E. *see* **Ausín, M. Concepción et al.**, (**2004g:62009**)
Lin, Chii-Dean *see* **Lui, Kung-Jong**, **2004a:62191**
Lin, Shili (*with* Alexandridis, Roxana) Classification of tissue samples using mixture modeling of microarray gene expression data. (English summary) (*see* **2004d:62008**)
Lin, Shu-Hui *see* **Lee, Jack C.**
Lin, Xihong *see* **Li, Lang et al.**
Lin, Yi[5] (*with* Nadler, Samuel T.; Lan, Hong; Attie, Alan D.; Yandell, Brian S.) Adaptive gene picking with microarray data: detecting important low abundance signals. (English summary) (*see* **2004e:62008**)
Lin, Yong[2] *see* **Lu, Shou-En et al.**
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Lipsitz, Stuart R. *see* **Herring, Amy H. et al.**
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Liu, Li Ping[4] (*with* Yip, Paul S. F.) Estimating population size in proportional trapping-removal models. (English summary) **2004b:62227**
Loesch, Danuta Z. *see* **Huggins, Richard M. et al.**, (**2004c:62007**)
Louis, Thomas A. *see* **Dobbin, Kevin K.**
Lu, Shou-En (*with* Lin, Yong[2]; Shih, Wei-Chung Joe) Analyzing excessive no changes in clinical trials with clustered data. (English and French summaries)
Lui, Kung-Jong (*with* Lin, Chii-Dean) Interval estimation of treatment effects in double consent randomized design. (English summary) **2004a:62191**
Lupton, Joanne R. *see* **Apanasovich, Tatiyana V. et al.**
Ma, Wen-Qing *see* **Zheng, Shu-Rong**, **2004c:62214**
Maccario, Jean *see* **Paoletti, Xavier et al.**
Mahmud, Zafar *see* **Khan, K. H.**
Maindonald, John H. (*with* Pittelkow, Yvonne E.; Wilson, Susan R.) Some considerations for the design of microarray experiments. (English summary) (*see* **2004d:62008**)
Makhija, Neeta *see* **Grover, Gurprit**
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Manski, Charles F. Studying treatment response to inform treatment choice. (English summary) (*see* **2004f:62019**)
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— *see also* **Errata: "The equivalence of two proportions revisited"**
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Matchar, David B. *see* **Parmigiani, Giovanni et al.**
Mateev, Plamen S. (*with* Tarkka, Ina M.; Titianova, Ekaterina B.) Gait measurements and motor recovery after stroke. (English summary)
Matsushita, Tatsuru *see* **Sooriyarachchi, Marina Roshini et al.**
Mbulaiteye, Sam *see* **Pfeiffer, Ruth M. et al.**
McCabe, Edward R. B. *see* **Suchard, Marc A. et al.**
McPeek, Mary Sara (*with* Wu, Xiaodong; Ober, Carole) Best linear unbiased allele-frequency estimation in complex pedigrees. (English and French summaries)
Meester, Ronald (*with* Sjerps, Marjan) The evidential value in the DNA database search controversy and the two-stain problem. (English and French summaries)
Mehta, Cyrus R. *see* **Kim, KyungMann et al.**
Mesbah, Mounir (*with* Dupuy, Jean-François; Heutte, Natacha; Awad, Lucile) Joint analysis of longitudinal quality of life and survival processes.
van der Meulen, Egbert A. *see* **Benda, Norbert et al.**
Millikan, Randall E. *see* **Thall, Peter F. et al.**
Mishra, R. N. *see* **Yadava, K. N. S. et al.**
Mohanto, Parth P. *see* **Dewanji, Anup et al.**
Molenberghs, Geert Model families. (*see* **2004g:62010**)
— *see also* **Wouters, Luc et al.**; **Alonso, Ariel et al.** *and* **Burzykowski, Tomasz et al.**
Molinari, Nicolas (*with* Daurès, Jean-Pierre) In vitro fertilization with immune patients. (English summary)
Morgan, Byron J. T. (*with* Ridout, M. S.; Ruddock, L. W.) Models for yeast prions. (English and French summaries)
Mori, Mitsuyo *see* **Okamura, Hiroshi et al.**
Morris, Jeffrey S. (*with* Baggerly, Keith A.; Coombes, Kevin R.) Bayesian shrinkage estimation of the relative abundance of mRNA transcripts using SAGE. (English and French summaries)
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Mossel, Elchanan (*with* Steel, Michael Anthony) A phase transition for a random cluster model on phylogenetic trees. (English summary) **2004k:62252**
Möttönen, Jyrki *see* **Nummi, T.**
Mrózek, Adam *see* **Walichiewicz, Piotr et al.**
Mueller, Peter[2] *see* **Thall, Peter F. et al.**
Mukherjee, Bhramar *see* **Sinha, Samiran et al.**
Mutter, George L. *see* **Tadesse, Mahlet G. et al.**
Nadler, Samuel T. *see* **Lin, Yi**[5] **et al.**, (**2004e:62008**)
Namatame, Takashi (*with* Asahi, Yumi) Stochastic process model for medical decision-making. (English summary)
Natarajan, Loki (*with* Berry, Charles C.; Gasche, Christoph) Estimation of spontaneous mutation rates. (English and French summaries)
— *see also* **O'Quigley, John**
Nelson, David O. (*with* Fridlyand, Jane) Designing meaningful measures of read length for data produced by DNA sequencers. (English summary) (*see* **2004d:62008**)
Nelson, Paul R. *see* **Bailey, R. A.**
Neuhäuser, Markus Tests for genetic differentiation. (English summary)
Nevins, Joseph R. *see* **Dobra, Adrian et al.**
Newton, Michael A. (*with* Yang, Hyuna; Gorman, Patricia A.; Tomlinson, Ian; Roylance, Rebecca R.) A statistical approach to modeling genomic aberrations in cancer cells. (English summary) (*see* **2004g:62009**)
— (*with* Kendziorski, Christina) Parametric empirical Bayes methods for microarrays. (English summary) (*see* **2004e:62008**)
Nichol, Michael *see* **Jones, Jason et al.**

Nummi, T. (*with* Möttönen, Jyrki) Prediction of stem measurements of Scots pine. (English summary)
Ober, Carole *see* **McPeek, Mary Sara et al.**
O'Brien, Peter C. *see* **Karrison, Theodore G.**
Ochs, Michael F. Bayesian decomposition. (English summary) (*see* **2004e:62008**)
O'Connell, Michael *see* **Lee, Jae Kyun**, (**2004e:62008**)
Oh, Hyun Sook (*with* Ko, Seoung-Gon; Oh, Man-Suk) A Bayesian approach to assessing population bioequivalence in a 2×2 crossover design. (English summary)
Oh, Man-Suk *see* **Oh, Hyun Sook et al.**
Ohno-Machado, Lucila *see* **Zou, Kelly H. et al.**
Okamura, Hiroshi (*with* Kitakado, Toshihide; Hiramatsu, Kazuhiko; Mori, Mitsuyo) Abundance estimation of diving animals by the double-platform line transect method. (English and French summaries)
Ondategui-Parra, Silvia *see* **Zou, Kelly H. et al.**
O'Neill, Philip D. *see* **Becker, Niels G. et al.** *and* **Hayakawa, Yu et al.**
O'Quigley, John (*with* Natarajan, Loki) Erosion of regression effect in a survival study. (English and French summaries)
— *see also* **Paoletti, Xavier et al.**
Ozbek, Levent (*with* Efe, Murat) An adaptive extended Kalman filter with application to compartment models. (English summary)
Paoletti, Xavier (*with* O'Quigley, John; Maccario, Jean) Design efficiency in dose finding studies. (English summary)
Pardalos, Panos M. (*with* Sackellares, J. Chris; Iasemidis, Leonidas D.; Yatsenko, V. A.; Yang, Mark C. K.; Shiau, Deng-Shan; Chaovalitwongse, Wanpracha) Statistical information approaches for the modelling of the epileptic brain. (English summary) **2004d:62372**
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Park, Tae Sung *see* **Ha, Il Do et al.**
Parmigiani, Giovanni (*with* Garrett, Elizabeth S.; Irizarry, Rafael A.; Zeger, Scott L.) The analysis of gene expression data: an overview of methods and software. (English summary) (*see* **2004e:62008**)
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— *see also* **Garrett, Elizabeth S.**, (**2004e:62008**)
de Pasquale, Francesco (*with* Barone, Piero; Sebastiani, Giovanni; Stander, Julian) Bayesian analysis of dynamic magnetic resonance breast images. (English summary)
Patel, Megha *see* **Suchard, Marc A. et al.**
Pati, A. *see* **Tripathy, P. K.**
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Penttinen, Antti *see* **Kokki, Esa**
Pepe, Margaret Sullivan *see* **Dodd, Lori E.**
Perevozskaya, Inna *see* **Haines, Linda M. et al.**
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Perone Pacifico, Marco *see* **De Santis, Fulvio et al.**
Peters, Andrea (*with* Hothorn, Torsten; Lausen, Berthold) Glaucoma diagnosis by indirect classifiers. (English summary) (*see* **2004d:62005**)
Pevsner, Jonathan *see* **Bouton, Christopher M. L. S. et al.**, (**2004e:62008**) *and* **Colantuoni, Carlo et al.**, (**2004e:62008**)
Pfeiffer, Ruth M. (*with* Mbulaiteye, Sam; Engels, Eric) A model to estimate risk of infection with human herpesvirus 8 associated with transfusion from cross-sectional data. (English and French summaries)
Phang, Tzulip *see* **Kafadar, Karen**
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Pittelkow, Yvonne E. *see* **Maindonald, John H. et al.**, (**2004d:62008**)
(Poirier, Dale J.) *see* **Chib, Siddhartha**, (**2004g:62009**)
Polacheck, Tom *see* **Laslett, Geoff M. et al.**
Pollard, Katherine S. (*with* van der Laan, Mark J.) Statistical inference for simultaneous clustering of gene expression data. (English summary) (*see* **2004d:62006**)
Popovic, Natasa *see* **Apanasovich, Tatiyana V. et al.**
Pradel, Roger (*with* Wintrebert, Claire M. A.; Gimenez, Olivier) A proposal for a goodness-of-fit test to the Arnason-Schwarz multisite capture-recapture model. (English and French summaries) **2004c:62213**
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Prodanova, K. *see* **Atanasov, Dimitar et al.**
Prokop, Jennifer *see* **Braun, W. John et al.**
Proschan, Michael A. (*with* Follmann, Dean A.) A permutation approach to the Behrens-Fisher problem. (English summary)
Qian, Guoqi *see* **Li, Ning[5] et al.**, **2004e:62192** *and* **Huggins, Richard M. et al.**, (**2004c:62007**)
Quinn, Anthony *see* **Gebouský, Petr et al.**, (**2004g:62009**)
Rai, Shesh N. (*with* Sun, Jianguo; Hunt, Daniel) Analysis of occult tumour trial data with varying lethality. (English summary) (*see* **2004k:62018**)
— *see also* **Sun, Jianguo et al.**, (**2004k:62018**)
Ramanayake, Asoka (*with* Gupta, Arjun K.) Tests for an epidemic change in a sequence of exponentially distributed random variables. (English summary) **2004i:62180**
Ramoni, Marco F. *see* **Sebastiani, Paola et al.**, (**2004e:62008**)
Rao, Atmakuri Ramakrishna *see* **Kiran, P. Sandhya et al.**
Rao, J. N. K. *see* **Smith, Philip J. et al.**
Reed, William J. (*with* Hughes, Barry D.) Power-law distributions from exponential processes: an explanation for the occurrence of long-tailed distributions in biology and elsewhere. (English summary)
van Reenen, Kees *see* **Engel, Bas et al.**
Regan, Meredith M. (*with* Catalano, Paul J.) Combined continuous and discrete outcomes. (*see* **2004g:62010**)
Reineke, Achim *see* **Pigeot, Iris et al.**
Resnic, Frederic S. *see* **Zou, Kelly H. et al.**
Ridout, M. S. *see* **Morgan, Byron J. T. et al.**
Rosenbaum, Paul R. Design sensitivity in observational studies. (English summary)
Rosenberger, William F. *see* **Haines, Linda M. et al.** *and* **Hu, Fei Fang**
Rousson, Valentin *see* **Braun, W. John et al.**
Roylance, Rebecca R. *see* **Newton, Michael A. et al.**, (**2004g:62009**)
Ruddock, L. W. *see* **Morgan, Byron J. T. et al.**
Ruggeri, Fabrizio *see* **Ausín, M. Concepción et al.**, (**2004g:62009**)
Ruiz-Castro, Juan Eloy *see* **Pérez-Ocón, Rafael**
Ryan, Louise M. *see* **Corcoran, Chris**, (**2004g:62010**)
Sackellares, J. Chris *see* **Pardalos, Panos M. et al.**, **2004d:62372**
Sakamoto, Wataru *see* **Baba, Mitsumasa et al.**
Samanta, Tapas *see* **Dewanji, Anup et al.**
Sambucini, Valeria *see* **De Santis, Fulvio et al.**
Samsa, Gregory P. *see* **Parmigiani, Giovanni et al.**
Sarkans, Ugis *see* **Vilo, Jaak et al.**, (**2004e:62008**)
Scheike, Thomas H. (*with* Martinussen, Torben) Maximum likelihood estimation for Cox's regression model under case-cohort sampling. (English summary)
Schimek, Michael G. RIP-GAMS and classification trees in quantitative MRI. (English summary)
Schisterman, Enrique F. *see* **Liu, Aiyi et al.**
(Schmidler, Scott C.) *see* **Newton, Michael A. et al.**, (**2004g:62009**)
Schnittler, Hans J. *see* **Preuss, Roland et al.**, (**2004f:62019**)
Schwab, Albrecht *see* **Preuss, Roland et al.**, (**2004f:62019**)
Sebastiani, Giovanni *see* **de Pasquale, Francesco et al.**
Sebastiani, Paola (*with* Ramoni, Marco F.; Kohane, Isaac S.) Bayesian clustering of gene expression dynamics. (English summary) (*see* **2004e:62008**)
Self, Steven G. *see* **Wakefield, Jon C. et al.**, (**2004g:62009**)
Sen, Pranab Kumar[1] Bioinformatics: statistical perspectives and controversies. (English summary)
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— Bioinformatics: some challenging stochastic problems. (English summary)
Sertkaya, Durdu (*with* Sözer, M. Tekin) A Bayesian approach to the constant hazard model with a change point and an application to breast cancer data. (English summary)
Shanmugam, Ramalingam *see* **Bartolucci, Alfred A. et al.**
Sharples, Linda D. *see* **Jackson, Christopher H.**
Sheather, Simon *see* **Apanasovich, Tatiyana V. et al.**
Shi, Yuanjun *see* **Kosorok, Michael R. et al.**
Shiau, Deng-Shan *see* **Pardalos, Panos M. et al.**, **2004d:62372**
Shih, Joanna H. *see* **Albert, Paul S.**
Shih, Wei-Chung Joe *see* **Lu, Shou-En et al.**
Shimatani, Kenichiro *see* **Takahashi, Makoto**
Shinnar, Shlomo *see* **Ebrahimi, Nader et al.**
Shruti *see* **Yadava, K. N. S. et al.**
Simes, John *see* **Hudson, H. Malcolm et al.**
Simon, Itamar *see* **Bar-Joseph, Ziv et al.**, **2004m:62228**
Simpson, William Albert *see* **Braun, W. John et al.**
Singh, Karan P. *see* **Bartolucci, Alfred A. et al.**
Singh, Murari *see* **Malhotra, R. S. et al.**
Singh, Rajendra[3] (*with* Lal, Krishan; Farver, Thomas B.) A note on analysis of lactation curves for unequal lactation lengths. (English and Hindi summaries)
Sinha, Bikas K. *see* **Dewanji, Anup et al.**
Sinha, Samiran (*with* Mukherjee, Bhramar; Ghosh, Malay) Bayesian semiparametric modeling for matched case-control studies with multiple disease states. (English and French summaries)
Sinsheimer, Janet S. *see* **Suchard, Marc A. et al.**
Sisson, S. A. (*with* Hurn, Merrilee A.) Bayesian point estimation of quantitative trait loci. (English and French summaries)
Sjerps, Marjan *see* **Meester, Ronald**
Slocum, Harry K. *see* **White, Donald B. et al.**
Smith, Philip J. (*with* Hoaglin, David C.; Rao, J. N. K.; Battaglia, Michael P.; Daniels, Danni) Evaluation of adjustments for partial non-response bias in the US national immunization survey. (English summary)
Soltis, Douglas E. *see* **Soltis, Pamela S.**
Soltis, Pamela S. (*with* Soltis, Douglas E.) Applying the bootstrap in phylogeny reconstruction. (English summary)
Son, Young Nam (*with* Choi, Kuey Chung) Block designs for partial diallel crosses. (Korean. English and Korean summaries)
Sooriyarachchi, Marina Roshini (*with* Whitehead, John Raymond; Matsushita, Tatsuru; Bolland, Kim; Whitehead, Anne) Incorporating data received after a sequential trial has stopped into the final analysis: implementation and comparison of methods. (English and French summaries)
Sözer, M. Tekin *see* **Sertkaya, Durdu**
Stahl, Doug *see* **Jones, Jason et al.**
Stander, Julian *see* **de Pasquale, Francesco et al.**
Steel, Michael Anthony *see* **Mossel, Elchanan**, **2004k:62252**
Steele, Fiona Selection effects of source of contraceptive supply in an analysis of discontinuation of contraception: multilevel modelling when random effects are correlated with an explanatory variable. (English summary)

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Su, Fusheng *see* **Cheng, Yi[2] et al., 2004j:62217**
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Sun, Jianguo (*with* Zhao, Qiang[2]; Rai, Shesh N.) A nonparametric comparison of tumor incidences with intermediate lethality and different death rates. (English summary) (*see* **2004k:62018**)
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Sun, Ning[3] *see* **Zhao, Hongyu et al., (2004d:62008)**
Sutton, Brian C. *see* **Jones, Shelton M. et al., (2004k:62018)**
Tadesse, Mahlet G. (*with* Ibrahim, Joseph G.; Mutter, George L.) Identification of differentially expressed genes in high-density oligonucleotide arrays accounting for the quantification limits of the technology. (English and French summaries)
Takahashi, Makoto (*with* Shimatani, Kenichiro) Spatial statistics for within-population genetic structure of tree species using genetic markers. (Japanese. English and Japanese summaries)
Tan, Wai Y. (*with* Ke, Weiming) State space models for survival analysis.
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Tang, Man-Lai *see* **Chan, Ivan S. F. et al.**
Tang, Nian-Sheng *see* **Chan, Ivan S. F. et al.**
Tarkka, Ina M. Multiple dipole source models for scalp-recorded event-related potentials: example from complex visual processing in the human brain. (English summary)
— *see also* **Mateev, Plamen S. et al.**
Taylor, G. J. *see* **Faddy, Malcolm J.**
Tebbs, Joshua M. *see* **Moser, Barry K.**
Teoh, Eric *see* **Liu, Aiyi et al.**
Terziiski, D. *see* **Atanasov, Dimitar et al.**
Thall, Peter F. (*with* Millikan, Randall E.; Mueller, Peter[2]; Lee, Sang-Joon[1]) Dose-finding with two agents in Phase I oncology trials. (English and French summaries)
Thompson, Elizabeth A. *see* **George, A. W.**
Thompson, Mary E. *see* **Horrocks, Julie**
Thorne, Natalie P. *see* **Yang, Yee Hwa, (2004d:62008)**
Thornwall, Greogory C. *see* **Lemkin, Peter F. et al., (2004e:62008)**
Tibshirani, Robert *see* **Storey, John D., (2004e:62008)**
Titianova, Ekaterina B. *see* **Mateev, Plamen S. et al.**
(Tobias, Justin L.) *see* **Chib, Siddhartha, (2004g:62009)**
Tomaszyk, Kamila *see* **Pilarczyk, Wiesław et al., (2004c:62006)**
Tomlinson, Ian *see* **Newton, Michael A. et al., (2004g:62009)**
Totten, Patricia *see* **Hughes, James P.**
Town, Robert J. *see* **Geweke, John et al.**
Tremmel, Lothar *see* **Berger, Vance W. et al.**
Tripathy, P. K. (*with* Pati, A.) Individual vs community based correlates of contraceptive in rural India—a focus on Bihar, Madhya Pradesh, Rajasthan, Uttar Pradesh and Orissa. (English summary)
Tsai, Chen-An (*with* Hsueh, Huey-Miin; Chen, James J.) Estimation of false discovery rates in multiple testing: application to gene microarray data. (English and French summaries)
Tsiatis, Anastasios A. *see* **Leon, Selene et al.; Kim, KyungMann et al.** *and* **Wahed, Abdus S.**
Tsuda, Koji (*with* Akaho, Shotaro; Asai, Kiyoshi[2]) The *em* algorithm for kernel matrix completion with auxiliary data. (English summary)
Tsvetanova, Yanka (*with* Grozeva, Neli) Classification of *Chenopodium* genus populations and species based on continuous and categorical variables. (English summary)
Turner, Nancy D. *see* **Apanasovich, Tatiyana V. et al.**
Upton, Darren *see* **Hayakawa, Yu et al.**
Vangeneugden, Tony *see* **Alonso, Ariel et al.**
Vannucci, Marina *see* **Morris, Jeffrey S. et al.**
Vansteelandt, S. (*with* Goetghebeur, E.) Causal inference with generalized structural mean models. (English summary)
Vilo, Jaak (*with* Kapushesky, Misha; Kemmeren, Patrick; Sarkans, Ugis; Brazma, Alvis) Expression profiler. (English summary) (*see* **2004e:62008**)
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Wahed, Abdus S. (*with* Tsiatis, Anastasios A.) Optimal estimator for the survival distribution and related quantities for treatment policies in two-stage randomization designs in clinical trials. (English and French summaries)
Wakefield, Jon C. (*with* Zhou, Chuan[2]; Self, Steven G.) Modelling gene expression data over time: curve clustering with informative prior distributions. (English summary) (*see* **2004g:62009**)
Walichiewicz, Piotr (*with* Mrózek, Adam; Drwal, Grzegorz) Statistical and deterministic aspects of treatment decision making in patients with multivessel coronary artery disease. (English summary)
Walker, Agnes E. Modelling health inequalities using dynamic microsimulation: statistical issues and future scope. (English summary)
Wang, Kai[4] *see* **Huang, Jian[1], (2004j:62009)**
Wang, Mei-Cheng *see* **Huang, Yijian**
Wang, Yuedong (*with* Ke, Chunlei; Brown, Morton B.) Shape-invariant modeling of circadian rhythms with random effects and smoothing spline ANOVA decompositions. (English and French summaries)
Wassmer, Gernot *see* **Coburger, Silke**
Wawro, Nina *see* **Pigeot, Iris et al.**
Weir, B. S. *see* **Czika, Wendy**
Weiss, Robert E. *see* **Suchard, Marc A. et al.**
Wen, Sijin *see* **Do, Kim-Anh et al., (2004e:62008)**
West, Mike *see* **Dobra, Adrian et al.**
White, Donald B. (*with* Faessel, Hélène M.; Slocum, Harry K.; Khinkis, Leonid; Greco, William R.) Nonlinear response surface and mixture experiment methodologies applied to the study of synergism. (English summary)
Whitehead, Anne *see* **Sooriyarachchi, Marina Roshini et al.**
Whitehead, John Raymond *see* **Sooriyarachchi, Marina Roshini et al.**
Wiatr, Kazimierz *see* **Pilarczyk, Wiesław et al., (2004c:62006)**
Wilson, Simon P. Modeling the reliability of hip replacements. (English summary)
Wilson, Susan R. (*with* Huttley, Gavin A.) Non-replicability of disease gene results: a modelling perspective. (English summary)
— *see also* **Maindonald, John H. et al., (2004d:62008)**
Wintrebert, Claire M. A. *see* **Pradel, Roger et al., 2004c:62213**
Wiper, Michael P. *see* **Ausin, M. Concepción et al., (2004g:62009)**
Wodny, Michael *see* **Biebler, Karl-Ernst et al.**
Wong, Wing Hung *see* **Li, Cheng[1], (2004e:62008)**
Wouters, Luc (*with* Göhlmann, Hinrich W.; Bijnens, Luc; Kass, Stefan U.; Molenberghs, Geert; Lewi, Paul J.) Graphical exploration of gene expression data: a comparative study of three multivariate methods. (English and French summaries)
Wu, Baolin *see* **Zhao, Hongyu et al., (2004d:62008)**
Wu, Hao (*with* Kerr, M. Kathleen; Cui, Xiangqin; Churchill, Gary A.) MAANOVA: a software package for the analysis of spotted cDNA microarray experiments. (English summary) (*see* **2004e:62008**)
Wu, Xiaodong *see* **McPeek, Mary Sara et al.**
Xia, Yingcun A childhood epidemic model with birthrate-dependent transmission. (English summary) (*see* **2004j:62009**)
Xie, Jun (*with* Li, Ker-Chau; Bina, Minou) A Bayesian insertion/deletion algorithm for distant protein motif searching via entropy filtering. (English summary)
Xie, Min-Yu *see* **Li, Zhaohai et al., 2004m:62231**
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Yanagihara, Hirokazu (*with* Yoshimoto, Atsushi) Applicability of a GMANOVA model to tree diameter growth analysis. (Japanese. English and Japanese summaries)
Yandell, Brian S. *see* **Lin, Yi[5] et al., (2004e:62008)**
Yang, Hyuna *see* **Newton, Michael A. et al., (2004g:62009)**
Yang, Mark C. K. *see* **Pardalos, Panos M. et al., 2004d:62372**
Yang, Yee Hwa (*with* Thorne, Natalie P.) Normalization for two-color cDNA microarray data. (English summary) (*see* **2004d:62008**)
— *see also* **Dudoit, Sandrine, (2004e:62008)**
Yao, Guang *see* **Dobra, Adrian et al.**
Yatsenko, V. A. *see* **Pardalos, Panos M. et al., 2004d:62372**
Yip, Paul S. F. *see* **Liu, Li Ping[4], 2004b:62227** *and* **Hayakawa, Yu et al.**
Yoshimoto, Atsushi *see* **Yanagihara, Hirokazu**
Zeger, Scott L. *see* **Parmigiani, Giovanni et al., (2004e:62008)** *and* **Colantuoni, Carlo et al., (2004e:62008)**
Zhang, He Ping[1] (*with* Feng, Rui; Zhu, Hong-Tu) A latent variable model of segregation analysis for ordinal traits. (English summary) **2004k:62253**
Zhang, Lijun *see* **Tan, Wai Y. et al.**
Zhang, Xu[3] *see* **Ebrahimi, Nader et al.**
Zhao, Hongyu (*with* Wu, Baolin; Sun, Ning[3]) DNA-protein binding and gene expression patterns. (English summary) (*see* **2004d:62008**)
Zhao, Qiang[2] *see* **Sun, Jianguo et al., (2004k:62018)**
Zheng, Shu-Rong (*with* Ma, Wen-Qing) Test of safety under unequal variances in toxicological studies. **2004c:62214**
Zhou, Chuan[2] *see* **Wakefield, Jon C. et al., (2004g:62009)**
Zhou, Jin *see* **Basawa, Ishwar V.**
Zhou, Yan Yan *see* **Berger, Vance W. et al.**
Zhu, Hong-Tu *see* **Zhang, He Ping[1] et al., 2004k:62253**
Ziehe, Martin *see* **Gregorius, Hans-Rolf et al.**
Zierer, Astrid *see* **Pigeot, Iris et al.**
Zou, Kelly H. (*with* Resnic, Frederic S.; Gogate, Adheet S.; Ondategui-Parra, Silvia; Ohno-Machado, Lucila) Efficient Bayesian sample size calculation for designing a clinical trial with multi-cluster outcome data. (English summary)
Zouvani, I. *see* **Vonta, Filia et al., (2004i:00008)**

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Errata:
"The equivalence of two proportions revisited" Erratum: "The equivalence of two proportions revisited" [J. Appl. Stat. **31** (2004), no. 1, 61–72] by A. Martín Andrés and I. Herranz Tejedor.

Items with secondary classifications in 62P10

Abramson, Ian (*with* Wolfson, Tanya; the HNRC Group) A likelihood approximation and shrinkage for unbalanced repeated measures. (English summary) **2004e:62038**
Achcar, Jorge Alberto *see* **Wruck, Emerson et al.**
Adam, Bao-Ling *see* **Yasui, Yutaka et al.**
Aerts, Marc *see* **Shkedy, Ziv et al.** *and* **Claeskens, Gerda et al., (2004g:62010)**
Ager, Alan A. *see* **Brillinger, David R. et al., 2004m:62232**
Aita, Takuyo (*with* Husimi, Yuzuru) Statistical formulae of the energy distribution among a globular protein structure ensemble. (English summary)
Albert, Michael H. (*with* Le, Huiling; Small, Christopher G.) Assessing landmark influence on shape variation. (English summary) **2004h:62007**
Albert, Paul S. (*with* Dodd, Lori E.) A cautionary note on the robustness of latent class models for estimating diagnostic error without a gold standard. (English and French summaries)
Alexander, Daniel C. *see* **Jansons, Kalvis M.**
Al-Saidy, Obaid M. (*with* Piegorsch, Walter W.; West, R. Webster; Nitcheva, Daniela K.) Confidence bands for low-dose risk estimation with quantal response data. (English and

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Arjas, Elja *see* **Härkänen, Tommi et al.**
Arulampalam, Wiji (*with* Naylor, Robin A.; Smith, Jeremy P.) A hazard model of the probability of medical school drop-out in the UK. (English summary)
(Ashby, Deborah) *see* **Carlin, Bradley P., (2004g:62009)**
Balasooriya, Uditha *see* **Howlader, Hatem A.**
Baldi Antognini, A. (*with* Bodini, Antonella; Giovagnoli, A.) New indicators of imbalance and selection bias in randomized sequential designs: comparison of various biased coin designs. (Italian. English and Italian summaries)
Balding, David J. *see* **Wilson, Ian J. et al., 2004e:92016**
Bandyopadhyay, Uttam (*with* Biswas, Atanu) Non-parametric group sequential designs in randomized clinical trials. (English summary)
Banerjee, Sudipto *see* **Carlin, Bradley P., (2004g:62009)**
Bar-Lev, Shaul K. (*with* Stadje, Wolfgang; van der Duyn Schouten, Frank A.) Hypergeometric group testing with incomplete information. (English summary) **2004d:62026**
Barry, Daniel *see* **Hannigan, A. et al.**
Bauer, Marcus *see* **Gather, Ursula et al., 2004j:62176**
Bauer, Peter H. *see* **Brannath, W. et al., 2004c:62168**
Benali, H. *see* **Marrelec, G. et al., 2004a:62069**
Benfenati, Emilio *see* **Gini, Giuseppina et al., (2004j:62010)**
Berger, Kenneth I. *see* **Scott, Marc A. et al.**
Berhane, Kiros (*with* Weissfeld, Lisa A.) Inference in spline-based models for multiple time-to-event data, with applications to a breast cancer prevention trial. (English and French summaries)
Berry, Donald A. *see* **Berry, Scott M.**
Berry, Scott M. (*with* Berry, Donald A.) Accounting for multiplicities in assessing drug safety: a three-level hierarchical mixture model. (English and French summaries)
Beutels, Philippe *see* **Shkedy, Ziv et al.**
Bhar, Lalmohan (*with* Dey, Amitava) Robustness of block designs for diallel crosses against missing data. (English summary) **2004a:62144**
Bhatia, V. K. *see* **Kumar Paul, Amrit**
Biswas, Atanu Theoretical and computational issues in Bayesian analysis of multivariate ordinal categorical data with reference to an ophthalmologic study. (English summary) (*see* **2004k:62018**)
— *see also* **Bandyopadhyay, Uttam** *and* **Sheng, Xiaoming et al.**
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Bodini, Antonella *see* **Baldi Antognini, A. et al.**
Bogdanov, A. I. On a mathematical model for forecasting cyclic processes. (Russian. English and Russian summaries)
Böhning, Dankmar *see* **Schlattmann, Peter et al., (2004f:62020)**
Bois, Frédéric Y. *see* **Mezzetti, Maura et al.**
Boldrick, Jennifer C. *see* **Dudoit, Sandrine et al.**
Bompadre, S. *see* **Ferrante, L. et al., 2004b:60146**
Bouza Herrera, Carlos N. (*with* Schubert, Leo) The estimation of biodiversity and the characterization of the dynamics: an application to the study of a pest. (English and Portuguese summaries)
Boyett, James *see* **Xiong, Xiaoping et al.**
Brambilla, Raffaella *see* **Gini, Giuseppina et al., (2004j:62010)**
Brannath, W. (*with* Bauer, Peter H.; Maurer, Willi; Posch, Martin) Sequential tests for noninferiority and superiority. (English and French summaries) **2004c:62168**
Brattey, J. *see* **Cadigan, N. G.**
Brent, David *see* **Chen, Tuhao J. et al., 2004i:62133**
Brillinger, David R. (*with* Preisler, Haiganoush K.; Ager, Alan A.; Kie, John G.) The use of potential functions in modelling animal movement. (English summary) **2004m:62232**
Brumback, Babette (*with* Greenland, Sander; Redman, Mary; Kiviat, Nancy; Diehr, Paula) The intensity-score approach to adjusting for confounding. (English and French summaries) **2004d:62027**
Brunner, Edgar (*with* Puri, Madan L.) Point- and interval estimators for nonparametric treatment effects in designs with repeated measures. (English summary) **2004k:62101**
Buchholz, Bruce A. *see* **Yao, Fang[2] et al.**
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Burnett, Richard T. *see* **Cakmak, Sabit et al., (2004k:62018)**
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van der Duyn Schouten, Frank A. *see* **Bar-Lev, Shaul K. et al., 2004d:62026**
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Fan, Juanjuan *see* **Su, Xiaogang**
Fan, Qiao *see* **Hodges, James S. et al.**, **2004d:62200**
Fang, Hong-Bin *see* **Sun, Jianguo**, **2004b:62126**
Fang, Ji Qian *see* **Jin, Hua et al.**, **2004h:62045**
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Finos, Livio (*with* Salmaso, Luigi) Nonparametric multi-focus analysis for categorical variables. (English summary)
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Fortpied, Catherine *see* **Duchateau, Luc et al.**
Freidlin, Boris *see* **Zheng, Gang[1] et al.**, **2004d:62074**
Fried, Roland *see* **Gather, Ursula et al.**, **2004j:62176**
Frigyesi, Attila ★ Topics in multifractal measures, nonparametrics and biostatistics. **2004m:62004**
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Gatsonis, C. *see* **Dukic, V.**
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Geys, Helena *see* **Williams, Paige L.**, (**2004g:62010**)
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Gladman, Dafna D. *see* **Farewell, Vernon T. et al.** *and* **Cook, Richard J. et al.**
Glynn, Robert J. *see* **Rosner, Bernard et al.**, **2004j:62098**
Gnant, Michael *see* **Heinze, Georg et al.**
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Gorlova, Olga Y. *see* **Kimmel, Marek**
Goto, Masashi *see* **Kawai, Norisuke** *and* **Hamasaki, Toshimitsu**
Goussanou, Franck *see* **Garel, Bernard**, **2004h:62032**
Govindarajulu, Z. Robustness of a sample size re-estimation procedure in clinical trials. (English summary) **2004d:62030**
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Hopcraft, K. I. *see* **Jakeman, E. et al.**, **2004f:60031**
Hoppe, Fred M. *see* **Chen, Tuhao J. et al.**, **2004i:62133**
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Hsu, Li *see* **Yasui, Yutaka et al.**
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Hu, Chengcheng (*with* Lin, Danyu) Semiparametric failure time regression with replicates of mismeasured covariates. (English summary) **2004m:62217**
Huber, Wolfgang[2] *see* **von Heydebreck, Anja et al.**, (**2004a:62009**)
Huffer, Fred W. *see* **Doss, Hani**, **2004d:65012**
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Isseroff, R. Rivkah *see* **Ionides, Edward L. et al.**, **2004m:92005**
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Iyengar, Satish *see* **Chen, Tuhao J. et al.**, **2004i:62133**
Iyer, Hari K. *see* **Gadbury, Gary L.**, **2004d:62250**
Jacob, C. *see* **Lalam, N. et al.**, **2004m:60184**
Jagers, Peter *see* **Lalam, N. et al.**, **2004m:60184**
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Johnson, Wesley O. *see* **Gönen, Mithat et al.**, **2004c:62047** *and* **Hanson, Timothy**
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Joyce, Paul (*with* Krone, Stephen M.; Kurtz, Thomas G.) When can one detect overdominant selection in the infinite-alleles model? (English summary) **2004c:60059**
Kaiser, Mark S. *see* **Zhu, Jun[5] et al.**
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Kelly, Dave *see* **Buonaccorsi, John P. et al.**
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Kezic, Iva *see* **Duchateau, Luc et al.**
Kie, John G. *see* **Brillinger, David R. et al.**, **2004m:62232**
Kieser, M. *see* **Victor, N.**
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Kim, Jinheum *see* **Yin, Guosheng et al.**, **2004f:62190**
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Kiviat, Nancy *see* **Brumback, Babette et al.**, **2004d:62027**
Klein, John P. (*with* Wu, Jing-Tao) Discretizing a continuous covariate in survival studies.
Koenig, Walt *see* **Buonaccorsi, John P. et al.**
Komorowski, Jan *see* **Midelfart, Herman et al.**
Kozubowski, Tomasz J. *see* **Jammalamadaka, Sreenivasa Rao**, **2004d:62202**
Krewski, Daniel *see* **Cakmak, Sabit et al.**, (2004k:62018)
Kribs-Zaleta, Christopher *see* **Del Valle, Sara et al.**
Krone, Stephen M. *see* **Joyce, Paul et al.**, **2004c:60059**
Kukush, A. G. (*with* Mishura, Yuliya S.) Asymptotic efficiency of statistical estimators in a compound Poisson model. (Ukrainian. Ukrainian summary) **2004j:62102**
Kumar Paul, Amrit (*with* Bhatia, V. K.) Estimation of heritability using some auxiliary traits in dairy cattle. (English and Hindi summaries)
Kupper, Lawrence L. *see* **Jiroutek, Michael R. et al.**, **2004g:62063**
Kurtz, Thomas G. *see* **Joyce, Paul et al.**, **2004c:60059**
van der Laan, Mark J. *see* **Molinaro, Annette M. et al.**
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Lægreid, Astrid *see* **Midelfart, Herman et al.**
Lahiri, P. (*with* Maiti, Tapabrata) Empirical Bayes estimation of relative risks in disease mapping. (English summary) **2004g:62025**
(Lai, Tze Leung) *see* **Perlman, Michael D.**
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Lau, Tai Shing *see* **Guo, Jianhua et al.**
Lauritzen, Steffen L. (*with* Sheehan, Nuala A.) Graphical models for genetic analyses. (English summary)
Lausen, Berthold *see* **Peters, Andrea**
Lawless, Jerald F. *see* **Farewell, Vernon T. et al.** *and* **He, Wenqing**
Lawson, Andrew B. *see* **Clark, A. B.**, (**2004f:62020**)
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Le, Huiling *see* **Albert, Michael H. et al.**, **2004h:62007**
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Lee, Deukhwan *see* **Lee, Seung-Chun**, **2004g:62059**
Lee, Elisa T. (*with* Wang, John Wenyu) ★ Statistical methods for survival data analysis. **2004b:62003**
Lee, Ker-Ai *see* **Cook, Richard J. et al.**
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Lee, Sik-Yum *see* **Song, Xin-Yuan**
Lee, Yonghee (*with* Shao, Jun[1]; Chow, Shein-Chung) Modified large-sample confidence intervals for linear combinations of variance components: extension, theory, and application. (English summary)
Lehtilä, Kari *see* **Pineda-Krch, Mario**
Leite, José Galvão *see* **Zacharias, Helder Paulo et al.**, **2004h:62055** *and* **da-Silva, Cibele Q. et al.**
Leone, L. *see* **Ferrante, L. et al.**, **2004b:60146**
Levin, Bruce *see* **Fleiss, Joseph L. et al.**
Li, Lei[2] Blind inversion needs distribution (BIND): general notion and case studies. (English summary) (*see* **2004d:62008**)
Li, Linxiong Linear regression analysis with observations subject to interval censoring. (English summary) **2004m:62219**
Li, Yan (*with* Zelterman, Daniel; Forsyth, Brian W. C.) Analyzing multiply matched cohort studies with two different comparison groups: application to pregnancy rates among HIV+ women. (English and French summaries)
Li, Zhaohai *see* **Zheng, Gang[1] et al.**, **2004d:62074**
Liang, Hua *see* **Wu, Hulin**, **2004k:62126**
Liang, Kung-Yee *see* **Diggle, Peter J. et al.**
Liechty, John C. (*with* Liechty, Merrill W.; Müller, Peter[2]) Bayesian correlation estimation. (English summary)
Liechty, Merrill W. *see* **Liechty, John C. et al.**
Lin, Danyu *see* **Hu, Chengcheng**, **2004m:62217** *and* **Ghosh, Debashis**
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Lin, Yumei *see* **Yao, Fang[2] et al.**
Lindley, Dennis V. A holistic analysis of Poisson data with application to a trial of selenium and cancer deaths. (English summary) **2004f:62078**
Lindsay, Bruce G. *see* **Mao, Chang Xuan**
Lipsitz, Stuart R. *see* **Lin, Hung-Mo et al.**
Liu, Aiyi (*with* Schisterman, Enrique F.) Comparison of diagnostic accuracy of biomarkers with pooled assessments. (English summary) **2004f:62136**
Liu, Shih Hua *see* **Fu, Chong Yau**, (**2004k:62018**)
Liu, Wei[7] *see* **Wan, Xin Rong et al.**
Loeys, T. *see* **Goetghebeur, E.**
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Lorenzini, Marco *see* **Gini, Giuseppina et al.**, (**2004j:62010**)
Louzada Neto, Francisco A hybrid scale intensity model for recurrent event data. (English summary)
Lu, Zuhong *see* **Xie, Xueying et al.**
Luo, Zhehui *see* **Gardiner, Joseph C. et al.**, **2004d:62114**
Ma, Renjun *see* **Cakmak, Sabit et al.**, (**2004k:62018**)
Ma, Yanping *see* **Guo, Jianhua et al.**
Mahjub, Hossein (*with* Cox, Trevor F.) Screening for a multivariate mixture normal distribution. (English and Persian summaries) **2004e:62119**
Maiti, Tapabrata *see* **Lahiri, P.**, **2004g:62025**
Malvé, Luca *see* **Gini, Giuseppina et al.**, (**2004j:62010**)
Manatunga, Amita K. *see* **Gao, Feng[2] et al.**
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Mao, Chang Xuan (*with* Lindsay, Bruce G.) Diagnostics for the homogeneity of inclusion probabilities in a Bernoulli census. (English summary)
Marrelec, G. (*with* Benali, H.; Ciuciu, P.; Poline, J.-B.) Bayesian estimation of the hemodynamic response function in the functional MRI. (English summary) **2004a:62069**
Martínez García, María Lina *see* **Girón González-Torre, Francisco Javier et al.**, **2004i:62053**
Matthews, J. O. *see* **Jakeman, E. et al.**, **2004f:60031**
Maurer, Willi *see* **Brannath, W. et al.**, **2004c:62168**
McCulloch, Charles E. *see* **Lin, Haiqun et al.**
McDonald, John W. *see* **Ekholm, Anders et al.**
McKeague, Ian W. *see* **Loizeaux, Marc A.**, **2004g:62028**
Melas, V. B. *see* **Dette, Holger et al.**, **2004d:62257**
Mesbah, Mounir *see* **Hardouin, J.-B.**
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Miglioretti, Diana L. Latent transition regression for mixed outcomes. (English and French summaries)
Milan, Luiz Aparecido *see* **da-Silva, Cibele Q. et al.**
Mishura, Yuliya S. *see* **Kukush, A. G.**, **2004j:62102**

Moffitt, L. Joe *see* **Karavas, Vassilios N.**
Molenberghs, Geert *see* **Tibaldi, Fabián S. et al.** *and* **Shkedy, Ziv et al.**
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Montenegro, L. C. C. (*with* Colosimo, Enrico Antônio; Cordeiro, Gauss Moutinho; Cruz, F. R. B.) Bias correction in the Cox regression model. (English summary)
Morales Evangelista, Arlene *see* **Del Valle, Sara et al.**
Moreira, Ayrton C. *see* **Wruck, Emerson et al.**
Moreno Bas, Elias *see* **Girón González-Torre, Francisco Javier et al., 2004i:62053**
Müller, Hans-Georg *see* **Chiou, Jeng-Min et al., 2004k:62106** *and* **Yao, Fang[2] et al.**
Muller, Keith E. *see* **Jiroutek, Michael R. et al., 2004g:62063**
Müller, Peter[2] *see* **Lopes, Hedibert Freitas et al., 2004d:62099** *and* **Liechty, John C. et al.**
Munk, Axel On a problem in pharmaceutical statistics and the iteration of a peculiar nonlinear operator in the upper complex halfplane. (English summary) **2004d:62071**
Narasimhan, Balasubramanian *see* **Hastie, Trevor J. et al., (2004a:62009)** *and* **Tibshirani, Robert et al.**
Naylor, Robin A. *see* **Arulampalam, Wiji et al.**
Neuhaus, John *see* **Paulino, Carlos Daniel et al.**
Newton, Michael A. On a nonparametric recursive estimator of the mixing distribution. (English summary) **2004d:62156**
Ngo, Long *see* **Mezzetti, Maura et al.**
Nguyen, Danh V. (*with* Rocke, David M.) On partial least squares dimension reduction for microarray-based classification: a simulation study. (English summary)
Nitcheva, Daniela K. *see* **Al-Saidy, Obaid M. et al.**
Norman, Robert G. *see* **Scott, Marc A. et al.**
Norris, James L. *see* **Pledger, Shirley et al.**
Norsett, Kristin *see* **Midelfart, Herman et al.**
O'Brien, Liam M. (*with* Fitzmaurice, Garrett M.) Analysis of longitudinal multiple-source binary data using generalized estimating equations. (English summary)
Ogutu, J. O. *see* **Piepho, Hans-Peter**
Ohta, Eri *see* **Hirotsu, Chihiro et al.**
Olman, V. (*with* Xu, Dong[1]; Xu, Ying[1]) Solving data clustering problem as a string search problem. (English summary) (*see* **2004j:62012**)
O'Mullane, D. M. *see* **Hannigan, A. et al.**
Oster, George F. *see* **Ionides, Edward L. et al., 2004m:92005**
Owzar, Kouros (*with* Sen, Pranab Kumar[1]) Copulas: concepts and novel applications. (English summary)
Padovani, C. R. *see* **Rosa, G. J. M. et al.**
Paik, Myunghee Cho *see* **Fleiss, Joseph L. et al.**
Palta, Mari ★ Quantitative methods in population health.
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Park, Tae Sung *see* **Green, Paul E.**
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Pedersen, Jan *see* **Hobolth, Asger et al.**
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Peterson, Derick R. (*with* Zhao, Hongwei; Eapen, Sara) Using local correlation in kernel-based smoothers for dependent data. (English and French summaries)
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Poline, J.-B. *see* **Marrelec, G. et al., 2004a:62069**
Pollock, Kenneth H. *see* **Pledger, Shirley et al.**
Pope, Arden, III *see* **Cakmak, Sabit et al., (2004k:62018)**
Posch, Martin *see* **Brannath, W. et al., 2004c:62168**
Poustka, Annemarie *see* **von Heydebreck, Anja et al., (2004a:62009)**
Preisler, Haiganoush K. *see* **Brillinger, David R. et al., 2004m:62232**
Prescott, Philip *see* **Mansson, Ralph**
Puri, Madan L. *see* **Brunner, Edgar, 2004k:62101**
Qin, Jing[1] (*with* Zhang, Biao[2]) Using logistic regression procedures for estimating receiver operating characteristic curves. (English summary) **2004f:62096**
Rabe-Hesketh, Sophia *see* **Landau, Sabine et al.**
Rao, J. Sunil *see* **Ishwaran, Hemant, 2004e:62128**
Redman, Mary *see* **Brumback, Babette et al., 2004d:62027**
Renard, Didier *see* **Tibaldi, Fabián S. et al.**
Rocke, David M. *see* **Nguyen, Danh V.**
Rodrigues, Josemar *see* **da-Silva, Cibele Q. et al.**
Roeder, Kathryn *see* **Tzeng, Jung-Ying et al., 2004a:62053**
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Rosenberger, William F. (*with* Rukhin, Andrew. L.) Bias properties and nonparametric inference for truncated binomial randomization. (English summary) **2004i:62096**
Rosenheck, Robert A. *see* **Lin, Haiqun et al.**
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Rosner, Gary L. *see* **Lopes, Hedibert Freitas et al., 2004d:62099**
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Rukhin, Andrew. L. *see* **Rosenberger, William F., 2004i:62096**
Ruppert, David *see* **Staudenmayer, John**
Ruseckaite, Rasa Computational methods for epilepsy diagnosis. Visual perception and EEG. (English summary) (*see* **2004b:90008**)
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Salmaso, Luigi *see* **Finos, Livio**
Sandvik, Arne K. *see* **Midelfart, Herman et al.**
Satten, Glen A. *see* **Datta, Somnath et al., (2004a:62007)**
Schemper, Michael *see* **Heinze, Georg et al.**
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Schott, James R. Weighted chi-squared tests for partial common principal component subspaces. (English summary) **2004d:62217**
Schubert, Leo *see* **Bouza Herrera, Carlos N.**
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Sen, Pranab Kumar[1] *see* **Owzar, Kouros**
Sengupta, Debasis *see* **Dewanji, Anup, 2004i:62175**
Shaffer, Juliet Popper *see* **Dudoit, Sandrine et al.**
Shao, Jun[1] *see* **Chow, Shein-Chung et al., 2004d:62065** *and* **Lee, Yonghee et al.**
Sheehan, Nuala A. *see* **Lauritzen, Steffen L.**
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Shestakov, O. V. On the uniqueness of the reconstruction of the probability characteristics of multidimensional random functions from the probability characteristics of their projections. (Russian. Russian summary) **2004j:62111**
Shi, Ning-Zhong *see* **Guo, Jianhua et al.**
Shimizu, Kenichiro *see* **Hirotsu, Chihiro et al.**
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Shnaidman, Michael *see* **Gelman, Andrew et al.**
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Singh, Bishwambhar Estimation of heritability in heteroscedastic one-way unbalanced random model. (English summary)
Singh, Karan P. *see* **Famoye, Felix**
Sinsheimer, Janet S. *see* **Suchard, Marc A. et al.**
Small, Christopher G. *see* **Albert, Michael H. et al., 2004h:62007**
Smith, Jeremy P. *see* **Arulampalam, Wiji et al.**
Smith, Peter W. F. *see* **Ekholm, Anders et al.**
Smith, Thomas J. *see* **Mezzetti, Maura et al.**
Soares, Paulo *see* **Paulino, Carlos Daniel et al.**
Song, Xin-Yuan (*with* Lee, Sik-Yum) Local influence analysis of two-level latent variable models with continuous and polytomous data. (English summary)
Sork, Victoria *see* **Buonaccorsi, John P. et al.**
Sparacino, Giovanni *see* **Pillonetto, Gianluigi et al., 2004e:92011**
Speed, Terence P. *see* **Ge, Yongchao et al.**
Spiegelman, Donna *see* **Zucker, David M.**
Stadje, Wolfgang *see* **Bar-Lev, Shaul K. et al., 2004d:62026**
Stanghellini, Elena (*with* van der Heijden, Peter G. M.) A multiple-record systems estimation method that takes observed and unobserved heterogeneity into account. (English and French summaries)
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Stern, Hal S. *see* **Wright, Deanne L. et al.**
Stewart, Paul W. *see* **Jiroutek, Michael R. et al., 2004g:62063**
Stijnen, Theo *see* **Tibaldi, Fabián S. et al.**
Strigul, Nikolai *see* **Dette, Holger et al., 2004d:62257**
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Sun, Xiao *see* **Xie, Xueying et al.**
Swallow, William H. *see* **Tebbs, Joshua M.**
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Tan, Ming *see* **Xiong, Xiaoping et al., 2004j:62167**
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Torres Ruiz, F. *see* **Girón González-Torre, Francisco Javier et al., 2004i:62053**
Troendle, James F. (*with* Yu, Kai F.) Estimation of sample size for reference interval studies. (English summary)
Tsiatis, Anastasios A. *see* **Johnson, Brent A.**
(Tubert-Bitter, Pascale) *see* **Perlman, Michael D.**
Turnbull, Bruce W. (*with* Jiang, Wenxin) Indirect inference for survival data. (English and Catalan summaries)
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Urowitz, Murray B. *see* **Farewell, Vernon T. et al.**
Van Damme, Pierre *see* **Shkedy, Ziv et al.**
(Vehtari, Aki) *see* **Carlin, Bradley P., (2004g:62009)**
Velasco, Maria Cristina *see* **Del Valle, Sara et al.**
Vespignani, Alessandro *see* **Pastor-Satorras, Romualdo, (2004f:00010)**
Viana, Marlos A. G. Invariance conditions for random curvature models. (English summary) **2004j:62113**
Victor, N. (*with* Kieser, M.) Configural frequency analysis and association analyses in contingency tables. (English summary)
Vingron, Martin *see* **von Heydebreck, Anja et al., (2004a:62009)**
Virtanen, Jorma I. *see* **Härkänen, Tommi et al.**
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Wang, Guang He *see* **Wan, Xin Rong et al.**
Wang, Hansheng *see* **Chow, Shein-Chung et al., 2004d:62065**
Wang, Jane-Ling *see* **Chiou, Jeng-Min et al., 2004k:62106**
Wang, John Wenyu *see* **Lee, Elisa T., 2004b:62003**
Wang, Mei-Cheng *see* **Chiang, Chin-Tsang, 2004m:62211**
Wang, Meng Jun *see* **Wan, Xin Rong et al.**
Wang, Ming-Dauh (*with* Geisser, Seymour) Optimal dichotomization for repeated screening tests. (English summary) **2004g:62023**
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Weale, Michael E. *see* **Wilson, Ian J. et al., 2004e:92016**
Wei, L. J. *see* **Park, Yuhyun** *and* **Tian, Lu**[2] **et al.**
Weiss, Robert E. *see* **Suchard, Marc A. et al.**
Weissfeld, Lisa A. *see* **Berhane, Kiros**
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West, R. Webster *see* **Al-Saidy, Obaid M. et al.**
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Williamson, John M.[2] *see* **Lin, Hung-Mo et al.**
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Wolfe, Douglas A. *see* **Horn, Paul S.**
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Wu, Hulin (*with* Liang, Hua) Backfitting random varying-coefficient models with time-dependent smoothing covariates. (English summary) **2004k:62126**
Wu, Jane *see* **Lakatos, Edward, (2004j:62011)**
Wu, Jing-Tao *see* **Klein, John P.**
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Errata:
"Nonparametric estimation of renewal processes from count data" Correction: "Nonparametric estimation of renewal processes from count data" [Canad. J. Statist. **31** (2003), no. 2, 191–223] by Y. Guédon and C. Cocozza-Thivent.
New trends in computational statistics with biomedical applications ★ New trends in computational statistics with biomedical applications.
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62P12 Applications to environmental and related topics

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Maiti, Tapabrata *see* **Lahiri, P., 2004g:62025**
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Perone Pacifico, Marco *see* **De Santis, Fulvio et al.**
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Poggi, Jean-Michel *see* **Chèze-Payaud, Nathalie et al., 2004e:62083**
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Stenseth, Nils Chr. *see* **Zhang, Wenyang et al., 2004i:62113**
Strindberg, S. *see* **Buckland, Stephen T. et al.**, (**2004m:62011**)
Taillie, Charles *see* **Patil, Ganapati P., 2004e:62175**
Tanemura, Masaharu *see* **Ogata, Yosihiko et al.**
Thomas, Len *see* **Buckland, Stephen T. et al.**, (**2004m:62011**)
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Wu, Changbao *see* **Chen, Jiahua et al.**
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62P15 Applications to psychology

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Heckman, James J. *see* **Hansen, Karsten T. et al.**
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Goldstein, Harvey *see* **Carpenter, James R. et al.**
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Hansen, Karsten T. *see* **Carneiro, Pedro et al., 2004e:91100**
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Rasbash, Jon *see* **Carpenter, James R. et al.**
Snijders, Tom A. B. *see* **van Duijn, Marijtje A. J. et al.**
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Verhelst, Norman D. *see* **Bechger, Timo M. et al., 2004a:62121**
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Zhang, Jinming *see* **Chang, Hua-Hua, 2004b:62027**
Zijlstra, Bonne J. H. *see* **van Duijn, Marijtje A. J. et al.**

62P20 Applications to economics [see also 91Bxx]

Aanes, Sondre *see* **Hirst, David et al.**
Aasness, Jørgen (*with* Biørn, Erik; Skjerpen, Terje) Distribution of preferences and measurement errors in a disaggregated expenditure system. (English summary)
de Abreu Pessôa, Samuel *see* **Ferreira, Pedro Cavalcanti et al.**
Abril, Juan Carlos *see* **Blaconá, María Teresa**
Aĭvazyan, S. A. (*with* Borisova, S. V.; Lakalin, E. A.; Makarov, Valeriĭ Leonidovich) Econometric modelling of the Russian economy. (English summary)
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(Bierens, Herman J.) *see* **Díaz-Emparanza, Ignacio**
Biørn, Erik *see* **Aasness, Jørgen et al.**
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Chen, Chao[2] *see* **Bickel, Peter J. et al., (2004d:62006)**
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Demétrio, Clarice Garcia Borges *see* **Giolo, Suely Ruiz et al.**
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Egan, D. *see* **Dalal, S. R. et al., (2004h:62006)**
Englin, Jeffrey *see* **Moeltner, Klaus**
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Franses, Philip Hans *see* **Kippers, Jeanine et al.**
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Gelfand, Alan E. *see* **Banerjee, Sudipto et al.**
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Henderson, Robin *see* **Giolo, Suely Ruiz et al.**
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Ho, Yu-Yun K. *see* **Dalal, S. R. et al., (2004h:62006)**
Huseby, Ragnar Bang *see* **Hirst, David et al.**
Issler, João Victor *see* **Ferreira, Pedro Cavalcanti et al.**
Jensen, Uwe[2] Which feeling is stronger: jealousy or laziness? (English summary) (*see* **2004k:62015**)
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Kalamatianou, Aglaia G. (*with* McClean, Sally) The perpetual student: modeling duration of undergraduate studies based on lifetime-type educational data. (English summary)
Kaymarm, F. *see* **Khoshnevisan, M. et al., 2004g:62188**
Kerscher, William J., III *see* **Booker, Jane M. et al., (2004h:62006)**
Khoshnevisan, M. (*with* Kaymarm, F.; Singh, Housila Prasad; Singh, Rajesh[1]; Smarandache, Florentin) Econometric analysis on efficiency of estimators. (English summary) **2004g:62188**
Kippers, Jeanine (*with* van Nierop, Erjen; Paap, Richard; Franses, Philip Hans) An empirical study of cash payments. (English summary)
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— *see also* **Bassett, Gilbert W., Jr. et al., 2004f:62196**
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Lakalin, E. A. *see* **Aĭvazyan, S. A. et al.**
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Makarov, Valeriĭ Leonidovich *see* **Aĭvazyan, S. A. et al.**
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Meyer, Mary A. *see* **Booker, Jane M. et al., (2004h:62006)**
Missong, Martin *see* **Kohn, Karsten, (2004k:62015)**
Moeltner, Klaus (*with* Englin, Jeffrey) Choice behavior under time-variant quality: state dependence versus "play-it-by-ear" in selecting ski resorts. (English summary)
Montes, Francisco *see* **Mateu, Jorge et al.**
Moors, J. J. A. *see* **Raats, V. M. et al., 2004k:62255**
Muliere, Pietro *see* **Chakravarty, Satya R.**
Naylor, Robin A. *see* **Arulampalam, Wiji et al.**
Newey, Whitney K. (*with* Powell, James L.) Instrumental variable estimation of nonparametric models. (English summary) **2004f:62197**
van Nierop, Erjen *see* **Kippers, Jeanine et al.**
Oberhofer, Walter *see* **Haupt, Harry et al.**
Ooms, Marius *see* **Koopman, Siem Jan**
Paap, Richard *see* **Kippers, Jeanine et al.**
Parsons, George R. *see* **von Haefen, Roger H. et al.**
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summary)
Phaneuf, Daniel J. *see* **von Haefen, Roger H. et al.**
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Plaza Delgado, M. *see* **Mateu, Jorge et al.**
Porter, Jack R. *see* **Hirano, Keisuke, 2004j:62219**
Portugal, Pedro *see* **Machado, José A. F., (2004d:62007)**
Powell, James L. *see* **Newey, Whitney K., 2004f:62197**
Pudney, Stephen *see* **Mealli, Fabrizia, (2004a:62008)**
Raats, V. M. (*with* van der Genugten, B. B.; Moors, J. J. A.) A general model for repeated audit controls using monotone subsampling. (English summary) **2004k:62255**
Rahim, M. A. *see* **Lam, K. K.**
Raybaudi, Marzia (*with* Sola, Martin; Spagnolo, Fabio) Red signals: current account deficits and sustainability. (English summary)
Reichsthaler, Thomas *see* **Haupt, Harry et al.**
Rice, John A. *see* **Bickel, Peter J. et al., (2004d:62006)**
Rosenstein, M. *see* **Dalal, S. R. et al., (2004h:62006)**
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Schuermann, Til *see* **Pesaran, M. Hashem et al.**
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Singpurwalla, Nozer D. Warranty: a surrogate of reliability. (English summary)
Sirmans, C. F. *see* **Banerjee, Sudipto et al.**
Skinner, Chris J. *see* **Berger, Yves G.**
Skjerpen, Terje *see* **Aasness, Jørgen et al.**
Smarandache, Florentin *see* **Khoshnevisan, M. et al., 2004g:62188**
Smith, Jeremy P. *see* **Arulampalam, Wiji et al.**
Smith, Murray D. On dependency in double-hurdle models. (English summary) **2004g:62189**
Smith, W. James *see* **Formby, John P. et al.**
Sola, Martin *see* **Raybaudi, Marzia et al.**
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Spagnolo, Fabio *see* **Raybaudi, Marzia et al.**
Storvik, Geir *see* **Hirst, David et al.**
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Tvete, Ingunn Fride *see* **Hirst, David et al.**
Varaiya, Pravin *see* **Bickel, Peter J. et al., (2004d:62006)**
Waagepetersen, Rasmus Plenge *see* **Tøgersen, Frede Aakmann**
Wachter, Kenneth W. *see* **Freedman, David A., (2004d:62008)**
Weiner, Scott M. *see* **Pesaran, M. Hashem et al.**
Welfe, Aleksander Long-run relationships in the transition economy of Poland: an application of SVEqCM. (English summary) (*see* **2004k:62015**)
Welfe, Władysław Growth determinants of Poland's economic potential. (English summary) (*see* **2004k:62015**)
Wu, Changbao *see* **Chen, Jiahua et al.**
Wu, He Cheng (*with* Zheng, Chui Yong) An exponential-distribution-based input-output model. (Chinese. English and Chinese summaries)
Xie, Min[1] *see* **Tang, X. Y. et al., 2004d:62373**
Yau, Kelvin K. W. *see* **Lee, Andy H.**
Zhang, Xuelin *see* **Belzil, Christian, (2004k:62018)**
Zheng, Buhong *see* **Formby, John P. et al.**
Zheng, Chui Yong *see* **Wu, He Cheng**
van Zwet, Erik *see* **Bickel, Peter J. et al., (2004d:62006)**

Items with secondary classifications in 62P20

Abe, Naohito The multi-sector business cycle model and aggregate shocks: an empirical analysis. (English summary)
Aït-Sahalia, Yacine (*with* Duarte, Jefferson) Nonparametric option pricing under shape restrictions. (English summary) **2004g:62086**
Anatolyev, Stanislav The form of the optimal nonlinear instrument for multiperiod conditional moment restrictions. (English summary) **2004h:62120**
Ayuda Bosque, Ma. Isabel *see* **Aznar Grasa, Antonio et al., 2004b:62007**
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Barnett, William A. (*with* Pasupathy, Meenakshi) Regularity of the generalized quadratic production model: a counterexample. (English summary) **2004d:62062**
Bender, Stefan *see* **Fahrmeir, Ludwig et al.**
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Boatwright, Peter (*with* Borle, Sharad; Kadane, Joseph B.) A model of the joint distribution of purchase quantity and timing. (English summary)
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Borle, Sharad *see* **Boatwright, Peter et al.**
Borovkova, Svetlana Detecting changes in term structure from financial time series. (English summary)
Boussu, Francois (*with* Denimal, Jean Jacques) Statistical modeling and data mining to identify consumer preferences. (English summary) (*see* **2004j:62012**)
Canova, Fabio Testing for convergence clubs in income per capita: a predictive density approach. (English summary) **2004m:91172**
— (*with* Ciccarelli, Matteo) Forecasting and turning point predictions in a Bayesian panel VAR model. (English summary)
Chen, Zehua Ranked set sampling: a methodology for observational economy. (English summary) **2004k:62031**
Ciccarelli, Matteo *see* **Canova, Fabio**
Clutter, Michael *see* **Hall, Daniel B.**
Cook, Richard J. (*with* Lawless, Jerald F.; Lee, Ker-Ai) Cumulative processes related to event histories. (English and Catalan summaries)
Da, Qing Li *see* **Zhang, Qin[2]**
Das, Mitali Identification and sequential estimation of panel data models with insufficient exclusion restrictions. (English summary) **2004b:62088**
Deltas, George (*with* Zacharias, Eleftherios) Sampling frequency and the comparison between matched-model and hedonic regression price indexes. (English summary)
Denimal, Jean Jacques *see* **Boussu, Francois, (2004j:62012)**
Dhaene, Jan *see* **Goovaerts, Marc J. et al.**
Diakoulakis, I. E. (*with* Koulouriotis, D. E.; Emiris, D. M.) A review of stock market prediction using computational methods. (English summary) **2004j:91126**
van Dijk, Dick (*with* Strikholm, Birgit; Teräsvirta, Timo) The effects of institutional and technological change and business cycle fluctuations on seasonal patterns in quarterly industrial production series. (English summary)
Dittmann, Ingolf Error correction models for fractionally cointegrated time series. (English summary)
Duarte, Jefferson *see* **Aït-Sahalia, Yacine, 2004g:62086**
Dufour, Jean-Marie (*with* Khalaf, Lynda) Monte Carlo test methods in econometrics. (*see* **2004j:62006**)
Egger, Peter *see* **Baltagi, Badi H. et al., 2004g:91099**
Embrechts, Paul (*with* Resnick, Sidney I.; Samorodnitsky, Gennady) Extreme value theory as a risk management tool. (English summary) **2004d:62190**
Emiris, D. M. *see* **Diakoulakis, I. E. et al., 2004j:91126**
Fahrmeir, Ludwig (*with* Lang, Stefan[2]; Wolff, Joachim; Bender, Stefan) Semiparametric Bayesian time-space analysis of unemployment duration. (English summary)
Fellman, Johan The redistributive effect of tax policies. (English summary) **2004b:60051**
Forchini, Giovanni (*with* Hillier, Grant) Conditional inference for possibly unidentified structural equations. (English summary) **2004g:62046**
Frangakis, Constantine E. *see* **Barnard, John et al.**
Freitas, Marta Afonso (*with* Borges, Wagner; Ho, Linda Lee) A statistical model for shelf life estimation using sensory evaluations scores. (English summary)
García Olaverri, Ma. Carmen *see* **Aznar Grasa, Antonio et al., 2004b:62007**
Gonçalves, Silvia (*with* White, Halbert) The bootstrap of the mean for dependent heterogeneous arrays. (English summary) **2004b:62143**
Goovaerts, Marc J. (*with* Kaas, Rob; Dhaene, Jan; Tang, Qi-he) A unified approach to generate risk measures. (English summary)
Gouveia, Pedro M. D. C. B. (*with* Rodrigues, Paulo M. M.) Threshold cointegration and the PPP hypothesis. (English summary)
Guerrero, Víctor M. (*with* Peña, Daniel) Combining multiple time series predictors: a useful inferential procedure. (English summary) **2004e:62154**
Guhr, Thomas (*with* Kälber, Bernd) A new method to estimate the noise in financial correlation matrices. (English summary) **2004h:91053**
Gutierrez, Genaro *see* **Paul, Anand, 2004i:91077**
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Han, Li Yan *see* **Zheng, Cheng Li, 2004b:62210**
(Hansen, Gerd) *see* **Contributions to modern econometrics, 2004k:62015**
Hansen, Peter Reinhard Structural changes in the cointegrated vector autoregressive model. (English summary) **2004d:62299**
Hayes, Kathy J. (*with* Hirschberg, Joe; Lye, Jenny) The use of multivariate generated regressors in the presence of heteroskedasticity. (English summary)
Hendry, David Forbes J. Denis Sargan and the origins of LSE econometric methodology. **2004e:01045**
Hill, Jennifer Lynn *see* **Barnard, John et al.**
Hillier, Grant *see* **Forchini, Giovanni, 2004g:62046**
Hirschberg, Joe *see* **Hayes, Kathy J. et al.**
Ho, Linda Lee *see* **Freitas, Marta Afonso et al.**
Holmes, D. J. *see* **Skinner, Chris J., (2004a:62008)**
Inoue, Atsushi[4] (*with* Kilian, Lutz) The continuity of the limit distribution in the parameter of interest is not essential for the validity of the bootstrap. (English summary) **2004g:62067**
Ireland, Peter N. A method for taking models to the data. (English summary)
Iwunor, Charles C. O. Duration of all segments of use of consumer products. (English summary)
Jach, Agnieszka (*with* Kokoszka, P. S.) Subsampling unit root tests for heavy-tailed observations. (English summary)
Jansen, Eilev S. *see* **Bårdsen, Gunnar et al.**
Jaschke, Stefan (*with* Klüppelberg, Claudia; Lindner, Alexander) Asymptotic behavior of tails and quantiles of quadratic forms of Gaussian vectors. (English summary) **2004k:62046**
Jensen, Mogens H. (*with* Johansen, Anders; Simonsen, Ingve) Inverse statistics in economics: the gain-loss asymmetry. (English summary)
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(Phillips, Peter C. B.) *see* **de Jong, Robert M., 2004m:62192**
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Teräsvirta, Timo *see* **van Dijk, Dick et al.**
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62P25 Applications to social sciences

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Richardson, Thomas S. *see* **Lauritzen, Steffen L.**, **2004b:62009**
Singh, Sarjinder *see* **Arnab, Raghunath**, **2004d:62079** *and* (**2004k:62018**)
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62P30 Applications in engineering and industry

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Dean, Angela M. *see* **Ankenman, Bruce E.**, (**2004h:62006**)
Dehning, Lars *see* **Bohnacker, Ulrich et al.**, (**2004d:62005**)
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Frankel, Gerald S. *see* **Ruan, Shiling et al.**
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Ollis, James *see* **Sparks, Ross**
Özekici, Süleyman *see* **Singpurwalla, Nozer D. et al.**, (**2004h:62006**)
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Qian, Cunhua *see* **Nakamura, Syouji et al.**
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Renz, Ingrid *see* **Bohnacker, Ulrich et al.**, (**2004d:62005**)
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Santner, Thomas J. *see* **Pan, Guohua et al.**, (**2004h:62006**)
Schanz, T. *see* **Stoimenova, Eugenia et al.**
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Sun, Don X. *see* **Cao, Jin et al.**, (**2004d:62006**)
Swift, Andrew W. *see* **Singpurwalla, Nozer D. et al.**, (**2004i:62010**)
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Tsui, Kwok-Leung *see* **Chen, Victoria C. P. et al.**, (**2004h:62006**)
Vellaisamy, P. (*with* Sankar, Shanmugam; Taniguchi, Masanobu) Estimation and design of sampling plans for monitoring dependent production processes. (English summary) **2004f:62198**
Verbaken, Tonny *see* **Jongbloed, Geurt**
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Watson, Ray *see* **Fang, Xiangzhong et al.**
Wolfe, Douglas A. *see* **Ruan, Shiling et al.**
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Woodall, William H. *see* **Stoumbos, Zachary G. et al.**, (**2004h:62006**)
Wu, Yan Hong *see* **Srivastava, Muni S.**, (**2004h:62006**)
Yan, Wang *see* **Fang, Xiangzhong et al.**
Yip, Paul S. F. *see* **Fang, Xiangzhong et al.**
Zhang, Weilong *see* **Ruan, Shiling et al.**

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65–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Aleksandrov, Lyudmil) *see* **Morton, K. W.**
Angermann, Lutz *see* **Knabner, Peter, 2004j:65002**
Bisseling, Rob H. ★ Parallel scientific computation.
Dubin, Daniel H. E. ★ Numerical and analytical methods for scientists and engineers using Mathematica. **2004b:65001**
(Farkhi, Leon) *see* **Morton, K. W.**
(Iliev, Oleg) *see* **Morton, K. W.**
Knabner, Peter (*with* Angermann, Lutz) ★ Numerical methods for elliptic and parabolic partial differential equations. **2004j:65002**
(Konstantinov, Mikhail M.) *see* **Morton, K. W.**
Kythe, Prem K. (*with* Wei, Dongming) ★ An introduction to linear and nonlinear finite element analysis. **2004h:65001**
Larsson, Stig (*with* Thomée, Vidar) ★ Partial differential equations with numerical methods. **2004f:65001**
(Margenov, Svetozar D.) *see* **Morton, K. W.**
Mayers, David F. *see* **Süli, Endre** *and* **Morton, K. W.**
Moler, Cleve B. ★ Numerical computing with MATLAB.
Morton, K. W. (*with* Mayers, David F.) ★ Числено решаване на частни диференциални уравнения. (Bulgarian) [Numerical solution of partial differential equations]
Quarteroni, Alfio (*with* Saleri, Fausto) ★ Scientific computing with MATLAB.
Saad, Youcef ★ Iterative methods for sparse linear systems. **2004h:65002**
Saleri, Fausto *see* **Quarteroni, Alfio**
Süli, Endre (*with* Mayers, David F.) ★ An introduction to numerical analysis.
Thomée, Vidar *see* **Larsson, Stig, 2004f:65001**
Wei, Dongming *see* **Kythe, Prem K., 2004h:65001**
White, Robert E. ★ Computational mathematics.
Zarowski, Christopher J. ★ An introduction to numerical analysis for electrical and computer engineers.

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Butcher, John C. ★ Numerical methods for ordinary differential equations. **2004e:65069**
Davis, Jon H. ★ Methods of applied mathematics with a MATLAB overview. **2004k:00002**
Gaul, Lothar (*with* Kögl, Martin; Wagner, Marcus Michael) ★ Boundary element methods for engineers and scientists. **2004d:65149**
(Khristov, Vladimir) *see* **Powell, M. J. D.**
Kögl, Martin *see* **Gaul, Lothar et al., 2004d:65149**
(Kolkovska, Natalia T.) *see* **Powell, M. J. D.**
(Konstantinov, Mikhail M.) *see* **Powell, M. J. D.**
(Moskova, Milena) *see* **Powell, M. J. D.**
Powell, M. J. D. ★ Теория и методи за апроксимация. (Bulgarian) [Approximation theory and methods]
Siddiqi, Abul Hasan ★ Applied functional analysis. **2004h:47098**
Wagner, Marcus Michael *see* **Gaul, Lothar et al., 2004d:65149**

65–02 Research exposition (monographs, survey articles)

Allgower, Eugene L. (*with* Georg, Kurt) ★ Introduction to numerical continuation methods. **2004c:65001**
(Anderson, Ned) *see* **Dahlquist, Germund, 2004a:65001**
Argyros, Ioannis K. ★ Computational methods for abstract polynomial equations. **2004h:65003**
Bagaev, B. M. (*with* Karepova, E. D.; Shaĭdurov, V. V.) ★ Сеточные методы решения задач с пограничным слоем. Часть 2. (Russian. Russian summary) [Grid methods for solving problems with a boundary layer. Part 2] **2004m:65001**
Bangerth, Wolfgang (*with* Rannacher, Rolf) ★ Adaptive finite element methods for differential equations. **2004b:65002**
Baxter, B. J. C. (*with* Iserles, A.) On the foundations of computational mathematics. **2004k:65001**
Bellen, Alfredo (*with* Zennaro, Marino) ★ Numerical methods for delay differential equations. **2004i:65001**
Björck, Åke *see* **Dahlquist, Germund, 2004a:65001**
Carvalho, Paulo Cézar Pinto *see* **de Figueiredo, Luiz Henrique, 2004e:65001**
Cockburn, Bernardo Discontinuous Galerkin methods. (English summary) **2004i:65002**
Dahlquist, Germund (*with* Björck, Åke) ★ Numerical methods. **2004a:65001**
Divo, E. A. (*with* Kassab, A. J.) ★ Boundary element method for heat conduction. **2004a:65002**
Doležel, Ivo *see* **Šolín, Pavel et al., 2004h:65004**
Duddeck, Fabian M. E. ★ Fourier BEM. **2004k:65002**
Ern, Alexandre (*with* Guermond, Jean Luc) ★ Éléments finis: théorie, applications, mise en œuvre. (French. French summary) [Finite elements: theory, applications, implementation] **2004a:65003**
de Figueiredo, Luiz Henrique (*with* Carvalho, Paulo Cézar Pinto) ★ Introdução à geometria computacional. (Portuguese) [Introduction to computational geometry] **2004e:65001**
Georg, Kurt *see* **Allgower, Eugene L., 2004c:65001**
Grahs, Thorsten ★ Nonlinear anisotropic diffusion filters for the numerical approximation of conservation laws. (German summary) **2004j:65003**
Guermond, Jean Luc *see* **Ern, Alexandre, 2004a:65003**
Hundsdorfer, Willem (*with* Verwer, J. G.) ★ Numerical solution of time-dependent advection-diffusion-reaction equations. **2004g:65001**
Iserles, A. *see* **Baxter, B. J. C., 2004k:65001**
Karepova, E. D. *see* **Bagaev, B. M. et al., 2004m:65001**
Kassab, A. J. *see* **Divo, E. A., 2004a:65002**
Kelley, C. T. ★ Solving nonlinear equations with Newton's method. **2004i:65003**
Keyes, David E. Terascale implicit methods for partial differential equations. **2004c:65002**
Khoromskiĭ, B. N. (*with* Wittum, Gabriel) ★ Numerical solution of elliptic differential equations by reduction to the interface. **2004m:65002**
Knupp, Patrick (*with* Salari, Kambiz) ★ Verification of computer codes in computational science and engineering. **2004e:65002**
Liseikin, Vladimir D. ★ A computational differential geometry approach to grid generation. **2004i:65004**
Rannacher, Rolf *see* **Bangerth, Wolfgang, 2004b:65002**
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Segeth, Karel *see* **Šolín, Pavel et al., 2004h:65004**
Shaĭdurov, V. V. *see* **Bagaev, B. M. et al., 2004m:65001**
Shapira, Yair ★ Matrix-based multigrid. **2004g:65002**
Šolín, Pavel (*with* Segeth, Karel; Doležel, Ivo) ★ Higher-order finite element methods. **2004h:65004**
Verwer, J. G. *see* **Hundsdorfer, Willem, 2004g:65001**
Wittum, Gabriel *see* **Khoromskiĭ, B. N., 2004m:65002**
Young, David M. ★ Iterative solution of large linear systems.
Yu, De Hao ★ Natural boundary integral method and its applications. **2004d:65001**
Zennaro, Marino *see* **Bellen, Alfredo, 2004i:65001**

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(Allison, Paul) *see* **Altman, Micah et al.**
Altman, Micah (*with* Gill, Jeff; McDonald, Michael P.) ★ Numerical issues in statistical computing for the social scientist.
Bonnans, Joseph Frédéric ★ Numerical methods for the optimal control of ordinary differential equations. **2004m:49004**
Broyden, C. G. (*with* Vespucci, M. T.) The CG methods—a brief review. (English summary) (*see* **2004h:65007**)
van Brummelen, E. H. ★ Numerical methods for steady viscous free-surface flows. **2004c:76106**
Buhmann, M. D. ★ Radial basis functions: theory and implementations. **2004f:41001**
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Cools, Ronald Advances in multidimensional integration. (English summary) **2004a:65022**
Gill, Jeff *see* **Altman, Micah et al.**
Handscomb, D. C. *see* **Mason, John C., 2004h:33001**
(King, Gary) *see* **Altman, Micah et al.**
Kolev, Nikolay I. ★ Multiphase flow dynamics. 1. (English summary) **2004j:76157**
(LeSage, James P.) *see* **Altman, Micah et al.**
(Lions, Jacques-Louis) *see* **Handbook: Numerical analysis, 2004j:65001**
Liu, Gui-Rong ★ Mesh free methods. **2004e:65141**
Mason, John C. (*with* Handscomb, D. C.) ★ Chebyshev polynomials. (English summary) **2004h:33001**
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Terzopoulos, Demetri Deformable models: classic, topology-adaptive and generalized formulations. (English summary)
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Wang, Ren Hong On computational geometry. (*see* **2004d:00013**)

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65–03 Historical (must also be assigned at least one classification number from Section 01)

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(Archimedes) *see* **Saito, Ken**
Blum, Lenore *see* **Cucker, Felipe, (2004g:65003)**
Ciarlet, Philippe G. Jacques-Louis Lions, 1928–2001. **2004f:01022**
Cucker, Felipe (*with* Blum, Lenore) The work of Steve Smale on the theory of computation: 1990–1999. (*see* **2004g:65003**)
Fedotov, A. I. Numerical-analytic methods for solving operator equations. (Russian) (*see* **2004e:00008**)
González Sánchez, Luis (*with* López, José María) Cubics and quartics: methods of Tartaglia and Ferrari, theorems of Sturm and Hua. (Spanish. English summary)

He, Ji Huan Ancient Chinese algorithm: the ying buzu shu (method of surplus and deficiency) vs Newton iteration method. (Chinese. English and Chinese summaries) **2004a:01003**
(Lions, Jacques-Louis) *see* **Ciarlet, Philippe G., 2004f:01022**
López, José María *see* **González Sánchez, Luis**
Saito, Ken Archimedes' method of quadrature. (Japanese)
(Smale, Stephen) *see* **Cucker, Felipe, (2004g:65003)**
Tournès, Dominique L'intégration graphique des équations différentielles ordinaires. (English and French summaries) [Graphical integration of ordinary differential equations] **2004k:01030**

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Lions, Jacques-Louis *see* **Ciarlet, Philippe G., 2004f:01022**

65–04 Explicit machine computation and programs (not the theory of computation or programming)

Gofen, Alexander The Taylor center for PCs: exploring, graphing and integrating ODEs with the ultimate accuracy. (English summary) (*see* **2004j:00012**)
Gomez, Claude Scilab: un enjeu important pour le calcul scientifique. [Scilab: an important tool in scientific computing]
Hairer, Ernst (*with* Hairer, Martin) GniCodes—Matlab programs for geometric numerical integration. (English summary) (*see* **2004d:65003**)
Hairer, Martin *see* **Hairer, Ernst, (2004d:65003)**
von Törne, Christian ★ MOTICE: adaptive, parallel numerical solution of hyperbolic conservation laws. **2004c:65003**

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Baglama, J. (*with* Calvetti, Daniela; Reichel, Lothar) Algorithm 827: irbleigs: a MATLAB program for computing a few eigenpairs of a large sparse Hermitian matrix. (English summary) **2004g:65043**
— (*with* Calvetti, Daniela; Reichel, Lothar) IRBL: an implicitly restarted block-Lanczos method for large-scale Hermitian eigenproblems. (English summary) **2004d:65046**
Brady, Victor (*with* Concus, Paul; Finn, Robert S.) Capillary rise in nesting cylinders. (English summary) **2004b:76028**
Calvetti, Daniela *see* **Baglama, J. et al., 2004d:65046** *and* **2004g:65043**
Concus, Paul *see* **Brady, Victor et al., 2004b:76028**
Dhooge, A. (*with* Govaerts, W.; Kuznetsov, Yuriĭ Aleksandrovich) MATCONT: a MATLAB package for numerical bifurcation analysis of ODEs. (English summary) **2004h:65135**
Eliasson, Peter EDGE, a Navier-Stokes solver for unstructured grids. (English summary) (*see* **2004e:65004**)
Finn, Robert S. *see* **Brady, Victor et al., 2004b:76028**
Gil, Amparo (*with* Segura, Javier; Temme, Nico M.) Algorithm 819: AIZ, BIZ: two Fortran 77 routines for the computation of complex Airy functions.
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Hopkins, Tim Remark on Algorithm 705: A Fortran-77 software package for solving the Sylvester matrix equation $AXB^{\top} + CXD^{\top} = E$. (English summary)
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Lee, Hyunjin[2] (*with* Schiesser, W. E.) ★ Ordinary and partial differential equation routines in C, C++, Fortran, Java®, Maple®, and MATLAB®. **2004j:34001**
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Muir, P. H. *see* **Wang, Rong[1] et al.**
Ollivier-Gooch, Carl A toolkit for numerical simulation of PDEs. I. Fundamentals of generic finite-volume simulation. (English summary) **2004b:65122**
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(Yamamoto, Tetsuro) *see* **Proceedings: Conference on Recent Advances in Computational Mathematics**
(Yang, Laurence Tianruo) *see* **Parallel and distributed scientific and engineering computing**
(Ying, Long An) *see* **Recent progress in computational and applied PDEs, 2004j:65009**
(Yosibash, Zohar) *see* ***p*-FEM2000: *p* and *hp* finite element methods—mathematics and engineering practice**
(Yuan, Jin Yun) *see* **Workshop: Numerical Linear Algebra, Numerical Methods for Partial Differential Equations and Optimization**
(Zlatev, Zahari) *see* **Numerical methods and applications, 2004j:65007**

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Advanced topics in computational partial differential equations ★ Advanced topics in computational partial differential equations. **2004k:65003**
Albuquerque, NM ★ New computational methods for wave propagation.
Alicante ★ Selected papers from the Conference on Computational and Mathematical Methods for Science and Engineering.
Amsterdam ★ Workshop on Innovative Time Integrators for PDEs.
Applied and computational mathematics ★ Applied and computational mathematics.
BIT 40th Anniversary Meeting ★ BIT 40th Anniversary Meeting.
Bonn ★ Meshfree methods for partial differential equations. **2004d:65005**
Borovets ★ Numerical methods and applications. **2004j:65007**
Boundary elements XXV ★ Boundary elements XXV. **2004k:65004**
Cluj-Napoca ★ Numerical analysis and approximation theory. **2004d:65007**
Computational science, mathematics and software ★ Computational science, mathematics and software. **2004f:65002**
Conference:
Computational and Mathematical Methods for Science and Engineering ★ Selected papers from the Conference on Computational and Mathematical Methods for Science and Engineering.
Conference: (*cont'd.*)
Computational Fluid Dynamics ★ ECCOMAS Computational Fluid Dynamics Conference. Part III.
— ★ ECCOMAS Computational Fluid Dynamics Conference. Part IV.
Curves and Surfaces ★ Curve and surface design: Saint-Malo 2002. **2004j:65004**
— ★ Curve and surface fitting: Saint-Malo 2002. **2004j:65005**
Domain Decomposition Methods ★ Domain decomposition methods in science and engineering. **2004e:65003**
Fast Algorithms in Mathematics, Computer Science and Engineering ★ Fast algorithms for structured matrices: theory and applications. **2004c:65004**
Multigrid Methods ★ Tenth Copper Mountain Conference on Multigrid Methods.
Numerical Algorithms ★ International Conference on Numerical Algorithms. Vol. I.
— ★ International Conference on Numerical Algorithms. Vol. II.
Parallel Processing for Scientific Computing ★ Tenth SIAM Conference on Parallel Processing for Scientific Computing. **2004d:65002**
Scientific Computing ★ Current trends in scientific computing. **2004h:65005**
Contemporary Mathematics ★ Fast algorithms for structured matrices: theory and applications. **2004c:65004**
— ★ Current trends in scientific computing. **2004h:65005**
Copper Mountain, CO ★ Tenth Copper Mountain Conference on Multigrid Methods.
Córdoba ★ Applied and computational mathematics.
Curitiba ★ 2nd International Workshop on Numerical Linear Algebra, Numerical Methods for Partial Differential Equations and Optimization.
Current trends in scientific computing ★ Current trends in scientific computing. **2004h:65005**
Curve and surface design ★ Curve and surface design: Saint-Malo 2002. **2004j:65004**
Curve and surface fitting ★ Curve and surface fitting: Saint-Malo 2002. **2004j:65005**
Dedicated to Professor Ronald E. Mickens on the occasion of his 60th birthday ★ Dedicated to Professor Ronald E. Mickens on the occasion of his 60th birthday.
— ★ Dedicated to Professor Ronald E. Mickens on the occasion of his 60th birthday.
Dedicated to Raytcho Lazarov ★ {Dedicated to Raytcho Lazarov}.
Dedicated to the 70th birthday of Ivo Marek ★ Dedicated to the 70th birthday of Ivo Marek.
Domain decomposition methods in science and engineering ★ Domain decomposition methods in science and engineering. **2004e:65003**
Duisburg ★ Finite volumes for complex applications II. **2004k:65005**
Durham ★ Frontiers in numerical analysis. **2004d:65003**
Durham, NC ★ 14th Robert J. Melosh Competition.
Fast algorithms for structured matrices: theory and applications ★ Fast algorithms for structured matrices: theory and applications. **2004c:65004**
Festschrift:
Lazarov, Raytcho D. ★ {Dedicated to Raytcho Lazarov}.
Marek, Ivo ★ Dedicated to the 70th birthday of Ivo Marek.
Mickens, Ronald E. ★ Dedicated to Professor Ronald E. Mickens on the occasion of his 60th birthday.
— ★ Dedicated to Professor Ronald E. Mickens on the occasion of his 60th birthday.
Osher, Stanley J. ★ Special issue in honor of the sixtieth birthday of Stanley Osher.
Rice, John Rischard ★ Computational science, mathematics and software. **2004f:65002**
Smale, Stephen ★ Foundations of computational mathematics. **2004g:65003**
Stancu, Dimitrie D. ★ Numerical analysis and approximation theory. **2004d:65007**
Finite volumes for complex applications ★ Finite volumes for complex applications III. **2004e:65004**
Finite volumes for complex applications II ★ Finite volumes for complex applications II. **2004k:65005**
Foundations of computational mathematics ★ Foundations of computational mathematics. **2004g:65003**
Frontiers in numerical analysis ★ Frontiers in numerical analysis. **2004d:65003**
Geometric modeling for scientific visualization ★ Geometric modeling for scientific visualization. **2004j:65006**
Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. XI. **2004d:65004**
Hong Kong ★ Foundations of computational mathematics. **2004g:65003**
Kastoria ★ Proceedings of the International Conference of Computational Methods in Sciences and Engineering 2003. **2004j:65008**
Lecture Notes in Computer Science ★ Numerical methods and applications. **2004j:65007**
Lund ★ BIT 40th Anniversary Meeting.
Lyon ★ Domain decomposition methods in science and engineering. **2004e:65003**
Marrakesh ★ International Conference on Numerical Algorithms. Vol. I.
— ★ International Conference on Numerical Algorithms. Vol. II.
Matsuyama ★ Proceedings of the International Conference on Recent Advances in Computational Mathematics (ICRACM 2001).
Meshfree methods for partial differential equations ★ Meshfree methods for partial differential equations. **2004d:65005**
Minneapolis, MN ★ {Information-Based Complexity Workshop}.
Modern methods in scientific computing and applications ★ Modern methods in scientific computing and applications. **2004d:65006**
Montréal, QC ★ Modern methods in scientific computing and applications. **2004d:65006**
New computational methods for wave propagation ★ New computational methods for wave propagation.
Numerical analysis and approximation theory ★ Numerical analysis and approximation theory. **2004d:65007**
Numerical methods and applications ★ Numerical methods and applications. **2004j:65007**
Numerical methods in physics, chemistry, and engineering ★ Numerical methods in physics, chemistry, and engineering.
***p*-FEM2000: *p* and *hp* finite element methods—mathematics and engineering practice** ★ *p*-FEM2000: *p* and *hp* finite element methods—mathematics and engineering practice.
Parallel and distributed scientific and engineering computing ★ Parallel and distributed scientific and engineering computing.
Perth ★ Proceedings of the International Conference on Boundary and Interior Layers—Computational and Asymptotic Methods (BAIL 2002).

Porquerolles ★ Finite volumes for complex applications III. **2004e:65004**
Port d'Albret ★ Canum 2000: Actes du 32e Congrès National d'Analyse Numérique. (French) [Canum 2000: Proceedings of the 32nd National Congress of Numerical Analysis] **2004h:65006**
Portsmouth, VA ★ Tenth SIAM Conference on Parallel Processing for Scientific Computing. **2004d:65002**
Proceedings:
Conference of Computational Methods in Sciences and Engineering ★ Proceedings of the International Conference of Computational Methods in Sciences and Engineering 2003. **2004j:65008**
Conference on Boundary and Interior Layers—Computational and Asymptotic Methods, International, BAIL 2002 ★ Proceedings of the International Conference on Boundary and Interior Layers—Computational and Asymptotic Methods (BAIL 2002).
Conference on Recent Advances in Computational Mathematics ★ Proceedings of the International Conference on Recent Advances in Computational Mathematics (ICRACM 2001).
Congress of Numerical Analysis ★ Canum 2000: Actes du 32e Congrès National d'Analyse Numérique. (French) [Canum 2000: Proceedings of the 32nd National Congress of Numerical Analysis] **2004h:65006**
Seminar on Numerical Mathematics ★ Proceedings of the 6th Japan-China Joint Seminar on Numerical Mathematics.
Recent progress in computational and applied PDEs ★ Recent progress in computational and applied PDEs. **2004j:65009**
Recent trends in numerical analysis ★ Recent trends in numerical analysis. **2004h:65007**
Robert J. Melosh Competition ★ 14th Robert J. Melosh Competition.
Saint-Malo ★ Curve and surface design: Saint-Malo 2002. **2004j:65004**
— ★ Curve and surface fitting: Saint-Malo 2002. **2004j:65005**
Salzburg ★ 3rd IMACS Seminar on Monte Carlo Methods—MCM 2001.
School:
Numerical Analysis ★ Frontiers in numerical analysis. **2004d:65003**
Seminar:
Monte Carlo Methods ★ 3rd IMACS Seminar on Monte Carlo Methods—MCM 2001.
Sheffield ★ Uncertainty in geometric computations. **2004m:65003**
South Hadley, MA ★ Fast algorithms for structured matrices: theory and applications. **2004c:65004**
Special Issue:
In honor of the sixtieth birthday of Stanley Osher ★ Special issue in honor of the sixtieth birthday of Stanley Osher.
Split ★ Boundary elements XXV. **2004k:65004**
St. Louis, MO ★ p-FEM2000: p and hp finite element methods—mathematics and engineering practice.
Swansea ★ ECCOMAS Computational Fluid Dynamics Conference. Part III.
— ★ ECCOMAS Computational Fluid Dynamics Conference. Part IV.
Symposium:
Computational & Applied PDEs ★ Recent progress in computational and applied PDEs. **2004j:65009**
Computational Science ★ Computational science, mathematics and software. **2004f:65002**
Topics in computational wave propagation ★ Topics in computational wave propagation. **2004h:65008**
Tsukuba ★ Proceedings of the 6th Japan-China Joint Seminar on Numerical Mathematics.
Uncertainty in geometric computations ★ Uncertainty in geometric computations. **2004m:65003**
West Lafayette, IN ★ Computational science, mathematics and software. **2004f:65002**
Workshop:
Information-Based Complexity ★ {Information-Based Complexity Workshop}.
Innovative Time Integrators for PDEs ★ Workshop on Innovative Time Integrators for PDEs.
Numerical Linear Algebra, Numerical Methods for Partial Differential Equations and Optimization ★ 2nd International Workshop on Numerical Linear Algebra, Numerical Methods for Partial Differential Equations and Optimization.
Xi'an ★ Current trends in scientific computing. **2004h:65005**
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(Bathe, Klaus-Jürgen) *see* **Computational fluid and solid mechanics, 2004i:74002**
(Biegler, Lorenz T.) *see* **Large-scale PDE-constrained optimization, 2004j:49002**
(van Bloemen Waanders, Bart G.) *see* **Large-scale PDE-constrained optimization, 2004j:49002**
(Cheng, Shiu Yuen) *see* **Recent advances in scientific computing and partial differential equations, 2004e:00016**
(Ciccotti, Giovanni) *see* **Bridging time scales: molecular simulations for the next decade, 2004c:82002**
(Dagnino, Catterina) *see* **Splines, radial basis functions and applications**
(Demichelis, Vittoria) *see* **Splines, radial basis functions and applications**
(Di Pillo, Gianni) *see* **High performance algorithms and software for nonlinear optimization, 2004j:90009**
(Dongarra, Jack J.) *see* **Computational science, 2004j:00012; 2004j:00013** *and* **2004j:00014**
(El Hajji, S.) *see* **Proceedings: Conference on Linear Algebra and Arithmetic**
(Fish, Jacob) *see* **Multiscale computational mechanics for materials and structures**
(Ghattas, Omar) *see* **Large-scale PDE-constrained optimization, 2004j:49002**
(Guo, Benqi) *see* **Challenges in computational mathematics**
(Hafez, Mohamed M.) *see* **Computational fluid dynamics for the 21st century, 2004d:76003**
(Halpern, Laurence) *see* **Absorbing boundaries and layers, domain decomposition methods, 2004k:76003**
(Hege, Hans-Christian) *see* **Visualization and mathematics III, 2004j:00028**
(Heinkenschloss, Matthias) *see* **Large-scale PDE-constrained optimization, 2004j:49002**
(Herzberger, Jürgen) *see* **Inclusion methods for nonlinear problems with applications in engineering, economics and physics, 2004c:65046**
(Hoekstra, Alfons G.) *see* **Computational science, 2004j:00012; 2004j:00013** *and* **2004j:00014**
Horstemeyer, Mark F. *see* **Liu, Wing Kam et al.**
(Hou, Thomas Y.) *see* **Hyperbolic problems: theory, numerics, applications, 2004j:00016**
(Jebelean, Tudor) *see* **Symbolic and numeric algorithms on scientific computing**
(Kearfott, R. Baker) *see* **Proceedings: Validated Computing Conference**
(Kluev, V. V.) *see* **Topics in applied and theoretical mathematics and computer science, 2004h:00019**
(Ladevèze, Pierre) *see* **Multiscale computational mechanics for materials and structures**
(Lin, Yan-ping) *see* **Scientific computing and applications, 2004h:00025**
Liu, Wing Kam (*with* Qian, Dong; Horstemeyer, Mark F.) Preface [Special issue on multiple scale methods for nanoscale mechanics and materials].
(Mareschal, M.) *see* **Bridging time scales: molecular simulations for the next decade, 2004c:82002**
(Mastorakis, Nikos E.) *see* **Problems in applied mathematics and computational intelligence, 2004h:00017** *and* **Topics in applied and theoretical mathematics and computer science, 2004h:00019**
(Minev, Peter D.) *see* **Scientific computing and applications, 2004h:00025**
(Monitjano, J. I.) *see* **Recent advances in computational and mathematical methods for science and engineering**
(Morgan, Kenneth) *see* **Conference: Computational Fluid Dynamics**
(Morinishi, Koji) *see* **Computational fluid dynamics for the 21st century, 2004d:76003**
(Murad, Márcio A.) *see* **Special Issue: Multi-scale science**
(Murli, Almerico) *see* **High performance algorithms and software for nonlinear optimization, 2004j:90009**
(Negru, Viorel) *see* **Symbolic and numeric algorithms on scientific computing**
(Ng, Esmond G.) *see* **Preconditioning**
(Nielaba, P.) *see* **Bridging time scales: molecular simulations for the next decade, 2004c:82002**
(Oh, Hae-Soo) *see* **Challenges in computational mathematics**
(Osher, Stanley J.) *see* **Recent advances in scientific computing and partial differential equations, 2004e:00016**
(Pereira, Felipe) *see* **Special Issue: Multi-scale science**
(Périaux, Jacques F.) *see* **Computational fluid dynamics for the 21st century, 2004d:76003**
(Polthier, Konrad) *see* **Visualization and mathematics III, 2004j:00028**
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Quarteroni, Alfio (*with* Sequeira, A.) Editorial [Third Conference on Applied Mathematics for Industrial Flow Problems (AMIF)].
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(Satofuka, Nobuyuki) *see* **Computational fluid dynamics for the 21st century, 2004d:76003**
Sequeira, A. *see* **Quarteroni, Alfio**
(Shu, Chi-Wang) *see* **Recent advances in scientific computing and partial differential equations, 2004e:00016**
(Sloot, Peter M. A.) *see* **Computational science, 2004j:00012; 2004j:00013** *and* **2004j:00014**
(Spitaleri, R. M.) *see* **Applied numerical computing: grid generation and solution methods for advanced simulations**
(Sugihara, Kokichi) *see* **Workshop: Computational Geometry and Applications**
(Tadmor, Eitan) *see* **Hyperbolic problems: theory, numerics, applications, 2004j:00016**
(Tan, C. J. Kenneth) *see* **Computational science, 2004j:00012; 2004j:00013** *and* **2004j:00014**
(Tang, Tao) *see* **Recent advances in scientific computing and partial differential equations, 2004e:00016**
(Tang, Wei-Pai) *see* **Preconditioning**
(Teo, Kok Lay) *see* **Proceedings: Symposium on Computational Mathematics and Applications**
(Tourrette, Loïc) *see* **Absorbing boundaries and layers, domain decomposition methods, 2004k:76003**
(Vajteršic, Marián) *see* **Algorithms and applications of parallel numerics**
(Van Dooren, Paul) *see* **Proceedings: Conference on Linear Algebra and Arithmetic**
(Vigo-Aguiar, Jesús) *see* **Recent advances in computational and mathematical methods for science and engineering**
(Wang, Ren Hong) *see* **Proceedings: Symposium on Computational Mathematics and Applications**
(Weatherill, N. P.) *see* **Conference: Computational Fluid Dynamics**
(Wong, Yau Shu) *see* **Scientific computing and applications, 2004h:00025**
(Zhang, Zhimin) *see* **Challenges in computational mathematics**
(Zinterhof, Peter) *see* **Algorithms and applications of parallel numerics**

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Absorbing boundaries and layers, domain decomposition methods ★ Absorbing boundaries and layers, domain decomposition methods. **2004k:76003**
Algorithms and applications of parallel numerics ★ Algorithms and applications of parallel numerics.
Alicante ★ Recent advances in computati..nal and mathematical methods for science and engineering.
Amsterdam ★ Computational science—ICCS 2002. Part I. **2004j:00012**
— ★ Computational science—ICCS 2002. Part II. **2004j:00013**
— ★ Computational science—ICCS 2002. Part III. **2004j:00014**
— ★ Selected papers from the International Workshop on Computational Geometry and Applications.
Applied numerical computing: grid generation and solution methods for advanced simulations ★ Applied numerical computing: grid generation and solution methods for advanced simulations.
Berlin ★ Visualization and mathematics III. **2004j:00028**
Bratislava ★ Algorithms and applications of parallel numerics.
Bridging time scales: molecular simulations for the next decade ★ Bridging time scales: molecular simulations for the next decade. **2004c:82002**
Cachan ★ Multiscale computational mechanics for materials and structures.
Cambridge, MA ★ Computational fluid and solid mechanics 2003. Vol. 1. **2004i:74002**
Challenges in computational mathematics ★ Challenges in computational mathematics.

Computational fluid and solid mechanics ★ Computational fluid and solid mechanics 2003. Vol. 1. **2004i:74002**
Computational fluid dynamics for the 21st century ★ Computational fluid dynamics for the 21st century. **2004d:76003**
Computational science ★ Computational science—ICCS 2002. Part I. **2004j:00012**
— ★ Computational science—ICCS 2002. Part II. **2004j:00013**
— ★ Computational science—ICCS 2002. Part III. **2004j:00014**
Conference:
Computational Fluid Dynamics ★ ECCOMAS Computational Fluid Dynamics Conference. Part I.
— ★ ECCOMAS Computational Fluid Dynamics Conference. Part II.
Computational Science ★ Selected papers from the International Workshop on Computational Geometry and Applications.
Preconditioning Techniques for Large Sparse Matrix Problems ★ Preconditioning 2001.
Contemporary Mathematics ★ Recent advances in scientific computing and partial differential equations. **2004e:00016**
Dalian ★ Proceedings of the International Symposium on Computational Mathematics and Applications.
Erice ★ High performance algorithms and software for nonlinear optimization. **2004j:90009**
Festschrift:
Osher, Stanley J. ★ Recent advances in scientific computing and partial differential equations. **2004e:00016**
Satofuka, Nobuyuki ★ Computational fluid dynamics for the 21st century. **2004d:76003**
High performance algorithms and software for nonlinear optimization ★ High performance algorithms and software for nonlinear optimization. **2004j:90009**
Hong Kong ★ Recent advances in scientific computing and partial differential equations. **2004e:00016**
Hyperbolic problems: theory, numerics, applications ★ Hyperbolic problems: theory, numerics, applications. **2004j:00016**
Inclusion methods for nonlinear problems with applications in engineering, economics and physics ★ Inclusion methods for nonlinear problems with applications in engineering, economics and physics. **2004c:65046**
Kananaskis, AB ★ Scientific computing and applications. **2004h:00025**
Kyoto ★ Computational fluid dynamics for the 21st century. **2004d:76003**
Large-scale PDE-constrained optimization ★ Large-scale PDE-constrained optimization. **2004j:49002**
Lecture Notes in Computer Science ★ Computational science—ICCS 2002. Part I. **2004j:00012**
— ★ Computational science—ICCS 2002. Part II. **2004j:00013**
— ★ Computational science—ICCS 2002. Part III. **2004j:00014**
Lecture Notes in Physics ★ Bridging time scales: molecular simulations for the next decade. **2004c:82002**
Meeting:
Multi-Scale Computational Modeling of Heterogeneous Systems ★ Special issue on multi-scale science.
Multiscale computational mechanics for materials and structures ★ Multiscale computational mechanics for materials and structures.
Munich ★ Inclusion methods for nonlinear problems with applications in engineering, economics and physics. **2004c:65046**
Nova Friburgo ★ Special issue on multi-scale science.
Pasadena, CA ★ Hyperbolic problems: theory, numerics, applications. **2004j:00016**
Pohang ★ Challenges in computational mathematics.
Preconditioning ★ Preconditioning 2001.
Problems in applied mathematics and computational intelligence ★ Problems in applied mathematics and computational intelligence. **2004h:00017**
Proceedings:
Conference on Linear Algebra and Arithmetic ★ Proceedings of the International Conference on Linear Algebra and Arithmetic.
Symposium on Computational Mathematics and Applications ★ Proceedings of the International Symposium on Computational Mathematics and Applications.
Validated Computing Conference ★ Proceedings of the Validated Computing 2002 Conference.
Rabat ★ Proceedings of the International Conference on Linear Algebra and Arithmetic.
Recent advances in computational and mathematical methods for science and engineering ★ Recent advances in computational and mathematical methods for science and engineering.
Recent advances in scientific computing and partial differential equations ★ Recent advances in scientific computing and partial differential equations. **2004e:00016**
Santa Fe, NM ★ Large-scale PDE-constrained optimization. **2004j:49002**
Scientific computing and applications ★ Scientific computing and applications. **2004h:00025**
Special Issue:
Multi-scale science ★ Special issue on multi-scale science.
Splines, radial basis functions and applications ★ Splines, radial basis functions and applications.
Swansea ★ ECCOMAS Computational Fluid Dynamics Conference. Part I.
— ★ ECCOMAS Computational Fluid Dynamics Conference. Part II.
Symbolic and numeric algorithms on scientific computing ★ Symbolic and numeric algorithms on scientific computing.
Tahoe City, CA ★ Preconditioning 2001.
Timişoara ★ Symbolic and numeric algorithms on scientific computing.
Topics in applied and theoretical mathematics and computer science ★ Topics in applied and theoretical mathematics and computer science. **2004h:00019**
Torino ★ Splines, radial basis functions and applications.
Toronto, ON ★ Proceedings of the Validated Computing 2002 Conference.
Visualization and mathematics III ★ Visualization and mathematics III. **2004j:00028**
Workshop:
Computational Geometry and Applications ★ Selected papers from the International Workshop on Computational Geometry and Applications.
Parallel Numerics ★ Algorithms and applications of parallel numerics.

65A05 Tables

Items with secondary classifications in 65A05

Craik, Alex D. D. The logarithmic tables of Edward Sang and his daughters. (English and French summaries) **2004b:01021**

65Bxx Acceleration of convergence

Sidi, Avram ★ Practical extrapolation methods. **2004e:65005**

65B05 Extrapolation to the limit, deferred corrections

Alexander, Roger Index-doubling in sequences by Aitken extrapolation. (English summary) **2004e:65006**
Aslam, Tariq D. A partial differential equation approach to multidimensional extrapolation. (English summary) **2004j:65010**
Brezinski, Claude (*with* Redivo Zaglia, M.) A Schur complement approach to a general extrapolation algorithm. (English summary) **2004d:65008**
Gacougnolle, Jacques *see* **Guilpin, Christian et al., 2004j:65011**
Guilpin, Christian (*with* Gacougnolle, Jacques; Simon, Yvan) The ε-algorithm allows to detect Dirac delta functions. (English summary) **2004j:65011**
Kirtman, B. *see* **Weniger, E. J., 2004e:65007**
Lynch, Peter Richardson extrapolation: the power of the 2-gon. (English summary)
Redivo Zaglia, M. *see* **Brezinski, Claude, 2004d:65008**
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Thukral, R. Introduction to the improved Levin-type algorithms for accelerating convergence of sequence. (English summary) **2004m:65004**
Weniger, E. J. (*with* Kirtman, B.) Extrapolation methods for improving the convergence of oligomer calculations to the infinite chain limit of quasi-one-dimensional stereoregular polymers. (English summary) **2004e:65007**

Items with secondary classifications in 65B05

Amat, Sergio (*with* Candela, Vicente F.) Nonpolynomial interpolation using modulatory filters. (English summary) **2004b:65012**
Brezinski, Claude An introduction to formal orthogonality and some of its applications. (English and Spanish summaries) **2004b:42054**
Candela, Vicente F. *see* **Amat, Sergio, 2004b:65012**
Garbey, M. (*with* Shyy, Wei) A least square extrapolation method for improving solution accuracy of PDE computations. (English summary) **2004c:65141**
Graça, Mário M. Acceleration of nonhyperbolic sequences of Mann. (English summary) **2004j:47118**
Natividad, Maria Caridad (*with* Stynes, Martin) Richardson extrapolation for a convection-diffusion problem using a Shishkin mesh. (English summary) **2004b:65101**
Prévost, Marc (*with* Vekemans, Denis) Approximation and prediction of the numerical solution of some Burgers problems. (English summary) **2004m:65154**
Shyy, Wei *see* **Garbey, M., 2004c:65141**
Stynes, Martin *see* **Natividad, Maria Caridad, 2004b:65101**
Sun, Hai-Wei (*with* Zhang, Jun[2]) A high-order finite difference discretization strategy based on extrapolation for convection diffusion equations. (English summary) **2004j:65164**
Szabó, Zsuzsanna About the asymptotic error expansion and Richardson extrapolation for linear finite elements. I. **2004m:65205**
Vekemans, Denis *see* **Prévost, Marc, 2004m:65154**
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65B10 Summation of series

Li, Xiao Mei *see* **Zhang, Li Lun et al., 2004b:65003**
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Stpiczyński, Przemysław Efficient data-parallel algorithms for computing trigonometric sums. (English summary) **2004e:65008**
Zhang, Li Lun (*with* Song, Jun Qiang; Li, Xiao Mei) Two new methods for the evaluation of Chebyshev series on multiple points. (Chinese. English summary) **2004b:65003**

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Chen, Falai *see* **Li, Shang Zhi et al., 2004b:00002**
(E, Weinan) *see* **Li, Shang Zhi et al., 2004b:00002**
Kirtman, B. *see* **Weniger, E. J., 2004e:65007**
Li, Shang Zhi (*with* Chen, Falai; Wu, Yao Hua[1]; Zhang, Yunhua) ★ Mathematics experiments. **2004b:00002**
Ooura, Takuya A generalization of the continuous Euler transformation and its application to numerical quadrature. (English summary) **2004m:65031**
Thukral, R. Introduction to the improved Levin-type algorithms for accelerating convergence of sequence. (English summary) **2004m:65004**
Weniger, E. J. (*with* Kirtman, B.) Extrapolation methods for improving the convergence of oligomer calculations to the infinite chain limit of quasi-one-dimensional stereoregular polymers. (English summary) **2004e:65007**
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65B15 Euler-Maclaurin formula

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Ustinov, A. V. On summation and interpolation formulas. (Russian) **2004k:41004**
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65B99 None of the above, but in this section

Bellalij, Mohammed Analysis of Henrici's transformation for singular problems. (English summary) **2004m:65005**

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65C99 None of the above, but in this section

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65Dxx Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx.}

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(Lyche, Tom) *see* **Curve and surface design, 2004j:65004**
(Mazure, Marie-Laurence) *see* **Curve and surface design, 2004j:65004**
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65D05 Interpolation

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Pottmann, Helmut *see* **Peternell, Martin, 2004c:65010**
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65D07 Splines

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Hong, Don *see* **Liu, Huan-Wen, 2004f:65011**
Hörner, Jörg *see* **Höllig, Klaus et al., (2004j:65005)**
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Nürnberger, Günther *see* **Kohlmüller, N. et al.**, (**2004j:65004**) *and* (**2004j:65004**)

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Averbuch, Amir Z. *see* **Zheludev, V. A. et al.**, (**2004j:65005**)

Bancsik, Zs. *see* **Juhász, Imre**, **2004k:41011**

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Gruzd, Marina *see* **Zheludev, V. A. et al.**, (**2004j:65005**)

Guan, Lü Tai Bivariate polynomial natural spline interpolation algorithms with local basis for scattered data. (English summary) **2004d:41014**

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Hegland, Markus *see* **Roberts, Stephen et al.**, **2004c:65008**

Hong, Don *see* **Dyer, Bradley W.**, **2004i:41006**

Huang, Da Ren *see* **Bi, Ning et al.**, **2004j:42031**

Ibáñez Pérez, María José *see* **Barrera Rosillo, Domingo et al.**, (**2004j:65005**)

Jha, V. N. *see* **Kumar, Arun[1]**, **2004b:41008**

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65D15 Algorithms for functional approximation

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65D17 Computer aided design (modeling of curves and surfaces) [see also 68U07]

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Estrada-Sarlabous, Jorge *see* **Hernández-Mederos, Victoria, 2004h:65017**
Falcón, Sergio *see* **Plaza, Ángel et al., 2004m:65020**
Fang, Kui (*with* Tan, Jian Rong) C^2-continuous nearly arc-length parameterized curves. (Chinese. English summary) **2004m:65018**
Farin, Gerald (*with* Hansford, Dianne) A permanence principle for shape control. (English summary) (*see* **2004d:00013**)
Farouki, Rida T. (*with* Goodman, Tim N. T.; Sauer, Thomas) Construction of orthogonal bases for polynomials in Bernstein form on triangular and simplex domains. (English summary) **2004f:65016**
— (*with* Han, Chang Yong; Manni, Carla; Sestini, Alessandra) Characterization and construction of helical polynomial space curves. (English summary) **2004i:65013**
Feng, Ren Zhong (*with* Wang, Ren Hong) G^2 continuous conditions between cubic B-spline curves. (Chinese. English and Chinese summaries)
— (*with* Wang, Ren Hong; Luo, Zhong Xuan) The relationship between weights and control vertices of two rational NURBS curves representing the same curve parametrically and geometrically. (English summary) **2004i:65014**
Feng, Yu-yu *see* **Chen, Xiao-qun et al., 2004j:65022**
Gânscă, Ioan (*with* Ţâmbulea, Leon) Curves of Bézier type with shape parameters. (English summary) (*see* **2004d:65007**)
— (*with* Drăgan, Delia; Trîmbiţaş, Radu T.) On generation of families of surfaces. (English summary) **2004f:65017**
Ge, Jin Hui (*with* Zhao, Jiang[2]; He, Jian Xing) Surface reconstruction and optimization based on scatted data. (Chinese. English and Chinese summaries)
Ge, Ren Dong *see* **Zhao, Yan**
George, Paul-Louis (*with* Borouchaki, Houman) Maillage simplicial d'un polyèdre arbitraire. (English and French summaries) [Simplicial mesh of an arbitrary polyhedron]
Gérot, Cédric (*with* Attali, Dominique; Montanvert, Annick) Surface interpolation by means of convex combinations. (English summary) (*see* **2004j:65004**)
Gibaru, Olivier Triangular SBR-surfaces with base points. (English summary) (*see* **2004j:65004**)
Giesen, Joachim *see* **Dey, Tamal K., 2004m:65016**
Goldman, Ronald N. Multisided arrays of control points for multisided Bézier patches. (English summary)
González-Vega, Laureano (*with* Necula, Ioana; Sevilla, David) A symbolic/numeric toolbox for computer aided geometric design. (English summary)
Goodman, Tim N. T. *see* **Farouki, Rida T. et al., 2004f:65016**

Gray, Jevan T. *see* **Linsen, Lars et al.**, (2004j:65006)
Gruzd, Marina *see* **Zheludev, V. A. et al.**, (2004j:65005)
Guibault, François *see* **Khachan, Mohammed et al.**
Guo, Qing Wei (*with* Zhu, Gong Qin) A method for multidegree reduction approximation of Bézier curves. (Chinese. English and Chinese summaries)
— (*with* Zhu, Gong Qin) A method for approximate merging of two adjacent Bézier curves. (Chinese. English and Chinese summaries) **2004k:65024**
Guskov, Igor *see* **Khodakovskiĭ, A. M.**, (2004j:65006)
Hagen, Hans *see* **Bertram, Martin et al.**
Hahmann, Stefanie *see* **Bonneau, Georges-Pierre**, (2004j:65006)
Hamann, Bernd *see* **Linsen, Lars et al.**, (2004j:65006) *and* **Bertram, Martin et al.**
Han, Bin[2] Classification and construction of bivariate subdivision schemes. (English summary) (*see* **2004j:65005**)
Han, Chang Yong *see* **Farouki, Rida T. et al.**, 2004i:65013
Hansford, Dianne *see* **Farin, Gerald**, (2004d:00013)
Hassan, M. F. (*with* Dodgson, N. A.) Ternary and three-point univariate subdivision schemes. (English summary) (*see* **2004j:65005**)
Hatvany, Csaba Stancu curves in CAGD. (English summary) **2004k:65025**
He, Jian Xing *see* **Ge, Jin Hui et al.**
He, Ling Na (*with* Wang, Guo Zhao) Subdivision for C-curves of degree five. (Chinese. English and Chinese summaries)
Hed, Sigalit *see* **Dyn, Nira et al.**, (2004d:00013)
Hernández-Mederos, Victoria (*with* Estrada-Sarlabous, Jorge) Sampling points on regular parametric curves with control of their distribution. (English summary) **2004h:65017**
Hoffmann, Miklós (*with* Juhász, Imre) Geometric aspects of knot modification of B-spline surfaces. (English summary) **2004g:65014**
Holt, Robert J. *see* **Bajaj, Chanderjit L. et al.**, 2004j:65021
Hong, An Xiang *see* **Dong, Guang Chang et al.**
Hu, Qian Qian *see* **Wang, Guo Jin**[1]
Huang, Jian (*with* Crawfis, Roger) Adaptively represented complete distance fields of polygonal models. (English summary) (*see* **2004j:65006**)
Hwang, Wei-Chung (*with* Chuang, Jung-Hong) Boundary control of subdivision surfaces using an open uniform quadratic subdivision scheme. (English summary) **2004j:65024**
Ivrissimtzis, Ioannis (*with* Shrivastava, Kanishka; Seidel, Hans-Peter) Subdivision rules for general meshes. (English summary) (*see* **2004j:65005**)
— (*with* Rössl, Christian; Seidel, Hans-Peter) Tree-based data structures for triangle mesh connectivity encoding. (*see* **2004j:65006**)
— (*with* Dodgson, N. A.; Sabin, Malcolm) A generative classification of mesh refinement rules with lattice transformations. (English summary) **2004k:65026**
— *see also* **Dodgson, N. A. et al.**, (2004j:65005)
Janardan, Ravi *see* **Schwerdt, Jörg et al.**, 2004h:65020
Jiang, Qingtang T. (*with* Oswald, Peter) Triangular $\sqrt{3}$-subdivision schemes: the regular case. (English summary) **2004f:65018**
— *see also* **Chui, Charles K.**, 2004h:65015
Johnson, Eric R. *see* **Schwerdt, Jörg et al.**, 2004h:65020
Joy, Kenneth I. *see* **Duchaineau, Mark A.**, (2004j:65006); **Linsen, Lars et al.**, (2004j:65006) *and* **Bertram, Martin et al.**
Juhász, Imre *see* **Hoffmann, Miklós**, 2004g:65014
Jüttler, Bert (*with* Schicho, Josef; Shalaby, Mohamed Fathy) Spline implicitization of planar curves. (English summary) (*see* **2004j:65004**)
Kaklis, P. D. *see* **Koras, G. D.**, 2004m:65019
Karčiauskas, Kęstutis (*with* Peters, Jörg; Reif, Ulrich) Shape characterization of subdivision surfaces—case studies. (English summary)
Kato, Kiyotaka (*with* Mikami, Hiroshi; Oyama, Hiromine; Nishimura, Keisuke; Kawamo, Keishi) Surface generalization by scattered control points. (Japanese. English and Japanese summaries) **2004a:65016**
Kawamo, Keishi *see* **Kato, Kiyotaka et al.**, 2004a:65016
Kearney, Joseph *see* **Wang, Hongling et al.**, (2004j:65004) *and* (2004j:65004)
Khachan, Mohammed (*with* Guibault, François; Deddi, Hafsa) Characterization of trimmed NURBS surface boundaries using topological criteria. (English summary)
Khodakovskiĭ, A. M. (*with* Guskov, Igor) Compression of normal meshes. (English summary) (*see* **2004j:65006**)
Kim, Yootai (*with* Machiraju, Raghu; Thompson, David S.) Modeling rough surfaces. (*see* **2004j:65006**)
Konkle, Shirley E. *see* **Bertram, Martin et al.**
Koras, G. D. (*with* Kaklis, P. D.) On the local shape effect of a moving control point. (English summary) **2004m:65019**
Kouibia, A. (*with* Pasadas, M.) Approximation of explicit surfaces by fairness bicubic variational splines. (English summary) (*see* **2004h:00021**)
— (*with* Pasadas, M.; Rodríguez, M. L.) Construction of ODE curves. (English summary)
Lee, Namyong *see* **Sunwoo, Hasik**, 2004k:65028
Lei, Na *see* **Zhang, Shugong et al.**, 2004j:65027
Lemire, Daniel A family of 4-point dyadic multistep subdivison schemes. (English summary) (*see* **2004j:65005**)
Leopoldseder, Stefan *see* **Pottmann, Helmut**, 2004h:65019
Levin, David Mesh-independent surface interpolation. (English summary) (*see* **2004j:65006**)
— *see also* **Dyn, Nira et al.**, (2004d:00013) *and* (2004j:65005)
Li, Chong-Jun (*with* Wang, Ren Hong) The multivariate quartic NURBS surfaces. (English summary)
— *see also* **Wang, Ren Hong**, 2004k:65029
Li, Li[7] (*with* Pan, Zhi Geng) A class of montonicity-preserving subdivision schemes. (Chinese. English and Chinese summaries)
Li, Yi *see* **Wang, Ruomei et al.**
Li, Yurong *see* **Zhang, Shugong et al.**, 2004j:65027
Liang, Xue Zhang *see* **Che, Xiangjiu**, 2004c:65009
Ling, Hai *see* **Wang, Qing**[5] **et al.**
Linsen, Lars (*with* Gray, Jevan T.; Pascucci, Valerio; Duchaineau, Mark A.; Hamann, Bernd; Joy, Kenneth I.) Hierarchical large-scale volume representation with $\sqrt{2}$ subdivsion and trivariate B-spline wavelets. (English summary) (*see* **2004j:65006**)
Liu, Chaoyang Cubic Bézier interpolation with continuous curvature and convexity-preserving properties. (Chinese. English and Chinese summaries)
Liu, Jian[5] *see* **Cao, Li Xin et al.**
Liu, Xue Yan (*with* Zhang, Gui Cang) GC^1 continuity conditions between adjacent rectangular and triangular Bernstein-Bézier patches. (Chinese. English and Chinese summaries)
Loop, Charles Smooth ternary subdivision of triangle meshes. (English summary) (*see* **2004j:65005**)
Lou, Wen-ping *see* **Chen, Xiao-qun et al.**, 2004j:65022
Lu, Zhang Ping (*with* Pang, Ming Yong) Operator representation of Bézier curves. (Chinese. English and Chinese summaries)
Luo, Wei Lan (*with* Yang, Xun Nian; Zheng, Jian Min[1]) B-spline curve fairing with constraints. (Chinese. English and Chinese summaries)
Luo, Xiao-nan *see* **Wang, Ruomei et al.**
Luo, Zhong Xuan *see* **Feng, Ren Zhong et al.**, 2004i:65014
Machiraju, Raghu *see* **Kim, Yootai et al.**, (2004j:65006)
Manni, Carla *see* **Farouki, Rida T. et al.**, 2004i:65013
Matei, Basarab *see* **Cohen, Albert et al.**, 2004h:65016
Meek, D. S. *see* **Walton, D. J. et al.**, 2004f:65020
Meng, Xiang Guo (*with* Wang, Ren Hong) Interval Bézier surfaces approximation of rational surfaces. (Chinese. English summary) **2004k:65027**
Meng, Ya Qin (*with* Ye, Zheng Lin; Wang, Xiao Ping[3]; Zheng, Hong Chan) Uniform rational T-spline parametric curve in space. (Chinese. English and Chinese summaries)
Mikami, Hiroshi *see* **Kato, Kiyotaka et al.**, 2004a:65016
Min, Chun Yan (*with* Wang, Guo Zhao) C-B-spline basis is a B-basis. (Chinese. English and Chinese summaries)
Montanvert, Annick *see* **Gérot, Cédric et al.**, (2004j:65004)
Morigi, S. *see* **Casciola, Giulio**, (2004h:65007)
Mourrain, Bernard *see* **Elkadi, Mohamed**, 2004k:65023
Müller, Heinrich Augustinus (*with* Rips, Markus) Another metascheme of subdivision surfaces. (English summary) (*see* **2004j:00028**)
Necula, Ioana *see* **González-Vega, Laureano et al.**
Netravali, Arun N. *see* **Bajaj, Chanderjit L. et al.**, 2004j:65021
Nishimura, Keisuke *see* **Kato, Kiyotaka et al.**, 2004a:65016
Ojha, Aparajita *see* **Dikshit, H. P.**
Oruç, Halil (*with* Phillips, George M.) q-Bernstein polynomials and Bézier curves. (English summary) **2004b:65019**
Oswald, Peter Smoothness of a nonlinear subdivision scheme. (English summary) (*see* **2004j:65005**)
— *see also* **Jiang, Qingtang T.**, 2004f:65018
Oyama, Hiromine *see* **Kato, Kiyotaka et al.**, 2004a:65016
Pablo Suárez Rivero, Jose *see* **Plaza, Ángel et al.**, 2004m:65020
Padrón, Miguel A. *see* **Plaza, Ángel et al.**, 2004m:65020
Paluszny, Marco *see* **Prautzsch, Hartmut et al.**, 2004e:65017
Pan, Ri Jing The transformation matrices of B-spline bases and their applications. (Chinese. English and Chinese summaries) **2004h:65018**
Pan, Zhi Geng *see* **Li, Li**[7]
Pang, Ming Yong *see* **Lu, Zhang Ping**
Pasadas, M. *see* **Kouibia, A. et al.**, (2004h:00021)
Pascucci, Valerio *see* **Linsen, Lars et al.**, (2004j:65006)
Peng, Guo Hua *see* **Shi, Xiong Hui**, 2004h:65021
Peternell, Martin (*with* Pottmann, Helmut) Approximation in the space of planes: applications to geometric modeling and reverse engineering. (English and Spanish summaries) **2004c:65010**
Peters, Jörg *see* **Karčiauskas, Kęstutis et al.**
Phillips, George M. *see* **Oruç, Halil**, 2004b:65019
Piper, Bruce *see* **Dietz, Donna A.**, 2004k:65022
Plaza, Ángel (*with* Pablo Suárez Rivero, Jose; Padrón, Miguel A.; Falcón, Sergio; Amieiro, Daniel) Mesh quality improvement and other properties in the four-triangles longest-edge partition. (English summary) **2004m:65020**
du Plessis, L. J. (*with* Snyman, J. A.) Trajectory-planning through interpolation by overlapping cubic arcs and cubic splines. (English summary) **2004f:65019**
Pottmann, Helmut (*with* Leopoldseder, Stefan) A concept for parametric surface fitting which avoids the parametrization problem. (English summary) **2004h:65019**
— *see also* **Peternell, Martin**, 2004c:65010
Prautzsch, Hartmut (*with* Boehm, Wolfgang; Paluszny, Marco) ★ Bézier and B-spline techniques. **2004e:65017**
Qin, Kaihuai *see* **Wang, Huawei**, 2004g:65016
Reif, Ulrich *see* **Karčiauskas, Kęstutis et al.**
Rips, Markus *see* **Müller, Heinrich Augustinus**, (2004j:00028)
Rittenschober, Katharina Using line congruences for parameterizing cubic ruled surfaces. (English summary) (*see* **2004k:00020**)
Rodríguez, M. L. *see* **Kouibia, A. et al.**
Romani, Lucia (*with* Sabin, Malcolm) The conversion matrix between uniform B-spline and Bézier representations. (English summary)
— *see also* **Casciola, Giulio**, (2004j:65004)
Rössl, Christian *see* **Ivrissimtzis, Ioannis et al.**, (2004j:65006)
Rumpf, Martin *see* **Clarenz, Ulrich et al.**, (2004j:00028)
Sabin, Malcolm (*with* Barthe, Loïc) Artifacts in recursive subdivision surfaces. (English summary) (*see* **2004j:65005**)
— *see also* **Ivrissimtzis, Ioannis et al.**, 2004k:65026; **Dodgson, N. A. et al.**, (2004j:65005) *and* **Romani, Lucia**
Sablonnière, Paul Some properties of C^1 surfaces defined by tensor products of Merrien subdivision schemes. (English summary) (*see* **2004j:65005**)
Sampoli, Maria Lucia *see* **Costantini, Paolo**, 2004j:65023 *and* (2004j:65004)
Sauer, Thomas *see* **Farouki, Rida T. et al.**, 2004f:65016
Schaefer, Scott (*with* Warren, Joe) A factored interpolatory subdivision scheme for quadrilateral surfaces. (English summary) (*see* **2004j:65005**)
Schicho, Josef Simplification of surface parametrizations—a lattice polygon approach. (English summary) **2004i:65015**

— *see also* **Jüttler, Bert et al.**, (**2004j:65004**)
Schwerdt, Jörg (*with* Smid, Michiel; Janardan, Ravi; Johnson, Eric R.) Protecting critical facets in layered manufacturing: implementation and experimental results. (English summary) **2004h:65020**
Sederberg, Thomas W. *see* **Zheng, Jian Min[1]**, **2004h:65023**
Seidel, Hans-Peter *see* **Ivrissimtzis, Ioannis et al.**, (**2004j:65005**) *and* (**2004j:65006**)
Sestini, Alessandra *see* **Farouki, Rida T. et al.**, **2004i:65013**
Sevilla, David *see* **González-Vega, Laureano et al.**
Shalaby, Mohamed Fathy *see* **Jüttler, Bert et al.**, (**2004j:65004**)
Shan, Kai Jia (*with* Wang, Guo Zhao) Elevation of lower order C-Bézier curves. (Chinese. English and Chinese summaries) **2004b:65020**
Shapiro, Vadim *see* **Biswas, Arpan et al.**
Sheffer, Alla Non-optimal parameterizations and user control. (English summary) (*see* **2004j:65004**)
Shen, Hui-cun (*with* Zhou, Lai-shui; Zhang, Li-yan) Parameterization of triangular meshes. (English and Chinese summaries)
Shi, Xi Quan[2] *see* **Yu, Pi Qiang**
Shi, Xiong Hui (*with* Peng, Guo Hua) Construction of blending surfaces with G^3 continuity. (Chinese. English and Chinese summaries) **2004h:65021**
— (*with* Peng, Guo Hua) A blending surface construction with G^3-continuity. (Chinese. English and Chinese summaries)
Shrivastava, Kanishka *see* **Ivrissimtzis, Ioannis et al.**, (**2004j:65005**)
Siddiqi, Shahid S. (*with* Zia Afzal, M.) Reconstruction of 3D-objects using cross-sectional data. (English summary)
Simoens, Jo *see* **Dyn, Nira et al.**, (**2004j:65005**)
Sloan, Kenneth R. *see* **Cameron, Marietta E. et al.**, (**2004j:65006**)
Smelyakov, S. V. Construction of shortest line of restricted curvature in a non-singly-connected polygonal area. (English summary) **2004g:65015**
Smid, Michiel *see* **Schwerdt, Jörg et al.**, **2004h:65020**
Snyman, J. A. *see* **du Plessis, L. J.**, **2004f:65019**
Stanley, Sonya *see* **Cusimano, Catherine**, **2004f:65015**
Stylianou, Georgios A feature based method for rigid registration of anatomical surfaces. (English summary) (*see* **2004j:65006**)
Sun, Jing Nan (*with* Wang, Ren Hong) Solutions to problems in algorithms for degree elevation of B-spline curves. (Chinese. English and Chinese summaries)
Sun, Ke-hao Improved Delaunay triangulation for trimmed NURBS surface. (English and Chinese summaries)
Sun, Ying[2] *see* **Cameron, Marietta E. et al.**, (**2004j:65006**)
Sunwoo, Hasik (*with* Lee, Namyong) A unified matrix representation for degree reduction of Bézier curves. (English summary) **2004k:65028**
Szafnicki, Bolesław A unified approach for degree reduction of polynomials in the Bernstein basis. I. Real polynomials. (English summary) **2004b:65021**
Szilvási-Nagy, Márta Filling triangular holes by convex combination of surfaces. (English summary)
Ţâmbulea, Leon *see* **Gânscă, Ioan**, (**2004d:65007**)
Tan, Jian Rong *see* **Fang, Kui**, **2004m:65018**
Tang, Yue Hong The triangular rational Bézier representation for the cylindrical helix. (Chinese. English summary) **2004d:65023**
Thompson, David S. *see* **Kim, Yootai et al.**, (**2004j:65006**)
Tishkin, V. F. *see* **Bogomolov, K. L.**, **2004g:65013**
Trîmbiţaş, Radu T. *see* **Gânscă, Ioan et al.**, **2004f:65017**
Tsukanov, Igor *see* **Biswas, Arpan et al.**
Vanraes, Evelyne *see* **Windmolders, Joris et al.**, **2004b:65022**
Wallner, Johannes Gliding spline motions and applications. (English summary) **2004j:65025**
Walton, D. J. (*with* Meek, D. S.; Ali, J. M.) Planar G^2 transition curves composed of cubic Bézier spiral segments. (English summary) **2004f:65020**
Wang, Cheng Wei[3] Closed C-Bézier curves and B-type spline curves with given tangent polygon. (Chinese. English summary) **2004e:65018**
— C^2 and C^3 continuous closed generalized ball curve with given tangent polygon. (Chinese. English summary) **2004d:65024**
Wang, Guo Jin[1] (*with* Hu, Qian Qian) Approximating a kind of rational Bézier curves and their integrals and derivatives by using polynomial curves. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Jing Qiao**, **2004b:65023** *and* **Zhang, Ren Jiang**
Wang, Guo Zhao *see* **Shan, Kai Jia**, **2004b:65020**; **Yang, Qinmin**, **2004k:65030**; **He, Ling Na**; **Min, Chun Yan** *and* **Wei, Yong Wei**
Wang, Hongling (*with* Kearney, Joseph; Atkinson, Kendall) Arc-length parameterized spline curves for real-time simulation. (English summary) (*see* **2004j:65004**)
— (*with* Kearney, Joseph; Atkinson, Kendall) Robust and efficient computation of the closest point on a spline curve. (English summary) (*see* **2004j:65004**)
Wang, Huawei (*with* Qin, Kaihuai) Precise evaluation of uniform Doo-Sabin surfaces. (English summary) **2004g:65016**
Wang, Jia Ye *see* **Zhang, Cai Ming et al.**, **2004i:65016**
Wang, Kanchang *see* **Wang, Yulin et al.**
Wang, Qing[5] (*with* Cheng, Yan Qi; Ling, Hai; Bao, Hu Jun) Adaptive sampling and triangulation of implicit surfaces in realtime. (Chinese. English and Chinese summaries)
Wang, Ren Hong (*with* Li, Chong-Jun) A kind of multivariate NURBS surfaces. (English summary) **2004k:65029**
— *see also* **Feng, Ren Zhong et al.**, **2004i:65014**; **Meng, Xiang Guo**, **2004k:65027**; **Sun, Jing Nan** *and* **Li, Chong-Jun**
Wang, Ruomei (*with* Li, Yi; You, Fang; Luo, Xiao-nan) Rational recurrence curves and recurrence surfaces in multivariate B-form on some regions. (English summary)
Wang, Shuchun *see* **Wang, Yulin et al.**, **2004h:65022**
Wang, Wen Ping[1] *see* **Chen, Falai**, **2004d:65022**
Wang, Xiao Ming[2] *see* **Cao, Li Xin et al.**
Wang, Xiao Ping[3] (*with* Zhou, Ru Rong; Yu, Zhan-Yue; Ye, Zheng Lin) Interpolation and blending on parametric surfaces. (English and Chinese summaries)
— *see also* **Meng, Ya Qin et al.**
Wang, Yulin (*with* Wang, Shuchun; Zhang, Luzou; Zhao, Bingyan) Shape control of Bézier surfaces with iso-parametric monotone curvature constraints. (English summary) **2004h:65022**
— (*with* Zhao, Bingyan; Zhang, Luzou; Xu, Jiachuan; Wang, Kanchang; Wang, Shuchun) Designing fair curves using monotone curvature pieces. (English summary)
Warren, Joe *see* **Schaefer, Scott**, (**2004j:65005**)
Wei, Yong Wei (*with* Wang, Guo Zhao) Subdivision of interval Bézier curves. (Chinese. English and Chinese summaries)
Wei, Yue Chun The singular inflection point distribution of plane Bézier curves of degree three in barycentric coordinate systems. (Chinese. English and Chinese summaries)
Windmolders, Joris (*with* Vanraes, Evelyne; Dierckx, Paul; Bultheel, Adhemar) Uniform Powell-Sabin spline wavelets. (English summary) **2004b:65022**
Wu, Hong-yi Dual bases for a new family of generalized Ball bases. (English summary) **2004j:65026**
Wu, Ming Hua *see* **Dong, Guang Chang et al.**
Wu, Zong Min Geometric continuous B-spline—a generalization of the approach of γ-spline. (English summary) **2004m:65021**
Xu, Guo-liang *see* **Bajaj, Chanderjit L. et al.**, **2004j:65021**
Xu, Jiachuan *see* **Wang, Yulin et al.**
Yang, Jun *see* **Zeng, Xiao Ming[2]**
Yang, Qinmin (*with* Wang, Guo Zhao) Inflection points and singularities on C-curves. (English summary) **2004k:65030**
Yang, Wu *see* **Chen, Falai**, **2004m:65013**
Yang, XingQiang *see* **Zhang, Cai Ming et al.**, **2004i:65016**
Yang, Xun Nian *see* **Luo, Wei Lan et al.**
Ye, Zheng Lin *see* **Meng, Ya Qin et al.** *and* **Wang, Xiao Ping[3] et al.**
Yong, Jun-Hai (*with* Cheng, Fuhua) Geometric Hermite curves with minimum strain energy. (English summary) **2004m:65022**
You, Fang *see* **Wang, Ruomei et al.**
You, Hong *see* **Cao, Li Xin et al.**
Yu, Pi Qiang (*with* Shi, Xi Quan[2]) G^1 continuity conditions for bicubic NURBS surfaces. (Chinese. English and Chinese summaries)
Yu, Zhan-Yue *see* **Wang, Xiao Ping[3] et al.**
Zeng, Fang-ling (*with* Chen, Falai) Degree reduction of rational curves by μ-bases. (English summary) (*see* **2004m:00010**)
Zeng, Xiao Ming[2] (*with* Yang, Jun) Error analysis for Catmull-Clark subdivision surfaces. (Chinese. English and Chinese summaries)
Zhang, Cai Ming (*with* Yang, XingQiang; Wang, Jia Ye) Approaches for constrained parametric curve interpolation. (English summary) **2004i:65016**
Zhang, Gui Cang *see* **Liu, Xue Yan**
Zhang, Jing Qiao (*with* Wang, Guo Jin[1]) Curve interpolation based on Catmull-Clark subdivision scheme. (English summary) **2004b:65023**
Zhang, Li-yan *see* **Shen, Hui-cun et al.**
Zhang, Luzou *see* **Wang, Yulin et al.**, **2004h:65022**
Zhang, Ren Jiang (*with* Wang, Guo Jin[1]) Improvement of the termination criterion for subdivision of the rational Bézier curves. (Chinese. English and Chinese summaries)
Zhang, Shugong (*with* Li, Yurong; Lei, Na) Existence criteria of blending surfaces of three quadric surfaces—Wu Wen-tsun's formulae. **2004j:65027**
Zhao, Bingyan *see* **Wang, Yulin et al.**, **2004h:65022**
Zhao, Jiang[2] *see* **Ge, Jin Hui et al.**
Zhao, Shu Feng Error analysis on the de Boor algorithm. (Chinese. English and Chinese summaries)
Zhao, Yan (*with* Ge, Ren Dong) G^1 continuity of B-spline surfaces. (Chinese. English and Chinese summaries)
Zheludev, V. A. (*with* Averbuch, Amir Z.; Gruzd, Marina) Interpolatory subdivision schemes generated by splines. (English summary) (*see* **2004j:65005**)
Zheng, Hong Chan *see* **Meng, Ya Qin et al.**
Zheng, Jian Min[1] (*with* Sederberg, Thomas W.) Gaussian and mean curvatures of rational Bézier patches. (English summary) **2004h:65023**
— *see also* **Luo, Wei Lan et al.**
Zhou, Lai-shui *see* **Shen, Hui-cun et al.**
Zhou, Ru Rong *see* **Wang, Xiao Ping[3] et al.**
Zhu, Gong Qin *see* **Guo, Qing Wei**, **2004k:65024**
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Gröller, Eduard *see* **Hauser, Helwig et al., (2004j:65006)**
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Ivrissimtzis, Ioannis *see* **Rössl, Christian et al., (2004j:65004)**
Jansson, Christian *see* **Garloff, Jürgen et al., 2004e:65052**
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Kovács, Emőd *see* **Hoffmann, Miklós**
Kühne, Gerald *see* **Weickert, Joachim**
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Müller, Heinrich Augustinus *see* **Mencl, Robert, (2004j:65006)**
Olano, Marc *see* **Cohen, Jonathan D. et al., 2004i:68226**
Osher, Stanley J. *see* **Bertalmío, Marcelo et al.**
Oswald, Peter *see* **Jiang, Qingtang T. et al., 2004d:41033**
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Sakai, Manabu *see* **Habib, Zulfiqar, 2004a:65013**
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Theußl, Thomas *see* **Hauser, Helwig et al., (2004j:65006)**
Tokuyama, Yoshimasa *see* **Satoh, Naoyuki**
Tu, Changhe *see* **Wang, Wen Ping[1] et al., 2004j:65030**
Voiculescu, Irina *see* **Shou, Huahao et al., (2004m:65003)**
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65D18 Computer graphics and computational geometry [see also 51N05, 68U05]

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Guan, Lü Tai (*with* Liu, Bin) Surface design by natural splines over refined grid points. (English summary) **2004m:65026**

Guo, Jian Min *see* **Feng, Jie Qing et al.**

Hagen, Hans *see* **Hotz, Ingrid**, (**2004j:65006**)

Hamann, Bernd *see* **Bremer, P.-T. et al.**, (**2004j:65004**)

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Poon, Sheung-Hung *see* **Cheng, Siu-Wing, (2004a:68002)**
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Quiroz, Luis *see* **Olivencia, José, 2004c:65012**
Ravani, Bahram *see* **Hofer, Michael et al., 2004m:65027**
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Rokne, Jon *see* **Gavrilova, Marina L., 2004f:65022**
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Seidel, Hans-Peter *see* **Schneider, Robert et al.**
Sendra, J. Rafael *see* **Pérez-Díaz, Sonia, 2004j:65028**
Sestini, Alessandra *see* **Farouki, Rida T. et al., 2004c:65011** *and* **(2004j:65004)**
Shevchenko, A. O. *see* **Kolodyazhnyĭ, V. M.**
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Toriwaki, Jun-ichiro *see* **Maeno, Kagayaki et al.**
Traas, C. R. 'Optimal' triangulation of surfaces and bodies. (English summary) (*see* **2004d:00013**)
Tsai, Yen-Hsi Richard *see* **Jin, Hailin et al., 2004k:65034**
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Vandergheynst, Pierre *see* **Aspert, Nicolas et al., 2004d:65025**
Várady, Tamás *see* **Kós, Géza, (2004j:65004)**
Vetterli, Martin *see* **Balmelli, Laurent et al., 2004d:65026**
Vishnu, B. *see* **Kumar, V. S. Anil**
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Wetzel, Thomas J. *see* **Bez, Helmut E., 2004e:65019** *and* **2004i:65018**
Xia, Liang Zheng *see* **Li, Jiu Xian et al., 2004b:65026**
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Yezzi, Anthony, Jr. *see* **Jin, Hailin et al., 2004k:65034**
Žalik, Borut *see* **Gomboši, Matej**
Zhang, Li-yan *see* **He, Meifang et al.**
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Zhou, Deng Wen *see* **Ding, Jun Yong et al.**
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Aurenhammer, Franz *see* **Aichholzer, Oswin et al., 2004g:68175**
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Boehm, Wolfgang *see* **Prautzsch, Hartmut et al., 2004e:65017**
Boissonnat, Jean-Daniel *see* **Malandain, Grégoire, 2004j:68180**
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Carvalho, Paulo Cézar Pinto *see* **de Figueiredo, Luiz Henrique, 2004e:65001**
Casciola, Giulio (*with* Morigi, S.) The trimmed NURBS age. (English summary) (*see* **2004h:65007**)
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Chen, Falai Approximate implicitization of rational surfaces. (English summary) (*see* **2004d:00013**)
— (*with* Wang, Wen Ping[1]) Computing real inflection points of cubic algebraic curves. (English summary) **2004d:65022**
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Chen, Jian Wei *see* **Ren, Shi Jun et al.**
Cheong, Otfried (*with* Shin, Chan-Su; Vigneron, Antoine) Computing farthest neighbors on a convex polytope. (English summary) **2004e:68111**
Choo, Kyowoong *see* **Yun, Il Dong et al.**
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Deng, Lin *see* **Chen, Falai, 2004m:65014**
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Farkhi, Elza *see* **Dyn, Nira, 2004e:41003**
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(Goldman, Ronald N.) *see* **Topics in algebraic geometry and geometric modeling, 2004j:00026**
Gomes, Jose *see* **Faugeras, Olivier et al.**
Guo, Qing Wei (*with* Zhu, Gong Qin) A method for approximate merging of two adjacent Bézier curves. (Chinese. English and Chinese summaries) **2004k:65024**
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Guskov, Igor *see* **Khodakovskiĭ, A. M., (2004j:65006)**
Hagen, Hans *see* **Bertram, Martin et al.**
Hahmann, Stefanie *see* **Bonneau, Georges-Pierre, (2004j:65006)**
Halperin, Dan *see* **Ezra, Eti et al., 2004m:68258**
Hamann, Bernd *see* **Geometric modeling for scientific visualization, 2004j:65006** *and* **Bertram, Martin et al.**
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Icking, C. *see* **Abellanas, M. et al., 2004d:68160**
Indyk, Piotr *see* **Basch, Julien et al., 2004e:68110**
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Joy, Kenneth I. *see* **Bertram, Martin et al.**
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Kawamo, Keishi *see* **Kato, Kiyotaka et al., 2004a:65016**
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Keyser, John *see* **Culver, Tim et al., 2004m:65060**
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Konkle, Shirley E. *see* **Bertram, Martin et al.**
Koriyama, Akira *see* **Ozaki, Katsuhisa**
(Krasauskas, Rimvydas) *see* **Topics in algebraic geometry and geometric modeling, 2004j:00026**
Krasser, Hannes *see* **Aichholzer, Oswin et al., 2004g:68175**
Krishnan, Shankar *see* **Culver, Tim et al., 2004m:65060**
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Langetepe, Elmar *see* **Abellanas, M. et al., 2004d:68160**
Lee, Sang Uk *see* **Yun, Il Dong et al.**
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Li, Xiang-Yang Generating well-shaped d-dimensional Delaunay meshes. (English summary) **2004b:68168**
Lindgren, Finn ★ Stochastic modelling and reconstruction of random shapes. **2004f:62137**
(Linsen, Lars) *see* **Geometric modeling for scientific visualization, 2004j:65006**
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Ma, Lihong *see* **Abellanas, M. et al., 2004d:68160**
Machiraju, Raghu *see* **Kim, Yootai et al., (2004j:65006)**
Malandain, Grégoire (*with* Boissonnat, Jean-Daniel) Computing the diameter of a point set. (English summary) **2004j:68180**
Malgouyres, Rémy *see* **Burguet, Jasmine, 2004b:68161**
Manocha, Dinesh *see* **Cohen, Jonathan D. et al., 2004i:68226** *and* **Culver, Tim et al., 2004m:65060**
Martin, Ralph R. *see* **Bowyer, Adrian et al., (2004m:65003)**
Masmoudi, Mohamed *see* **Allaire, Grégoire et al.**
Meek, D. S. *see* **Walton, D. J. et al., 2004f:65020**
Meijer, Henk *see* **Hurtado, Ferran et al., 2004d:05186** *and* **Díaz-Báñez, J. M. et al., 2004h:68142**
Meng, Qing Xin *see* **Ren, Shi Jun et al.**
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(Merrien, Jean-Louis) *see* **Curve and surface fitting, 2004j:65005**
Meyer, Mark (*with* Desbrun, Mathieu; Schröder, Peter; Barr, Alan H.) Discrete differential-geometry operators for triangulated 2-manifolds. (English summary) **2004k:53004**
Mikami, Hiroshi *see* **Kato, Kiyotaka et al., 2004a:65016**
Mikula, Karol *see* **Handlovičová, Angela et al., 2004b:65117**
Modersitzki, Jan *see* **Fischer, Bernd[1], (2004j:00014)**
Mohammadi, Bijan *see* **Allaire, Grégoire et al.**
Morigi, S. *see* **Casciola, Giulio, (2004h:65007)**
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Mourrain, Bernard *see* **Elkadi, Mohamed, 2004k:65023**
(Müller, Heinrich Augustinus) *see* **Geometric modeling for scientific visualization, 2004j:65006**
Ngoc-Minh Lê Abstract Voronoi diagram in 3-space. (English summary) **2004m:68261**
Nicolescu, Bogdan *see* **Homentcovschi, Laurentiu, 2004b:52038**
Nievergelt, Yves Perturbation analysis for circles, spheres, and generalized hyperspheres fitted to data by geometric total least-squares. (English summary) **2004j:65019**
(Niranjan, Mahesan) *see* **Uncertainty in geometric computations, 2004m:65003**
Nishimura, Keisuke *see* **Kato, Kiyotaka et al., 2004a:65016**
Olano, Marc *see* **Cohen, Jonathan D. et al., 2004i:68226**
Osher, Stanley J. *see* **Zhao, Hong-Kai**
Oyama, Hiromine *see* **Kato, Kiyotaka et al., 2004a:65016**
Ozaki, Katsuhisa (*with* Koriyama, Akira) Spherical data and ray tracing of surfaces in n-dimensional space. (English summary)
Palop, B. *see* **Abellanas, M. et al., 2004d:68160**
Paluszny, Marco *see* **Prautzsch, Hartmut et al., 2004e:65017**
Patrignani, Maurizio *see* **Di Giacomo, Emilio et al.**
Peng, Guo Hua *see* **Shi, Xiong Hui, 2004h:65021**
Perwass, Christian *see* **Rosenhahn, Bodo et al., 2004m:68266**
Peternell, Martin (*with* Pottmann, Helmut) Approximation in the space of planes: applications to geometric modeling and reverse engineering. (English and Spanish summaries) **2004c:65010**
Peters, Jörg *see* **Karčiauskas, Kęstutis et al.**
Polthier, Konrad Unstable periodic discrete minimal surfaces. (English summary) **2004j:53018**
Pottmann, Helmut *see* **Peternell, Martin, 2004c:65010**
Prautzsch, Hartmut (*with* Boehm, Wolfgang; Paluszny, Marco) ★ Bézier and B-spline techniques. **2004e:65017**
Pridatko, D. I. *see* **Stoyan, Yu. G. et al.**
Qin, Kaihuai *see* **Wang, Huawei, 2004g:65016**
Rappaport, David *see* **Díaz-Báñez, J. M. et al., 2004h:68142**
Reif, Ulrich *see* **Karčiauskas, Kęstutis et al.**
Ren, Shi Jun (*with* Meng, Qing Xin; Chen, Jian Wei) A hybrid algorithm for determination of emptiness of regions bounded by linear constraints. (Chinese. English and Chinese summaries)
Romanova, T. E. *see* **Stoyan, Yu. G. et al.**
Rosenhahn, Bodo (*with* Perwass, Christian; Sommer, Gerald) Free-form pose estimation by using twist representations. (English summary) **2004m:68266**
Rössl, Christian *see* **Ivrissimtzis, Ioannis et al., (2004j:65006)**
Sabin, Malcolm *see* **Ivrissimtzis, Ioannis et al., 2004k:65026**
Sacristán, Vera *see* **Abellanas, M. et al., 2004d:68160**
Sadakane, Kunihiko (*with* Sugawara, Norito; Tokuyama, Takeshi) Quantum computation in computational geometry. (English summary) **2004c:81063**
dos Santos, Jorge Manuel Filipe *see* **Lodwick, Weldon A., 2004c:41072**

Satoh, Naoyuki (*with* Tokuyama, Yoshimasa) Method for generating offset surfaces without very small elements. (Japanese. English and Japanese summaries)
Schröder, Peter *see* **Meyer, Mark et al., 2004k:53004**
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Philippe, B. *see* **Bertrand, O.**, **2004c:65039**

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Printems, Jacques *see* **Pagès, Gilles**, **2004h:62148**

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Ritter, Klaus *see* **Plaskota, Leszek et al.**, **2004b:65221**

Ryabov, V. M. *see* **Matveeva, T. A.**, **2004g:65181**

Safouhi, Hassan *see* **Berlu, Lilian**, **2004k:81436**

Sánchez-Ruiz, Jorge Information entropy of Gegenbauer polynomials and Gaussian quadrature. (English summary) **2004f:33025**

Scheicher, Klaus *see* **Larcher, Gerhard et al.**, **2004f:65003** *and* **2004g:65006**

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Varošanec, Sanja *see* **Pečarić, Josip E.**, **2004c:26041**

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Voĭtishek, A. V. (*with* Kablukova, E. G.) Using the approximation functional bases in Monte Carlo methods. (English summary) **2004k:65011**

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Wei, Gang[1] *see* **Hong, Hee Sun et al.**, **2004e:11080** *and* **Mathé, Peter**, **2004k:65008**

Wojtaszczyk, Jakub Onufry Multivariate integration in $C^\infty([0,1]^d)$ is not strongly tractable. (English summary) **2004g:65191**

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Problems:

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Chen, Shao Chun *see* **Song, Shi Cang**
Coman, Gheorghe (*with* Mitran, Cătălin) On some homogeneous cubature formulas. (English summary) **2004h:65027**
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De Bonis, Maria Carmela (*with* Mastroianni, Giuseppe) Some simple quadrature rules for evaluating the Hilbert transform on the real line. (English summary) **2004i:65022**
Espelid, Terje O. Doubly adaptive quadrature routines based on Newton-Cotes rules. (English summary) **2004i:65023**
Fedotova, I. M. *see* **Noskov, M. V., 2004k:65043**
Genz, Alan Fully symmetric interpolatory rules for multiple integrals over hyper-spherical surfaces. (English summary) **2004e:65027**
Germano, B. *see* **Belingeri, C., 2004b:65032**
Hasegawa, Takemitsu *see* **Hibino, Susumu et al., 2004j:65036**
He, Matthew X. *see* **Bretti, Gabriella et al., 2004a:65025**
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Hosoda, Yohsuke *see* **Hibino, Susumu et al., 2004j:65036**
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Lyness, J. N. Notes on lattice rules. (English summary) **2004d:65035**
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Milovanović, Gradimir V. (*with* Cvetković, Aleksandar S.) Note on a construction of weights in Gauss-type quadrature rule. (English summary) **2004k:65042**
Mitran, Cătălin *see* **Coman, Gheorghe, 2004h:65027**
Monegato, Giovanni *see* **Mastroianni, Giuseppe, (2004h:65007)**
Ninomiya, Ichizo *see* **Hibino, Susumu et al., 2004j:65036**
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Notaris, Sotirios E. New interpolatory quadrature formulae with Gegenbauer abscissae. (English summary) **2004j:65037**
Osipov, N. N. On the construction of series of lattice cubature formulas of rank 1 that are exact on trigonometric polynomials. (Russian. Russian summary) **2004a:65026**
Petrova, Guergana Cubature formulae for spheres, simplices and balls. (English summary) **2004k:65044**
Pop, Ioana *see* **Coman, Gheorghe et al., 2004g:65024**
Reichel, Lothar *see* **Calvetti, Daniela, 2004k:65040**
Ricci, Paolo Emilio *see* **Bretti, Gabriella et al., 2004a:65025**
Sato, Yoshio *see* **Hibino, Susumu et al., 2004j:65036**
Solomon, Maria *see* **Coman, Gheorghe, 2004j:65035**
Somogyi, Ildiko About some cubature formulas. (English summary) (*see* **2004d:65007**)
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65Fxx Numerical linear algebra

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65F10 Iterative methods for linear systems [see also 65N22]

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— (*with* Golub, Gene H.; Ng, Michael K.) Hermitian and skew-Hermitian splitting methods for non-Hermitian positive definite linear systems. (English summary) **2004c:65023**
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Bakushinskiĭ, A. B. On the rate of convergence of iterative regularization algorithms for solving linear problems with convex constraints. (Russian. Russian summary) **2004a:65033**
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Bentbib, A. H. *see* **Alaa, N. et al.**, **2004a:65031**
Benzi, Michele (*with* Bertaccini, Daniele) Approximate inverse preconditioning for shifted linear systems. (English summary) **2004i:65026**
— (*with* Tůma, Miroslav) A robust incomplete factorization preconditioner for positive definite matrices. (English summary) **2004h:65028**
Bertaccini, Daniele (*with* Ng, Michael K.) Block $\{\omega\}$-circulant preconditioners for the systems of differential equations. (English summary) **2004i:65027**
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Blatov, I. A. (*with* Kitaeva, E. V.) On the combination of the incomplete factorization method and the fast Fourier method for solving boundary value problems for the Poisson equation in domains with curvilinear boundary. (Russian. Russian summary) **2004e:65029**
Bollhöfer, Matthias A robust and efficient *ILU* that incorporates the growth of the inverse triangular factors. (English summary) **2004m:65034**
Boojhawon, Ravindra (*with* Bhuruth, Muddun) Restarted simpler GMRES augmented with harmonic Ritz vectors. (English summary) (*see* **2004j:00013**)
Brent, Richard P. *see* **Yang, Laurence Tianruo**, **2004h:65037**
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Bukhnikashvili, I. On one variant of Richardson's cyclic iterative method. (English and Georgian summaries)
Bußmann, A. *see* **Schmid, O. et al.**, (**2004k:65005**)
Byczanski, P. *see* **Blaheta, Radim et al.**
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Cai, Ming-Chao (*with* Jin, Xiao-Qing) A note on T. Chan's preconditioner. (English summary) **2004i:65028**
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Cao, Zhi-Hao Rounding error analysis of two-stage iterative methods for large linear systems. (English summary) **2004a:65034**
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— (*with* Huang, Zhao Hui) Efficient algebraic multigrid algorithms and their convergence. (English summary) **2004m:65035**
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Chang, Shing-Lin *see* **Chien, C.-S.**, **2004e:65032**
Chartier, Timothy P. (*with* Falgout, R. D.; Henson, V. E.; Jones, Jim E.; Manteuffel, T. A.; McCormick, Stephen F.; Ruge, J. W.; Vassilevski, Panayot S.) Spectral AMGe (ρAMGe). (English summary) **2004m:65036**
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Chen, Ke[1] *see* **Harris, Paul J.**
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Chikina, L. G. (*with* Krukier, B. L.) Solution of linear equation systems with a dominant skew-symmetric part using the product triangular iterative method. (English summary)
Ching, Wai-Ki *see* **Wen, You-Wei et al.**, **2004m:65043**
Chiorean, Ioana On some parallel relaxation schemes. (English summary) (*see* **2004d:65007**)
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Chow, Edmond Ten-Fu (*with* Vassilevski, Panayot S.) Multilevel block factorizations in generalized hierarchical bases. (English summary) **2004b:65037**
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Clees, Tanja (*with* Stüben, Klaus) Algebraic multigrid for industrial semiconductor device simulation. (English summary)
Climent, Joan-Josep (*with* Devesa, Antonio; Perea, Carmen) Convergence results for proper splittings. (English summary) (*see* **2004i:00008**)
— (*with* Perea, Carmen) Convergence and comparison theorems for a generalized alternating iterative method. (English summary) **2004c:65024**
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Corral, Cristina *see* **Giménez, Isabel et al.**, **2004a:65037**
Cullum, Jane K. (*with* Johnson, Keith; Tůma, Miroslav) Effects of problem decomposition (partitioning) on the rate of convergence of parallel numerical algorithms. (English summary) **2004h:65029**
Darmofal, David L. *see* **Lu, James**, **2004b:65042**
De Pierro, Álvaro R. *see* **Santos, Reginaldo J.**, **2004c:65034**
Devesa, Antonio *see* **Climent, Joan-Josep et al.**, (**2004i:00008**)
Dickstein, Flávio *see* **Carvalho, L. M. et al.**
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Echebest, N. *see* **Scolnik, H. et al.**, **2004b:65045**
Egorov, Andrei A. *see* **Abrashin, V. N. et al.**, **2004c:65022**
Eiermann, Michael (*with* Ernst, Oliver G.) Geometric aspects of the theory of Krylov subspace methods. (English summary) **2004j:65042**
El Guennouni, A. (*with* Jbilou, K.; Sadok, H.) A block version of BICGSTAB for linear systems with multiple right-hand sides. (English summary) **2004m:65038**
Elman, Howard C. *see* **Zavorin, Ilya et al.**, **2004f:65042**
El-Mikkawy, Moawwad E. A. A note on a three-term recurrence for a tridiagonal matrix. (English summary) **2004a:65035**
Elsner, Ludwig (*with* Frommer, Andreas; Nabben, Reinhard; Schneider, Hans; Szyld, Daniel B.) Conditions for strict inequality in comparisons of spectral radii of splittings of different matrices. (English summary) **2004b:65038**
Embree, Mark The tortoise and the hare restart GMRES. (English summary) **2004j:65043**
Erëmin, A. Yu. *see* **Nikishin, A. A.**, **2004c:65033**
Erlangga, Y. A. (*with* Vuik, C.; Oosterlee, C. W.) On a class of preconditioners for solving the Helmholtz equation. (English summary)
Ernst, Oliver G. *see* **Eiermann, Michael**, **2004j:65042**
Estatico, Claudio A class of filtering superoptimal preconditioners for highly ill-conditioned linear systems. (English summary) **2004a:65036**
Evans, David John[1] *see* **Li, Changjun**[1] **et al.**, **2004k:65053** *and* **Martins, M. Madalena et al.**
Falgout, R. D. *see* **Chartier, Timothy P. et al.**, **2004m:65036**
Fathi, Behrouz *see* **Liu, Bo et al.**, (**2004j:00013**)
Feuchter, D. (*with* Heppner, I.; Sauter, Stefan A.; Wittum, Gabriel) Bridging the gap between geometric and algebraic multi-grid methods. (English summary) **2004d:65040**
Fischer, Bernd[1] From orthogonal polynomials to iteration schemes for linear systems CG and CR revisited. **2004c:65025**
Frommer, Andreas BiCGStab(l) for families of shifted linear systems. (English summary) **2004c:65026**
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Fu, Shang Wu *see* **Mo, Ze Yao**, **2004g:65038**
Gao, Zhong Xi *see* **Yuan, Yu Bo et al.**
Garcia, Manuel V. P. (*with* Humes, Carlos, Jr.; Stern, J. M.) Generalized line criterion for Gauss-Seidel method. (English summary) **2004f:65035**
Garey, L. E. (*with* Shaw, R. E.; Zhang, Jing[8]) A parallel divide and conquer algorithm for non symmetric tridiagonal Toeplitz systems using conjugate gradient. (English summary) **2004c:65027**
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Golub, Gene H. (*with* Greif, Chen) On solving block-structured indefinite linear systems. (English summary) **2004h:65030**
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González, Patricia (*with* Cabaleiro, José C.; Pena, Tomás F.) Iterative solution of large linear systems with non-smooth submatrices using partial wavelet transforms and split-matrix matrix-vector multiplication. (English summary) **2004k:65050**
Gopalakrishnan, Jayadeep A Schwarz preconditioner for a hybridized mixed method. (English summary) **2004g:65033**
Grama, Ananth *see* **Sambavaram, Sreekanth R. et al.**
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Gravvanis, G. A. Explicit preconditioned domain decomposition schemes for solving nonlinear boundary value problems. (English summary) **2004f:65036**
Greif, Chen *see* **Golub, Gene H.**, **2004h:65030**
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Gustafson, Karl Operator trigonometry of preconditioning, domain decomposition, sparse approximate inverses, successive overrelaxation, minimum residual schemes. (English summary) **2004e:65033**
Hadjidimos, Apostolos (*with* Noutsos, D.; Tzoumas, M.) More on modifications and improvements of classical iterative schemes for M-matrices. (English summary) **2004c:65028**
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Harada, Kyouji *see* **Morimoto, Munenori et al.**, **2004m:65041**
Harbrecht, Helmut (*with* Paiva, Freddy; Pérez, Cristian; Schneider, Reinhold) Multiscale preconditioning for the coupling of FEM-BEM. (English summary) **2004g:65035**
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Henson, V. E. *see* **Chartier, Timothy P. et al.**, **2004m:65036**
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Huckle, Thomas (*with* Staudacher, Jochen) Multigrid preconditioning and Toeplitz matrices. (English summary) **2004b:65039**
Humes, Carlos, Jr. *see* **Garcia, Manuel V. P. et al.**, **2004f:65035**
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Ikramov, Khakim D. On a type of preconditioning for KKT-matrices. (Russian. Russian summary)
Ishiwata, Emiko *see* **Muroya, Yoshiaki**, **2004d:65043**
Jakl, O. *see* **Blaheta, Radim et al.**
Jbilou, K. *see* **El Guennouni, A. et al.**, **2004m:65038**
Jedrzejec, Henryk A. *see* **Woźnicki, Zbigniew I. et al.**
Jiang, Yu *see* **Shao, Xin Hui et al.**
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Johnson, Keith *see* **Cullum, Jane K. et al.**, **2004h:65029**

Jones, Jim E. *see* **Chartier, Timothy P. et al., 2004m:65036**
Kanschat, Guido Preconditioning methods for local discontinuous Galerkin discretizations. (English summary) **2004m:65039**
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Karátson, János *see* **Axelsson, Owe, 2004f:65034**
Khimich, A. N. (*with* Yakovlev, M. F.) On the total error in the calculation of linear mathematical models by iterative methods. (Russian. English and Ukrainian summaries) **2004h:65031**
Kim, Sang Wook[1] *see* **Yun, Jae Heon, 2004m:65044**
Kimmel, Ron (*with* Yavneh, Irad) An algebraic multigrid approach for image analysis. (English summary) **2004d:65042**
Kitaeva, E. V. *see* **Blatov, I. A., 2004e:65029**
Klar, Axel *see* **Seaïd, Mohammed**
Kotakemori, Hisashi (*with* Niki, Hiroshi; Okamoto, Naotaka) A two-step preconditioning method for solving dense linear systems. (English summary) **2004k:65052**
Krukier, B. L. *see* **Chikina, L. G.**
von Lavante, E. *see* **Schmid, O. et al., (2004k:65005)**
Le Calvez, C. *see* **Guillaume, Philippe et al., 2004g:65034** *and* **(2004j:00013)**
Lei, Siu-Long *see* **Lin, Fu Rong et al., 2004b:65041** *and* **Jin, Xiao-Qing, 2004f:65039**
Lembarki, A. *see* **Alaa, N. et al., 2004a:65031**
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— *see also* **Shao, Xin Hui et al.**
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Li, Ruiming Relationship of eigenvalues for USAOR iterative method applied to a class of p-cyclic matrices. (English summary) **2004b:65040**
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Li, Zheng *see* **Li, Changjun[1] et al., 2004k:65053**
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Liu, Fu Ti *see* **Huang, Ting Zhu** *and* **Yuan, Yu Bo et al.**
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Loghin, D. (*with* Wathen, Andrew J.) Schur complement preconditioning for elliptic systems of partial differential equations. (English summary) **2004h:65033**
Lu, James (*with* Darmofal, David L.) A quasi-minimal residual method for simultaneous primal-dual solutions and superconvergent functional estimates. (English summary) **2004b:65042**
Lu, Yu Zhen *see* **Dong, Pu**
Maleev, A. A. On the convergence of nonstationary iterations for block systems of linear equations. (Russian. Russian summary) **2004k:65055**
Malhotra, Manish[2] *see* **Wagner, Marcus Michael et al., 2004h:65036**
Mandel, Jan Local approximation estimators for algebraic multigrid. (English summary) **2004g:65037**
Manteuffel, T. A. *see* **Chartier, Timothy P. et al., 2004m:65036**
Margenov, Svetozar D. *see* **Axelsson, Owe, 2004j:65041** *and* **(2004h:00025)**
Martikainen, Janne Numerical study of two sparse AMG-methods. (English summary) **2004c:65032**
Martins, M. Madalena (*with* Evans, David John[1]; Trigo, M. E.) Convergence of the interval and point TOR method. (English summary)
Mas, José *see* **Giménez, Isabel et al., 2004a:65037**
Mateescu, Gabriel (*with* Ribbens, Calvin J.; Watson, Layne T.) A domain decomposition preconditioner for Hermite collocation problems. (English summary) **2004a:65040**
McCormick, Stephen F. *see* **Chartier, Timothy P. et al., 2004m:65036**
Meerbergen, Karl The solution of parametrized symmetric linear systems. (English summary) **2004h:65034**
Mejía, Carlos E. *see* **Cervantes C., G.**
Mittal, R. C. (*with* Al-Kurdi, A. H.) An efficient method for constructing an ILU preconditioner for solving large sparse nonsymmetric linear systems by the GMRES method. (English summary) **2004e:65035**
Mo, Ze Yao (*with* Fu, Shang Wu) Application of Krylov iterative methods to a two-dimensional three-temperature energy equation. (Chinese. English summary) **2004g:65038**
— *see also* **Gu, Tong Xiang et al., 2004f:65037**
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Molina, Brigida (*with* Petiton, Serge; Raydan, Marcos) An assessment of the preconditioned gradient method with retards for parallel computers. (English summary) **2004e:65036**
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— Comparisons between multiplicative and additive Schwarz iterations in domain decomposition methods. (English summary) **2004e:65037**
— *see also* **Elsner, Ludwig et al., 2004b:65038**
Nakashima, Yoshio *see* **Li, Xing[3] et al., 2004g:65036**
Neytcheva, Maya *see* **Axelsson, Owe, 2004b:65035; (2004j:00014)** *and* **(2004j:65007)**
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— (*with* Bai, Zhong-Zhi) A hybrid preconditioner of banded matrix approximation and alternating direction implicit iteration for symmetric sinc-Galerkin linear systems. (English summary) **2004e:65038**
— (*with* Sun, Hai-Wei; Jin, Xiao-Qing) Recursive-based PCG methods for Toeplitz systems with nonnegative generating functions. (English summary) **2004b:65043**
— *see also* **Bai, Zhong-Zhi et al., 2004c:65023; Bertaccini, Daniele, 2004i:65027** *and* **Wen, You-Wei et al., 2004m:65043**
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Nikishin, A. A. (*with* Erëmin, A. Yu.) Prefiltration technique via aggregation for constructing low-density high-quality factorized sparse approximate inverse preconditionings. (English summary) **2004c:65033**
Noutsos, D. (*with* Serra Capizzano, Stefano; Vassalos, P.) Spectral equivalence and matrix algebra preconditioners for multilevel Toeplitz systems: a negative result. (English summary) **2004g:65039**
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Oberai, Assad A. *see* **Wagner, Marcus Michael et al., 2004h:65036**
Okamoto, Naotaka *see* **Kotakemori, Hisashi et al., 2004k:65052**
O'Leary, Dianne P. *see* **Zavorin, Ilya et al., 2004f:65042**
Oosterlee, C. W. *see* **Erlangga, Y. A. et al.**
Paiva, Freddy *see* **Harbrecht, Helmut et al., 2004g:65035**
Pena, Tomás F. *see* **González, Patricia et al., 2004k:65050**
Perea, Carmen *see* **Climent, Joan-Josep et al., 2004c:65024; 2004i:65030; 2004m:65037** *and* **(2004i:00008)**
Pérez, Cristian *see* **Harbrecht, Helmut et al., 2004g:65035**
Petiton, Serge *see* **Molina, Brigida et al., 2004e:65036**
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Tortosa, Leandro *see* **Climent, Joan-Josep et al., 2004i:65030** *and* **2004m:65037**
Trigiante, Donato *see* **Iavernaro, Felice, 2004e:65034**
Trigo, M. E. *see* **Martins, M. Madalena et al.**
Tůma, Miroslav *see* **Benzi, Michele, 2004h:65028** *and* **Cullum, Jane K. et al., 2004h:65029**
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Patrício, João *see* **Júdice, Joaquim J. et al., 2004a:90118**
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Pena, Tomás F. *see* **González, Patricia et al., (2004i:00008)**
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Proskurowski, W. *see* **Dryja, Maksymilian, 2004b:65201**
Reichel, Lothar *see* **Calvetti, Daniela, 2004f:93058**
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65F15 Eigenvalues, eigenvectors

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65Hxx Nonlinear algebraic or transcendental equations

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65H10 Systems of equations

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65Jxx Numerical analysis in abstract spaces

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65J05 General theory

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— On the convergence and application of Stirling's method. (English summary) **2004f:65073**
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Ragni, Stefania *see* **Diele, Fasma, (2004j:00014)**
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Ramos, Higinio *see* **Vigo-Aguiar, Jesús**
Rández, L. *see* **Calvo Pinilla, M. et al., 2004j:65078**
Razzaghi, Mohsen *see* **Marzban, Hamid-Reza, 2004m:65083** *and* **Parand, K.**
Richardson, D. L. *see* **Vigo-Aguiar, Jesús, 2004f:65093**
Roselló, M. D. *see* **Chen-Charpentier, Benito M. et al., 2004e:65072**
Roux, Alet *see* **Lubuma, Jean M.-S., 2004i:65055**
Roy, Debasish *see* **Ramachandra, L. S., 2004d:65072**
Ruge, P. *see* **Trinks, C., 2004b:65096**
Sakat, A. *see* **Dubeau, François et al., 2004b:65090**
Schäfer, Uwe[2] Accelerated enclosure methods for ordinary free boundary problems. (English summary) **2004k:65108**
Schmitt, B. A. *see* **Podhaisky, H. et al., 2004b:65093**
Shalashilin, V. I. *see* **Danilin, A. N. et al.**
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Spaletta, Giulia *see* **Sofroniou, Mark, (2004h:65007)**
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Tamma, Kumar K. *see* **Kanapady, Ramdev et al., 2004e:65073**
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Trigiante, Donato *see* **Brugnano, Luigi, (2004h:65007)**
Trinks, C. (*with* Ruge, P.) Treatment of dynamic systems with fractional derivatives without evaluating memory-integrals. (English summary) **2004b:65096**
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Ubertini, F. *see* **Mancuso, M., 2004b:65092**
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Vermiglio, Rossana (*with* Torelli, L.) A stable numerical approach for implicit non-linear neutral delay differential equations. (English summary) **2004c:65068**
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Weinmüller, Ewa *see* **Auzinger, Winfried et al., 2004k:65103**
Wu, Deyun *see* **Lumsdaine, Andrew, 2004b:65091**
Wu, Xin Yuan *see* **Li, Qinghong, 2004j:65081**
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Yang, Zhong Hua[1] *see* **Guo, Qian, 2004m:65081**
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Koch, Othmar (*with* Weinmüller, Ewa) Analytical and numerical treatment of a singular initial value problem in avalanche modeling. (English summary) **2004j:34012**
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Laburta, M. P. *see* **Calvo Pinilla, M. et al., 2004b:65097**
Li, Shikang *see* **Elnagar, Gamal N., 2004f:93048**
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Lu, Ya Yan Computing a matrix function for exponential integrators. (English summary) **2004i:15029**
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Makino, Kyoko *see* **Hoefkens, Jens et al., 2004d:65060**
Martín Alustiza, J. A. *see* **Jódar, Lucas et al., 2004g:34110**
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Neta, Beny (*with* Lipowski, Yoram) A new scheme for trajectory propagation. (English summary) **2004f:70004**
Nijhoff, Frank W. *see* **Field, Chris M., 2004h:65136**
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Pérez-Rodríguez, S. *see* **González-Pinto, S. et al.**
Petzold, Linda R. *see* **Rathinam, Muruhan, 2004f:65108**
Piyawong, W. (*with* Twizell, E. H.; Gumel, A. B.) An unconditionally convergent finite-difference scheme for the SIR model. (English summary) **2004h:65068**
Politi, T. *see* **Lopez, Luciano et al., 2004c:34139**
Precup, Radu Convexity and quadratic monotone approximation in delay differential equations. (English summary) **2004j:34156**
Qin, Meng Zhao *see* **Wang, Yu Shun, 2004a:37117**
Ramaswamy, Mythily *see* **Srinivasa Rao, Ch. et al., 2004j:35257**
Rashed, M. T. Numerical solution of a special type of integro-differential equations. (English summary) **2004c:65174**
Rathinam, Muruhan (*with* Petzold, Linda R.) Dynamic iteration using reduced order models: a method for simulation of large scale modular systems. (English summary) **2004f:65108**
Ruge, P. (*with* Dresden, T. U.; Wagner, Nils; Stuttgart, U.) Evaluation of implicit time-stepping schemes by CG-approach. (English summary)

Ryabichev, Vyacheslav L. *see* **Makarov, Vladimir L. et al., 2004g:65076** *and* **Gavrilyuk, Ī. P. et al., 2004g:65079**
Sachdev, P. L. *see* **Srinivasa Rao, Ch. et al., 2004j:35257**
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Simeon, Bernd *see* **Schaub, Meike, 2004j:70004**
Simos, T. E. *see* **Vigo-Aguiar, Jesús et al., 2004k:70003**
Sin, Vai-kuong *see* **Jin, Xiao-Qing et al., 2004j:65045**
Sirvent, A. *see* **Jódar, Lucas et al., 2004g:34110**
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Sokolova, Svetlana P. (*with* Ivlev, Ruslan S.) Asymptotic stability of interval time-delay systems. (English summary) **2004f:65063**
Song, Li-Li *see* **Bai, Zheng-Jian et al., 2004a:65032** *and* **Jin, Xiao-Qing et al., 2004j:65045**
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Srivastava, Deepak Kumar *see* **Katti, C. P., 2004c:65069**
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Stuttgart, U. *see* **Ruge, P. et al.**
Tamma, Kumar K. *see* **Zhou, Xiangmin**
Trigiante, Donato *see* **Iavernaro, Felice et al., 2004d:65047**
Twizell, E. H. *see* **Piyawong, W. et al., 2004h:65068**
Vasylyk, V. B. *see* **Makarov, Vladimir L. et al., 2004g:65076**
Verwer, J. G. *see* **Hundsdorfer, Willem, 2004g:65001**
Vigo-Aguiar, Jesús (*with* Simos, T. E.; Ferrándiz Leal, José Manuel) Controlling the error growth in long-term numerical integration of perturbed oscillations in one or several frequencies. (English summary) **2004k:70003**
Villanueva Micó, R. J. *see* **Jódar, Lucas et al., 2004g:34110**
Wagner, Nils *see* **Ruge, P. et al.**
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"A four-stage method of the fifth order of accuracy for the numerical integration of systems of a special type" Correction to: "A four-stage method of the fifth order of accuracy for the numerical integration of systems of a special type" (Russian) [Zh. Vychisl. Mat. Mat. Fiz. **42** (2002), no. 8, 1179–1190; MR 2004d:65074a] by I. V. Olemskoĭ. (Russian) **2004d:65074b**

65L06 Multistep, Runge-Kutta and extrapolation methods

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Aceto, Lidia (*with* Trigiante, Donato) On the properties of matrices defining some classes of BVMs. (English summary) **2004j:65084**
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Durán Martín, Angel *see* **Cano, B., 2004i:65058** *and* **2004m:65085**
Eisa, M. M. M. *see* **El-Mikkawy, Moawwad E. A., 2004i:65059**
El-Mikkawy, Moawwad E. A. (*with* Eisa, M. M. M.) A general four-parameter non-FSAL embedded Runge-Kutta algorithm of orders 6 and 4 in seven stages. (English summary) **2004i:65059**
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Gómez, I. *see* **Franco, J. M., 2004e:65075**
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Paĭmushin, V. N. *see* **Dautov, R. Z. et al.**, **2004j:65093**
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Marušić, Miljenko *see* **Beroš, Ivo, 2004b:65015**
Mazzia, Francesca *see* **Iavernaro, Felice et al., 2004d:65047**
Micula, Gheorghe *see* **Caliò, F. et al., 2004e:65085**
Nie, Yi Yong *see* **Zhang, Tie et al., 2004g:65099**
Noor, Muhammad Aslam *see* **Al-Said, Eisa A., 2004f:65099**
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Shen, Zu He *see* **Liu, Guo Qing et al., 2004b:34113**
Singh, Arvind K. *see* **Pandey, Rajni Kant**
Sklyar, S. N. *see* **Rafatov, I. R., 2004i:65065**
Sobolevskii, Pavel E. *see* **Ashyralyev, Allaberen, 2004m:65102**
Taous, K. *see* **Belhachmi, Zakaria et al., 2004c:76138**
Trif, Damian *see* **Gheorghiu, Călin Ioan, 2004i:34053**
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65L12 Finite difference methods

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Linß, Torsten Robustness of an upwind finite difference scheme for semilinear convection-diffusion problems with boundary turning points. (English summary) **2004k:65121**
Lubuma, Jean M.-S. *see* **Angelov, Rumen Angelov**
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Singh, Arvind K. *see* **Pandey, Rajni Kant**
Sklyar, S. N. *see* **Rafatov, I. R., 2004i:65065**
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Tian, Li Xin *see* **Xu, Gang**
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Grahs, Thorsten ★ Nonlinear anisotropic diffusion filters for the numerical approximation of conservation laws. (German summary) **2004j:65003**
(Griebel, Michael) *see* **Polymer and cell dynamics, 2004j:92004**
(Herbin, Raphaèle) *see* **Finite volumes for complex applications, 2004e:65004**
Hundsdorfer, Willem (*with* Verwer, J. G.) ★ Numerical solution of time-dependent advection-diffusion-reaction equations. **2004g:65001**
(Iliev, Oleg) *see* **Morton, K. W.**
Knabner, Peter (*with* Angermann, Lutz) ★ Numerical methods for elliptic and parabolic partial differential equations. **2004j:65002**
Knupp, Patrick (*with* Salari, Kambiz) ★ Verification of computer codes in computational science and engineering. **2004e:65002**
(Konstantinov, Mikhail M.) *see* **Morton, K. W.**
(Kröner, Dietmar) *see* **Finite volumes for complex applications, 2004e:65004**
(Langtangen, Hans Petter) *see* **Advanced topics in computational partial differential equations, 2004k:65003**
Larsson, Stig (*with* Thomée, Vidar) ★ Partial differential equations with numerical methods. **2004f:65001**
(Lenz, Jürgen) *see* **Polymer and cell dynamics, 2004j:92004**
(Lions, Jacques-Louis) *see* **Handbook: Numerical analysis, 2004j:65001**
(Margenov, Svetozar D.) *see* **Morton, K. W.**
Mayers, David F. *see* **Morton, K. W.**
Morton, K. W. (*with* Mayers, David F.) ★ Числено решаване на частни диференциални уравнения. (Bulgarian) [Numerical solution of partial differential equations]
Salari, Kambiz *see* **Knupp, Patrick, 2004e:65002**
Seydel, Rüdiger ★ Tools for computational finance. **2004g:65004**
(Sommeijer, B. P.) *see* **Workshop: Innovative Time Integrators for PDEs**
Thomée, Vidar *see* **Larsson, Stig, 2004f:65001**
(Tveito, Aslak) *see* **Advanced topics in computational partial differential equations, 2004k:65003**
Verwer, J. G. *see* **Hundsdorfer, Willem, 2004g:65001** *and* **Workshop: Innovative Time Integrators for PDEs**

Items listed otherwise than by author

Advanced topics in computational partial differential equations ★ Advanced topics in computational partial differential equations. **2004k:65003**
Amsterdam ★ Workshop on Innovative Time Integrators for PDEs.
Bad Honnef ★ Polymer and cell dynamics. **2004j:92004**
Finite volumes for complex applications ★ Finite volumes for complex applications III. **2004e:65004**
Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. IX. **2004j:65001**
Polymer and cell dynamics ★ Polymer and cell dynamics. **2004j:92004**
Porquerolles ★ Finite volumes for complex applications III. **2004e:65004**
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65M06 Finite difference methods

Abdulle, Assyr (*with* E, Weinan) Finite difference heterogeneous multi-scale method for homogenization problems. (English summary) **2004i:65071**
Abgrall, Rémi Construction of genuinely multidimensional upwind distributive schemes. (English summary) (*see* **2004k:65005**)
Abrashin, V. N. (*with* Zhadaeva, N. G.) Efficient additive difference schemes for multidimensional nonlinear nonstationary problems. (Russian. Russian summary) **2004g:65102**
Adalsteinsson, David (*with* Sethian, James A.) Transport and diffusion of material quantities on propagating interfaces via level set methods. (English summary) **2004i:65072**
Adams, Loyce (*with* Li, Zhilin) The immersed interface/multigrid methods for interface problems. (English summary) **2004f:65109**
Afif, M. (*with* Amaziane, B.) Analysis of finite volume schemes for two-phase flow in porous media on unstructured grids. (English summary) (*see* **2004k:65005**)
Agarwal, Ramesh K. *see* **Reksoprodjo, H. S. R.**
Ağiroğlu, Onur *see* **Tanoğlu, Gamze B.**
Aiso, Hideaki *see* **Marinova, Rossitza S. et al.**
Alcrudo, Francisco (*with* Benkhaldoun, Fayssal) The convergence of some numerical schemes for the shallow water equations with a singular source term. (English summary) (*see* **2004e:65004**)
Allegretto, Walter (*with* Lin, Yan-ping; Yang, Hongtao) Numerical pricing of American put options on zero-coupon bonds. (English summary) **2004f:65111**
Alouges, François (*with* De Vuyst, Florian; Le Coq, Gérard; Lorin, Emmanuel) The reservoir scheme for systems of conservation laws. (English summary) (*see* **2004e:65004**)
Al-Saif, A. S. J. (*with* Zhu, Zheng-You) Application of mixed differential quadrature method for solving the coupled two-dimensional incompressible Navier-Stokes equation and heat equation. (English summary)
Al′shin, A. B. (*with* Al′shina, E. A.) Numerical solution of initial-boundary value problems for equations of composite type in unbounded domains. (Russian. Russian summary) **2004c:65083**
Al′shina, E. A. *see* **Al′shin, A. B., 2004c:65083**
Álvarez, Ramón *see* **Ureña, Francisco et al.**
Al-Zanaidi, M. A. (*with* Chawla, M. M.) A class of modified midpoint formulas for parabolic equations. (English summary) **2004b:65109**
— (*with* Chawla, M. M.) A high-accuracy box scheme for first-order systems of hyperbolic conservation laws. (English summary) **2004a:65096**
— (*with* Chawla, M. M.) A class of linearly implicit trapezoidal formulas for nonlinear parabolic equations. (English summary) **2004f:65110**
— *see also* **Chawla, M. M. et al.**
Amadori, Debora (*with* Gosse, Laurent; Guerra, Graziano) Godunov-type approximation for a general resonant balance law with large data. (English summary) **2004m:65114**
Amaziane, B. *see* **Afif, M., (2004k:65005)**
Amiraliyev, Gabil M. *see* **Gülle, Aytekin**
Angelov, Rumen Angelov (*with* Lubuma, Jean M.-S.; Mahudu, Simon K.) Qualitatively stable finite difference schemes for advection-reaction equations. (English summary) **2004k:65127**
Angot, Philippe *see* **Coré, Xavier et al., (2004e:65004)**
Aoufi, Asdin A finite volume scheme for a nonlinear reaction-diffusion PDE arising in combustion. (*see* **2004j:35006**)
Araújo, A. L. (*with* Ferreira, José Augusto Mendes; de Oliveira, Paula; Patrício, F.; Rosa, P.) The use of splitting methods in the numerical simulation of reacting flows. (English summary)
Arminjon, P. (*with* St-Cyr, A.) New space staggered and time interleaved 2nd order finite volume methods. (English summary) (*see* **2004j:00016**)
— (*with* St-Cyr, A.) Nessyahu-Tadmor-type central finite volume methods without predictor for 3D Cartesian and unstructured tetrahedral grids. (English summary)

2004e:65089

Artebrant, Robert (*with* Schroll, Hans Joachim) High-resolution Riemann-solver-free methods for conservation laws. (English summary) (*see* **2004j:00016**)

Ashyralyev, Allaberen (*with* Yurtsever, A.) On a nonlocal boundary value problem for semilinear hyperbolic-parabolic equations. (English summary) **2004f:65112**

— (*with* Karatay, I.) On the second order of accuracy difference schemes of the nonlocal boundary value problem for parabolic equations. (English summary) **2004m:65115**

Baboolal, S. *see* **Naidoo, R.**, (**2004j:00013**)

Baeder, James D. *see* **Duraisamy, Karthikeyan et al.**

Bahadır, A. Refik A fully implicit finite-difference scheme for two-dimensional Burgers' equations. (English summary) **2004a:65097**

Balakrishnan, Narayanrao (*with* Praveen, C.) A new upwind least squares finite difference scheme (LSFD-U) for Euler equations of gas dynamics. (English summary) (*see* **2004k:65005**)

— *see also* **Sridar, D.**, **2004d:65094**

Bale, Derek S. (*with* LeVeque, Randall J.; Mitran, Sorin; Rossmanith, James A.) A wave propagation method for conservation laws and balance laws with spatially varying flux functions. (English summary) **2004a:65098**

Ballmann, J. *see* **van Keuk, J.**, (**2004k:65005**)

Banda, Mapundi K. (*with* Seaïd, Mohammed) A class of the relaxation schemes for two-dimensional Euler systems of gas dynamics. (English summary) (*see* **2004j:00012**)

— (*with* Junk, Michael; Klar, Axel) Kinetic derivation of a finite difference scheme for the incompressible Navier-Stokes equation. (English summary) **2004d:65085**

Banerjee, Saswatee *see* **Cole, James B.**, **2004m:65118**

Bao, Weizhu (*with* Jin, Shi) High-order I-stable centered difference schemes for viscous compressible flows. (English summary) **2004c:65084**

Baranowska, Anna (*with* Kamont, Zdzisław) Numerical approximation of first order partial differential equations with deviated variables. (English summary) **2004m:65116**

Barash, Danny (*with* Schlick, Tamar; Israeli, Moshe; Kimmel, Ron) Multiplicative operator splittings in nonlinear diffusion: from spatial splitting to multiple timesteps. (English summary) **2004i:65073**

Barberon, Thomas (*with* Helluy, Philippe) Finite volume simulations of cavitating flows. (English summary) (*see* **2004e:65004**)

Bastian, Peter Higher order discontinuous Galerkin methods for flow and transport in porous media. (English summary)

Baumgart, Johannes *see* **Magin, Thierry et al.**, (**2004e:65004**)

Benito, Juan José *see* **Ureña, Francisco et al.**

Benkhaldoun, Fayssal Analysis and validation of a new finite volume scheme for nonhomogeneous systems. (English summary) (*see* **2004e:65004**)

— *see also* **Alcrudo, Francisco**, (**2004e:65004**)

Berger, Marsha J. (*with* Helzel, Christiane) Grid aligned h-box methods for conservation laws in complex geometries. (English summary) (*see* **2004e:65004**)

— (*with* Helzel, Christiane; LeVeque, Randall J.) h-box methods for the approximation of hyperbolic conservation laws on irregular grids. (English summary) **2004g:65103**

Berridge, Steffan (*with* Schumacher, Hans) An irregular grid method for solving high-dimensional problems in finance. (English summary) (*see* **2004j:00013**)

Berthelin, Florent Numerical flux-splitting for a class of hyperbolic systems with unilateral constraint. (English summary) **2004g:65104**

Berthon, Christophe (*with* Nkonga, Boniface) Behavior of the finite volumes schemes in material and numerical interfaces. (English summary) (*see* **2004e:65004**)

— (*with* Reignier, Didier) An approximate nonlinear projection scheme for a combustion model. (English summary) **2004e:65090**

Bertolazzi, Enrico (*with* Manzini, Gianmarco) Polynomial reconstructions and limiting strategies in finite volume approximations. (English summary) (*see* **2004e:65004**)

Boglaev, Igor Uniform domain decomposition for a convection-diffusion problem. (*see* **2004e:65003**)

Bojović, Dejan Convergence in $W_2^{1,1/2}$ norm of finite difference method for parabolic problem. (English summary) **2004j:65110**

Bongiovanni, Emmanuel (*with* Ern, Alexandre; Glinsky-Olivier, Nathalie) A new relaxation method for the compressible Navier-Stokes equations. (English summary) (*see* **2004e:65004**)

Borsboom, Mart A finite volume method designed for error analysis. (English summary) (*see* **2004e:65004**)

Botchorishvili, Ramaz Equilibrium type schemes for scalar conservation laws with source term. (English and Georgian summaries) **2004c:65085**

— (*with* Pironneau, Olivier) Finite volume schemes with equilibrium type discretization of source terms for scalar conservation laws. (English summary) **2004c:65086**

Bouchut, François (*with* Jin, Shi; Li, Xiantao) Numerical approximations of pressureless and isothermal gas dynamics. (English summary) **2004d:65086**

Boucker, M. *see* **Méchitoua, N. et al.**, (**2004e:65004**)

Bourdarias, Christian (*with* Gerbi, Stéphane) An implicit finite volume scheme for unsteady flows in deformable pipe-lines. (English summary) (*see* **2004e:65004**)

Bowen, Mark *see* **Witelski, Thomas P.**, **2004c:65099**

Bradford, Scott F. Stability and accuracy of a semi-implicit Godunov scheme for mass transport. (English summary) **2004m:65117**

Bratsos, A. G. *see* **Ismail, M. S.**, **2004m:65122**

Breuß, Michael A theory of implicit methods for scalar conservation laws. (English summary) (*see* **2004j:00016**)

Brufau, P. (*with* García-Navarro, P.) A comparison between upwind and multidimensional upwind schemes for unsteady flow. (English summary) (*see* **2004k:65005**)

Bryson, Steve (*with* Levy, Doron) High-order schemes for multi-dimensional Hamilton-Jacobi equations. (*see* **2004j:00016**)

— (*with* Levy, Doron) High-order semi-discrete central-upwind schemes for multi-dimensional Hamilton-Jacobi equations. (English summary) **2004d:65087**

Buckmire, Ron Investigations of nonstandard, Mickens-type, finite-difference schemes for singular boundary value problems in cylindrical or spherical coordinates. (English summary) **2004b:65110**

Buet, Christophe (*with* Cordier, Stéphane) Asymptotic preserving scheme and numerical methods for radiative hydrodynamic models. (English and French summaries)

Bulut, Hasan *see* **Evans, David John[1]**

Caboussat, Alexandre (*with* Maronnier, Vincent; Picasso, Marco; Rappaz, Jacques) Numerical simulation of three dimensional free surface flows with bubbles. (English summary)

Cai, Xiao-Chuan *see* **Murillo, Maria**, (**2004j:00012**)

Caldwell, James (*with* Kwan, Y. Y.) Numerical methods for one-dimensional Stefan problems. (English summary)

Caltagirone, Jean-Paul *see* **Vincent, Stéphane**, (**2004k:65005**)

Camacho, Javier (*with* Defez, Emilio; Jódar, Lucas; Romero, J. V.) Discrete numerical solution of coupled mixed hyperbolic problems. (English summary) **2004j:65111**

Canouet, Nicolas (*with* Fezoui, Loula; Piperno, Serge) A finite volume time-domain method for the solution of Maxwell's equations on locally refined grids. (English summary) (*see* **2004e:65004**)

Capella, Antonio (*with* Sarrate, Josep) Numerical study of exact boundary controllability for the linear Korteweg-de Vries equation. (Spanish. English and Spanish summaries) **2004f:65113**

Carlini, Elisabeth (*with* Falcone, Maurizio; Ferretti, Roberto) An efficient algorithm for Hamilton-Jacobi equations in high dimension. (English summary)

Carrillo, José-Antonio (*with* Jüngel, Ansgar; Tang, Shaoqiang) Positive entropic schemes for a nonlinear fourth-order parabolic equation. (English summary) **2004e:65091**

Castro-Díaz, Manuel Jesús (*with* García-Rodríguez, José A.; Macías Sánchez, Jorge; Parés, Carlos; Vázquez-Cendón, María Elena) A two-layer numerical model for flows through channels with irregular geometry: application to the water exchange through the Strait of Gibraltar. (English summary) (*see* **2004e:65004**)

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Cerimele, M. M. (*with* Pistella, F.; Valente, Vanda) A numerical study of a nonlinear system arising in modeling of ferromagnets. (English summary) **2004e:65092**

Chacón Rebollo, Tomás (*with* Domínguez Delgado, Antonio; Fernández Nieto, Enrique D.) A general structure of numerical schemes for non homogeneous shallow water equations. (English summary) (*see* **2004e:65004**)

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— (*with* Domínguez Delgado, Antonio; Fernández Nieto, Enrique D.) Asymptotically balanced schemes for non-homogeneous hyperbolic systems—application to the shallow water equations. (English and French summaries)

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— (*with* Peng, Yue-Jun) Convergence of a finite-volume scheme for the drift-diffusion equations in 1D. (English summary) **2004a:65099**

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Chalons, Christophe[1] (*with* Coquel, Frédéric) Numerical approximation of the Navier-Stokes equations with several independent specific entropies. (English summary) (*see* **2004j:00016**)

Chan, Chi Kin *see* **Li, Xiang Gui**

Chang, Qian Shun *see* **Zhang, Lu Ming**, **2004h:65088**

Chanturiya, A. A. *see* **Criado, Francisco et al.**, **2004c:65088**

Chawla, M. M. Tridiagonal solver-based L-stable one-step schemes for nonlinear parabolic equations. (English summary)

— (*with* Al-Zanaidi, M. A.; Evans, David John[1]) Generalized trapezoidal formulas for the Black-Scholes equation of option pricing. (English summary)

— A new linearly implicit trapezoidal formula for nonlinear parabolic equations. (English summary) **2004k:65128**

— *see also* **Al-Zanaidi, M. A.**, **2004a:65096**; **2004b:65109** *and* **2004f:65110**

Cheema, T. A. (*with* Taj, M. S. A.; Twizell, E. H.) Third-order methods for first-order hyperbolic partial differential equations. (English summary) **2004k:65129**

Chehab, Jean-Paul (*with* Costa, Bruno) Time explicit schemes and spatial finite differences splittings. (English summary) **2004k:65130**

Chen, Guang Nan *see* **Wan, Zheng Su et al.**, **2004a:65113**; **2004d:65096** *and* **2004f:65128**

Chen, Zhen (*with* Gumel, A. B.; Mickens, Ronald E.) Nonstandard discretizations of the generalized Nagumo reaction-diffusion equation. (English summary) **2004c:65087**

Chen-Charpentier, Benito M. (*with* Kojouharov, Hristo V.) Numerical simulation of dual-species biofilms in porous media. (English summary) **2004k:65131**

Cheriet, M. (*with* Remaki, L.) Enhanced and restored signals as a generalized solution for shock filter models. II. Numerical study. (English summary) **2004h:65075**

Christakis, Nicholas (*with* Croft, T. Nicholas; Patel, Mayur K.) A new unstructured algorithm based on the volume of fluid method for tracking material interfaces in a finite-volume framework. (English summary) (*see* **2004e:65004**)

Christov, Christo I. *see* **Marinova, Rossitza S. et al.**

Čiegis, Raimondas (*with* Štikonas, Artūras; Štikonienė, Olga; Suboč, Olga) A monotone difference scheme for a parabolic problem with nonlocal boundary conditions. (Russian. Russian summary) **2004j:65112**

— (*with* Starikovičius, Vadimas) A finite-difference scheme for a nonlinear model of wood drying process. (English and Lithuanian summaries) **2004f:65114**

— Finite-difference schemes for a nonlinear parabolic problem with nonlocal boundary conditions. (*see* **2004j:35006**)

Clain, Stéphane A simple level set numerical scheme for unstructured meshes. (English summary) (*see* **2004e:65004**)

Clavero Gracia, Carmelo (*with* Gracia, J. L.) A HODIE method for 2D parabolic problems of convection-diffusion type. (English summary) (*see* **2004h:00021**)

— (*with* Jorge, J. C.; Lisbona, Francisco J.) A uniformly convergent scheme on a nonuniform mesh for convection-diffusion parabolic problems. (English summary) **2004d:65088**

Clerc, Sébastien A preconditioned finite volume scheme for the simulation of equilibrium two-phase flows. (English summary) (*see* **2004k:65005**)

Cole, James B. (*with* Banerjee, Saswatee) Applications of nonstandard finite difference models to computational electromagnetics. (English summary) **2004m:65118**

Comincioli, V. (*with* Naldi, Giovanni; Scapolla, T.; Toscani, Giuseppe) Multiscale hyperbolic equations: numerical approximation in the diffusive regime. (English summary) (*see* **2004h:65007**)

Coquel, Frédéric (*with* Marmignon, Claude) A Roe-type linearization for the Euler equations for weakly ionized gases. (English summary) (*see* **2004k:65005**)
— *see also* **Chalons, Christophe[1]**, (**2004j:00016**)
Cordier, Stéphane *see* **Buet, Christophe**
Coré, Xavier (*with* Angot, Philippe; Latché, Jean-Claude) A multilevel FIC projection method for low Mach natural convection flows. (English summary) (*see* **2004e:65004**)
Corre, Christophe *see* **Lerat, Alain et al.**, (**2004d:76003**)
Costa, Bruno *see* **Chehab, Jean-Paul**, **2004k:65130**
Cournède, P.-H. (*with* Desjardins, Benoît; Llor, A.) A TVD Lagrange plus remap scheme for the simulation of two-fluid flows. (English summary) (*see* **2004e:65004**)
Criado, Francisco (*with* Chanturiya, A. A.; Dzhgamadze, N. O.; Meladze, Gamlet; Skhirtladze, N. M.) Mathematical modelling of wreck events originated by dam collapse. (English summary) **2004c:65088**
Croft, T. Nicholas *see* **Christakis, Nicholas et al.**, (**2004e:65004**)
Croisille, Jean-Pierre (*with* Greff, Isabelle) A box scheme for convection-diffusion equations. (English summary) (*see* **2004e:65004**)
Dai, Wei-zhong (*with* Shen, Lixin[1]; Nassar, Raja) A convergent three-level finite difference scheme for solving a dual-phase-lagging heat transport equation in spherical coordinates. (English summary) **2004j:65113**
Deconinck, Herman *see* **Ricchiuto, Mario**, (**2004e:65004**)
Dedner, Andreas (*with* Rohde, Christian) FV-schemes for a scalar model problem of radiation magnetohydrodynamics. (English summary) (*see* **2004e:65004**)
— (*with* Kröner, Dietmar; Rohde, Christian; Schnitzer, T.; Wesenberg, Matthias) Comparison of finite volume and discontinuous Galerkin methods of higher order for systems of conservation laws in multiple space dimensions. (*see* **2004d:00025**)
— (*with* Rohde, Christian; Wesenberg, Matthias) Efficient higher-order finite volume schemes for (real gas) magnetohydrodynamics. (English summary) (*see* **2004j:00016**)
Defez, Emilio *see* **Camacho, Javier et al.**, **2004j:65111**
Degrez, Gérard *see* **Magin, Thierry et al.**, (**2004e:65004**)
Dehghan, Mehdi New schemes for a two-dimensional inverse problem with temperature overspecification. (English summary) **2004m:65119**
— Parallel techniques for a boundary value problem with non-classic boundary conditions. (English summary) **2004b:65111**
— Locally explicit schemes for three-dimensional diffusion with a non-local boundary specification. (English summary) **2004b:65112**
— Fractional step methods for parabolic equations with a non-standard condition. (English summary) **2004a:65100**
— Numerical solution of a parabolic equation with non-local boundary specifications. (English summary) **2004h:65076**
— Numerical procedures for a boundary value problem with a non-linear boundary condition. (English summary) **2004g:65105**
— Weighted finite difference techniques for the one-dimensional advection-diffusion equation. (English summary) **2004i:65074**
— Numerical schemes for one-dimensional parabolic equations with nonstandard initial condition. (English summary) **2004i:65075**
— Numerical solution of the three-dimensional advection-diffusion equation. (English summary) **2004k:65133**
Demkīv, L. Ī. *see* **Makarov, Vladimir L.**, **2004m:65126**
De Raedt, Hans *see* **Kole, J. Sebastiaan et al.**, (**2004j:00012**)
Descombes, Stéphane (*with* Dumont, T.; Massot, Marc) Operator splitting for stiff nonlinear reaction-diffusion systems: order reduction and application to spiral waves. (English summary) (*see* **2004e:00013**)
— (*with* Ribot, Magali) Convergence of the Peaceman-Rachford approximation for reaction-diffusion systems. (English summary) **2004i:65076**
Desjardins, Benoît *see* **Cournède, P.-H. et al.**, (**2004e:65004**)
Després, Bruno L^p estimates of convergence for finite volume approximation of linear advection on arbitrary grids. (English summary) (*see* **2004e:65004**)
De Vuyst, Florian Fluid modelling of buffer and processing systems, finite volume discretization. (English summary) (*see* **2004e:65004**)
— Stable and accurate hybrid finite volume methods based on pure convexity arguments for hyperbolic systems of conservation law. (English summary) **2004k:65132**
— *see also* **Alouges, François et al.**, (**2004e:65004**)
Dimitriu, Gabriel Parameter estimation in size/age structured population models using the moving finite element method. (English summary) (*see* **2004j:65007**)
Dinčov, Duško (*with* Parrott, Kevin; Pericleous, Koulis) Heat and mass transfer in microwave processing of moist biomaterials. (English summary) (*see* **2004e:65004**)
Dolejší, Vít A higher order scheme based on the finite volume approach. (English summary) (*see* **2004e:65004**)
Dominguez Delgado, Antonio *see* **Chacón Rebollo, Tomás et al.**, (**2004e:65004**) *and* (**2004h:00021**)
Donat, Rosa *see* **Stiriba, Y.**, **2004j:65126**
Donskoi, E. *see* **Shi, Jingyu et al.**, (**2004h:65005**)
Douglas, Jim, Jr. (*with* Kim, Seongjai; Lim, Hyeona) An improved alternating-direction method for a viscous wave equation. (English summary) (*see* **2004h:65005**)
Du, Zheng Ping (*with* Yin, Dongsheng; Liu, Xiao Yu[1]; Lu, Jin Fu) Nonorthogonal-hexahedral-mesh finite volume difference method for a 3-D diffusion equation. (Chinese. English and Chinese summaries)
Dubois, François Flux vector splitting and stationary contact discontinuity. (English summary) (*see* **2004k:65005**)
Dumont, T. *see* **Descombes, Stéphane et al.**, (**2004e:00013**)
Duraisamy, Karthikeyan (*with* Baeder, James D.; Liu, Jian-Guo[1]) Concepts and application of *time-limiters* to high resolution schemes. (English summary)
Düring, Bertram (*with* Fournié, Michel; Jüngel, Ansgar) High order compact finite difference schemes for a nonlinear Black-Scholes equation. (English summary) **2004j:65114**
Duru, Hakki Difference schemes for the singularly perturbed Sobolev periodic boundary problem. (English summary) **2004k:65134**
Dzhgamadze, N. O. *see* **Criado, Francisco et al.**, **2004c:65088**
E, Weinan *see* **Abdulle, Assyr**, **2004i:65071**
Edelvik, Fredrik Analysis of a finite volume solver for Maxwell's equations. (English summary) (*see* **2004k:65005**)
Elaskar, Sergio A. *see* **Tamagno, José P. et al.**, **2004k:65149**
Elbarbary, Elsayed M. E. M. *see* **Ismail, Hassan N. A. et al.**
El-Zoheiry, H. Numerical investigation for the solitary waves interaction of the "good" Boussinesq equation. (English summary) **2004b:65113**
Ern, Alexandre *see* **Bongiovanni, Emmanuel et al.**, (**2004e:65004**)
Esen, A. (*with* Kutluay, S.) A numerical solution of the Stefan problem with a Neumann-type boundary condition by enthalpy method. (English summary)
Esmaeeli, Asghar (*with* Tryggvason, Grétar) Computations of explosive boiling in microgravity. (English summary)
Evans, David John[1] (*with* Bulut, Hasan) The numerical solution of the telegraph equation by the alternating group explicit (age) method. (English summary)
— *see also* **Mohanty, R. K.** *and* **Chawla, M. M. et al.**
Ewert, Roland *see* **Meinke, M. et al.**, (**2004k:65005**)
Eymard, Robert Two-phase flow in porous media and finite volume schemes. (English summary) (*see* **2004e:65004**)
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— (*with* Gallouët, Thierry) H-convergence and numerical schemes for elliptic problems. (English summary) **2004h:65077**
Faille, Isabelle (*with* Flauraud, Eric; Nataf, Frédéric; Pégaz-Fiornet, Sylvie; Schneider, Frédéric; Willien, Françoise) A new fault model in geological basin modelling. Application of finite volume scheme and domain decomposition methods. (English summary) (*see* **2004e:65004**)
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Fairweather, Graeme (*with* Khebchareon, Morrakot) Numerical methods for Schrödinger-type problems. (English summary) **2004a:65101**
Falcone, Maurizio *see* **Carlini, Elisabeth et al.**
Fang, Qing Convergence of finite difference methods for convection-diffusion problems with singular solutions. (English summary) **2004f:65115**
Faragó, István (*with* Kovács, Mihály) On maximum norm contractivity of second order damped single step methods. (English summary) **2004b:65114**
Farea, Hussain A. *see* **Khalifa, Ahmed K.**, **2004c:65091**
Fedkiw, Ronald P. (*with* Sapiro, Guillermo; Shu, Chi-Wang) Shock capturing, level sets, and PDE based methods in computer vision and image processing: a review of Osher's contributions. (English summary) **2004c:65089**
Feistauer, Miloslav *see* **Felcman, Jiří**, (**2004k:65005**)
Felcman, Jiří (*with* Feistauer, Miloslav) Triangular, dual and barycentric finite volumes in fluid dynamics. (English summary) (*see* **2004k:65005**)
Feng, Min Fu (*with* Pan, Lu; Wang, Dian Zhi) Finite difference approximate solutions for the regularized long wave equation. (Chinese. English summary) **2004j:65115**
— *see also* **Li, Sheng Kun et al.**
Ferm, Lars (*with* Lötstedt, Per) Accurate and stable grid interfaces for finite volume methods. (English summary) **2004m:65120**
Fernández Nieto, Enrique D. *see* **Chacón Rebollo, Tomás et al.**, (**2004e:65004**) *and* (**2004h:00021**)
Ferreira, José Augusto Mendes *see* **Araújo, A. L. et al.**
Ferretti, Roberto *see* **Carlini, Elisabeth et al.**
Fey, Michael (*with* Torrilhon, Manuel) A constrained transport upwind scheme for divergence-free advection. (*see* **2004j:00016**)
Fezoui, Loula *see* **Canouet, Nicolas et al.**, (**2004e:65004**)
Fibich, Gadi (*with* Ilan, Boaz) Discretization effects in the nonlinear Schrödinger equation. (English summary) **2004a:65102**
Figge, Marc Thilo *see* **Kole, J. Sebastiaan et al.**, (**2004j:00012**)
Filbet, Francis (*with* Laurençot, Philippe) Numerical approximation of the Lifshitz-Slyozov-Wagner equation. (English summary) **2004g:65106**
Flauraud, Eric *see* **Faille, Isabelle et al.**, (**2004e:65004**)
Fornberg, Bengt *see* **Lee, Jongwoo**, **2004f:65121**
Fournié, Michel *see* **Düring, Bertram et al.**, **2004j:65114**
Frischmuth, K. (*with* Tsybulin, Vyacheslav) Computation of a family of non-cosymmetrical equilibria in a system of nonlinear parabolic equations. (English summary) **2004h:65078**
Frolkovič, Peter (*with* Geiser, Jürgen) Discretization methods with discrete minimum and maximum property for convection dominated transport in porous media. (English summary) (*see* **2004j:65007**)
Fu, Shang Wu *see* **Wu, Ji Ming et al.**, **2004e:65103**
Fuhrmann, Jürgen Multiphysics systems solution by time-implicit Voronoi box finite volumes. (English summary) (*see* **2004e:65004**)
Galanin, M. P. (*with* Yelenina, T. G.) Nonlinear monotonization of the Babenko scheme. (English and Lithuanian summaries) **2004i:65077**
Gallice, Gérard Positive and entropy stable Godunov-type schemes for gas dynamics and MHD equations in Lagrangian or Eulerian coordinates. (English summary) **2004e:65094**
Gallouët, Thierry (*with* Hérard, Jean-Marc; Seguin, Nicolas) Approximation by finite volume schemes of a two-fluid two-pressure model for two-phase flows. (English summary) (*see* **2004e:65004**)
— (*with* Hérard, Jean-Marc; Seguin, Nicolas) True rate of convergence of some upwinding finite volume schemes for Euler equations. (English summary) (*see* **2004e:65004**)
— (*with* Hérard, Jean-Marc; Seguin, Nicolas) On the use of symmetrizing variables for vacuums. (English summary) **2004j:65116**
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Gao, Feng[6] (*with* Wang, Ren Hong) Approximation by algebraic functions and its applications in construction of difference schemes for 1-dimensional heat conduction equation. (Chinese. English and Chinese summaries)
Gao, Jia Quan (*with* Zhang, Huai) A domain parallel difference scheme for reservoir numerical simulation equations on unstructured grids. (Chinese. English summary) **2004d:65089**
García, Juan Antonio *see* **Gascón, M. Ll.**, **2004a:65103**
García-Navarro, P. *see* **Brufau, P.**, (**2004k:65005**)
García-Rodríguez, José A. *see* **Castro-Díaz, Manuel Jesús et al.**, (**2004e:65004**)

Gascón, M. Ll. (*with* García, Juan Antonio) About the TVD property for the flux-corrected transport techniques. (English summary) **2004a:65103**

Gaspar, Francisco J. (*with* Lisbona, Francisco J.; Vabishchevich, Petr N.) Finite difference scheme for filtration and consolidation problems. (English summary) (*see* **2004j:65007**)

Gavete, Luis *see* **Ureña, Francisco et al.**

Geiser, Jürgen *see* **Frolkovič, Peter**, (**2004j:65007**)

Gerbi, Stéphane *see* **Bourdarias, Christian**, (**2004e:65004**)

Ghidaglia, Jean-Michel Numerical computation of 3D two phase flow by finite volumes methods using flux schemes. (English summary) (*see* **2004k:65005**)

— (*with* Pascal, Frédéric) Flux boundary conditions for hyperbolic systems of conservations laws in the finite volume framework. (English summary) (*see* **2004e:65004**)

Giles, Michael B. Discrete adjoint approximations with shocks. (*see* **2004j:00016**)

Givoli, Dan (*with* Neta, Beny) High-order non-reflecting boundary scheme for time-dependent waves. (English summary) **2004b:65115**

— (*with* Neta, Beny) High-order non-reflecting boundary conditions for dispersive waves. (English summary) **2004b:65116**

Glaister, P. Conservative upwind difference schemes for the Euler equations. (English summary)

Glinsky-Olivier, Nathalie *see* **Bongiovanni, Emmanuel et al.**, (**2004e:65004**)

Glowinski, Roland (*with* Lapin, A. V.; Lapin, S. A.) A penalty approach to the numerical simulation of a constrained wave motion. (English summary) **2004i:65078**

Godillon-Lafitte, Pauline Green's function pointwise estimates for the modified Lax-Friedrichs scheme. (English summary) (*see* **2004j:00016**)

— Green's function pointwise estimates for the modified Lax-Friedrichs scheme. (English summary) **2004d:65090**

Godlewski, Edwige (*with* Raviart, Pierre-Arnaud) Coupling nonlinear hyperbolic systems: mathematical and numerical analysis. (English summary) (*see* **2004e:65004**)

Goloviznin, V. M. (*with* Karabasov, S. A.; Kobrinskiĭ, I. M.) Balance-characteristic schemes with separated conservative and flux variables. (Russian. English and Russian summaries) **2004k:65135**

Gosse, Laurent (*with* Toscani, Giuseppe) Space localization and well-balanced schemes for discrete kinetic models in diffusive regimes. (English summary) **2004g:65107**

— *see also* **Amadori, Debora et al.**, **2004m:65114**

Gracia, J. L. *see* **Clavero Gracia, Carmelo**, (**2004h:00021**)

Grahs, Thorsten (*with* Meister, Andreas[2]; Sonar, Thomas) Nonlinear anisotropic artificial dissipation: characteristic filters for computation of the Euler equations. (English summary) (*see* **2004k:65005**)

Greff, Isabelle *see* **Croisille, Jean-Pierre**, (**2004e:65004**)

Grishchenko, O. Yu. *see* **Lyashko, Ī. Ī. et al.**

Grün, Günther (*with* Rumpf, Martin) Entropy consistent finite volume schemes for the thin film equation. (English summary) (*see* **2004k:65005**)

— (*with* Lenz, Martin; Rumpf, Martin) A finite volume scheme for surfactant driven thin film flow. (English summary) (*see* **2004e:65004**)

Gu, Yuanxian (*with* Liao, Wenyuan; Zhu, Jian Ping[2]) An efficient high-order algorithm for solving systems of 3-D reaction-diffusion equations. (English summary) **2004f:65116**

Guerra, Graziano *see* **Amadori, Debora et al.**, **2004m:65114**

Gulin, Alekseĭ Vladimirovich (*with* Morozova, V. A.) A nonlocal finite-difference boundary-value problem. (English summary)

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Gülle, Aytekin (*with* Amiraliyev, Gabil M.) Difference scheme for wave equation with strong dissipative term. (English summary)

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Gumel, A. B. *see* **Chen, Zhen et al.**, **2004c:65087**

Gunzburger, Max D. *see* **Ju, Lili et al.**, **2004k:65140**

Guo, Cui (*with* Zhang, Fa Yong) Long-time behavior of a general two-level difference scheme for one-dimensional heat conduction equations. (Chinese. English and Chinese summaries)

Gustavsson, Katarina (*with* Sjögreen, Björn) Numerical study of a viscous consolidation model. (*see* **2004j:00016**)

Halim, A. A. (*with* Kshevetskiĭ, S. P.; Leble, Sergei B.) Numerical integration of a coupled Korteweg-de Vries system. (English summary) **2004a:65104**

Han, Hou-de (*with* Yin, Dongsheng) A non-overlap domain decomposition method for the forward-backward heat equation. (English summary)

— (*with* Wu, Xiaonan) A fast numerical method for the Black-Scholes equation of American options. (English summary) **2004k:65136**

Hanada, Takao (*with* Ishimura, Naoyuki; Nakamura, Masaaki) Stable finite difference scheme for a model equation of phase separation. (English summary) **2004m:65121**

Handlovičová, Angela (*with* Mikula, Karol; Sgallari, Fiorella) Semi-implicit complementary volume scheme for solving level set like equations in image processing and curve evolution. (English summary) **2004b:65117**

Hänel, Dieter *see* **Lantermann, Udo et al.**, (**2004e:65004**)

Hanss, Grégoire *see* **Lerat, Alain et al.**, (**2004d:76003**)

Hayryan, Edik A. *see* **Pavluš, Miron**, (**2004j:00014**)

Helf, Clemens The use of approximate solutions for limiting with first order hyperbolic conservation laws. (English summary) (*see* **2004e:65004**)

Helluy, Philippe *see* **Barberon, Thomas**, (**2004e:65004**)

Helzel, Christiane *see* **Berger, Marsha J. et al.**, **2004g:65103** *and* (**2004e:65004**)

Hemker, P. W. (*with* Shishkin, Grigorii I.; Shishkina, L. P.) High-order time-accurate schemes for parabolic singular perturbation convection-diffusion problems with Robin boundary conditions. (English summary) **2004j:65117**

Hérard, Jean-Marc *see* **Gallouët, Thierry et al.**, **2004j:65116**; (**2004e:65004**) *and* (**2004e:65004**)

Herbin, Raphaèle (*with* Ohlberger, Mario) A posteriori error estimate for finite volume approximations of convection diffusion problems. (English summary) (*see* **2004e:65004**)

— *see also* **Eymard, Robert**

Hietel, Dietmar (*with* Keck, Rainer) Consistency by coefficient-correction in the finite-volume-particle method. (English summary) (*see* **2004d:65005**)

Hillen, Berend *see* **Loots, Erwin et al.**, (**2004e:65004**)

Hittinger, Jeffrey A. F. (*with* Roe, Philip L.) On uniformly accurate upwinding for hyperbolic systems with relaxation. (English summary) (*see* **2004k:65005**)

Holstad, Astrid (*with* Lie, Ivar) Analysis of a finite volume scheme for reactive fluid flow problems. (English summary) (*see* **2004k:65005**)

Hong, Jialin (*with* Liu, Ying) A novel numerical approach to simulating nonlinear Schrödinger equations with varying coefficients. (English summary) **2004c:65090**

Hoogstraten, Hendrik *see* **Loots, Erwin et al.**, (**2004e:65004**)

Hou, LiSheng *see* **Ju, Lili et al.**, **2004k:65140**

Huang, Yun Qing *see* **Tan, Zhi-jun**

Huddleston, D. *see* **Rivera-Gallego, Wilson et al.**

Hwang, Yao-Hsin Upwind scheme for non-hyperbolic systems. (English summary) **2004k:65137**

Ide, Takanori Error estimates for the implicit finite difference scheme for the Fujita problem by means of the discrete variational method. (English summary) **2004d:65091**

Ikehata, A. *see* **Yabe, Takashi et al.**, **2004j:65130**

Ikhlaq, Chohan Muhammad (*with* Mori, Kunihiko; Nakashima, Masaharu) Some explicit stable difference schemes for the variable coefficients two dimensional parabolic differential equations. (English summary) **2004k:65138**

Ilan, Boaz *see* **Fibich, Gadi**, **2004a:65102**

Ilgevičus, A. *see* **Liess, H.-D.**

Ion, Stelian A numerical method for Richards' equation. (English summary)

Ionkin, N. I. *see* **Gulin, Alekseĭ Vladimirovich et al.**

Ishimura, Naoyuki *see* **Hanada, Takao et al.**, **2004m:65121**

Ismail, Hassan N. A. (*with* Salem, Ghada S. E.; Elbarbary, Elsayed M. E. M.) Restrictive Taylor's approximation for solving singularly perturbed parabolic PDE. (English summary)

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Ismail, M. S. (*with* Bratsos, A. G.) A predictor-corrector scheme for the numerical solution of the Boussinesq equation. (English summary) **2004m:65122**

Israeli, Moshe *see* **Barash, Danny et al.**, **2004i:65073**

Ivankovic, A. *see* **Maneeratana, K.**, (**2004k:65005**)

Jäger, Willi (*with* Wittum, Gabriel; Schäfer, Wolfgang; Wagner, Christian[2]; Willershausen, Harald) Modelling and simulation of a planned bio-chemical in situ remediation. (English summary) (*see* **2004d:00011**)

Jain, Mahinder Kumar *see* **Mohanty, R. K. et al.**, **2004c:65094**

Jaruszewska-Walczak, D. (*with* Kamont, Zdzisław) Difference methods for quasilinear hyperbolic differential functional systems on the Haar pyramid. (English summary) **2004h:65079**

Ji, Zhong Zhen *see* **Wang, Bin[1]**

Jiang, Chang Jin Multi-symplectic algorithm and simulation of solitons for the (2 + 1)-dimensional sine-Gordon equation. (Chinese. English and Chinese summaries) **2004e:65095**

Jiang, Li[2] (*with* Liu, Chaoqun) Applications of weighted compact scheme to curvilinear system. (English summary) (*see* **2004j:65007**)

Jiang, Li-shang *see* **Xu, Cheng-Long et al.**, **2004d:65098**

Jin, Cheng Ri An alternating group explicit iteration method for a dispersive equation. (Chinese. English and Chinese summaries) **2004a:65105**

— (*with* Liu, Ming Zhu) Subdomain precise integration AGEI method for convection-diffusion equation. (Chinese. English summary) **2004b:65118**

Jin, Shi *see* **Bao, Weizhu**, **2004c:65084** *and* **Bouchut, François et al.**, **2004d:65086**

Jódar, Lucas *see* **Camacho, Javier et al.**, **2004j:65111**

Johnston, Hans *see* **Liu, Jian-Guo[1] et al.**, **2004k:65141**

Joly, Patrick Variational methods for time-dependent wave propagation problems. **2004k:65139**

Jordan, P. M. A nonstandard finite difference scheme for nonlinear heat transfer in a thin finite rod. (English summary) **2004i:65079**

Jorge, J. C. *see* **Clavero Gracia, Carmelo et al.**, **2004d:65088**

Jovanović, Boško S. (*with* Shcheglik, V. S.) On the convergence of a difference scheme for a two-dimensional quasilinear heat equation with generalized solutions. (Russian. English and Russian summaries) **2004f:65117**

— On the rate of convergence of a multicomponent difference scheme for the heat equation. (Russian. Russian summary) **2004j:65118**

— (*with* Volkov, Lyuben G.) On the rate of convergence of difference schemes for the Poisson equation with dynamic interface conditions. (English summary) **2004i:65081**

— (*with* Volkov, Lyuben G.) On the convergence of difference schemes for hyperbolic problems with concentrated data. (English summary) **2004i:65080**

Ju, Lili (*with* Gunzburger, Max D.; Hou, LiSheng) Approximation of exact boundary controllability problems for the 1-D wave equation by optimization-based methods. (English summary) **2004k:65140**

Jüngel, Ansgar *see* **Carrillo, José-Antonio et al.**, **2004e:65091** *and* **Düring, Bertram et al.**, **2004j:65114**

Junk, Michael Do finite volume methods need a mesh? (English summary) **2004g:65108**

— *see also* **Banda, Mapundi K. et al.**, **2004d:65085**

Kaiser, Rainer *see* **Lantermann, Udo et al.**, (**2004e:65004**)

Kamm, James R. *see* **Rider, William J. et al.**, (**2004j:00016**)

Kamont, Zdzisław *see* **Jaruszewska-Walczak, D.**, **2004h:65079** *and* **Baranowska, Anna**, **2004m:65116**

Kandilarov, Yu. D. Immersed interface method for a reaction-diffusion equation with a moving own concentrated source. (English summary) (*see* **2004j:65007**)

Karabasov, S. A. *see* **Goloviznin, V. M. et al.**, **2004k:65135**

Karamzin, Yu. N. (*with* Polyakov, S. V.; Popov, I. V.) Difference schemes for parabolic equations on triangular grids. (Russian) **2004f:65118**

— (*with* Popov, I. V.; Polyakov, S. V.) Difference methods in problems of continuum mechanics on triangular and tetrahedral grids. (Russian. English and Russian summaries)

— *see also* **Popov, I. V. et al.**, (**2004j:65007**)

Karatay, I. *see* **Ashyralyev, Allaberen**, **2004m:65115**

Karlsen, Kenneth Hvistendahl (*with* Klingenberg, Christian; Risebro, Nils Henrik) Relaxation schemes for conservation laws with discontinuous coefficients. (English summary) (*see* **2004j:00016**)

Katsaounis, Theodoros (*with* Makridakis, Charalambos) Relaxation models and finite element schemes for the shallow water equations. (*see* **2004j:00016**)

— (*with* Perthame, Benoît; Simeoni, Chiara) Upwinding sources at interfaces in conservation laws. (English summary)

Keck, Rainer *see* **Hietel, Dietmar**, (**2004d:65005**)

Kemm, Friedemann (*with* Lee, Yong-Joong; Munz, Claus-Dieter; Schneider, Rudolf[2]) Divergence cleaning in finite-volume computations for electromagnetic wave propagations. (English summary) (*see* **2004e:65004**)

van Keuk, J. (*with* Ballmann, J.) Two-dimensional Riemann problems. Assessment tests for upwind methods for multi-dimensional supersonic flow problems. (English summary) (*see* **2004k:65005**)

Khalifa, Ahmed K. (*with* Farea, Hussain A.) A stable finite difference technique for nerve conduction equations. (English summary) **2004c:65091**

Khebchareon, Morrakot *see* **Fairweather, Graeme**, **2004a:65101**

Kim, Seongjai *see* **Douglas, Jim, Jr. et al.**, (**2004h:65005**)

Kimmel, Ron *see* **Barash, Danny et al.**, **2004i:65073**

Kitson, Adrian (*with* McLachlan, Robert I.; Robidoux, Nicolas) Skew-adjoint finite difference methods on nonuniform grids. (English summary) **2004m:65123**

Klar, Axel *see* **Banda, Mapundi K. et al.**, **2004d:65085**

Klingenberg, Christian *see* **Karlsen, Kenneth Hvistendahl et al.**, (**2004j:00016**)

Kobrinskiĭ, I. M. *see* **Goloviznin, V. M. et al.**, **2004k:65135**

Kojouharov, Hristo V. *see* **Chen-Charpentier, Benito M.**, **2004k:65131**

Kole, J. Sebastiaan (*with* Figge, Marc Thilo; De Raedt, Hans) New unconditionally stable algorithms to solve the time-dependent Maxwell equations. (English summary) (*see* **2004j:00012**)

Kopotun, Kirill (*with* Neamtu, Marian; Popov, Boyan) Weakly nonoscillatory schemes for scalar conservation laws. (English summary) **2004f:65119**

Koschdon, Karl (*with* Schäfer, Michael) A Godunov-type scheme with moving grids for simulating the dynamics of granular avalanches. (English summary) (*see* **2004e:65004**)

Kovács, Mihály *see* **Faragó, István**, **2004b:65114**

Kreiss, Heinz-Otto (*with* Petersson, N. Anders; Ystrom, Jacob) Difference approximations for the second order wave equation. (English summary) **2004c:65092**

Kröner, Dietmar *see* **Dedner, Andreas et al.**, (**2004d:00025**)

Kshevetskii, S. P. *see* **Halim, A. A. et al.**, **2004a:65104**

Kuhnert, Jörg An upwind finite pointset method (FPM) for compressible Euler and Navier-Stokes equations. (English summary) (*see* **2004d:65005**)

Kumar, Dinesh[2] *see* **Mohanty, R. K. et al.**, **2004c:65094**

Kurganov, Alexander Central-upwind schemes for balance laws. Application to the Broadwell model. (English summary) (*see* **2004e:65004**)

Küther, Marc (*with* Ohlberger, Mario) Adaptive second order central schemes on unstructured staggered grids. (English summary) (*see* **2004j:00016**)

Kutluay, S. (*with* Wood, A. S.) Numerical solutions of the thermistor problem with a ramp electrical conductivity. (English summary) **2004i:65082**

— *see also* **Esen, A.**

Kwan, Y. Y. *see* **Caldwell, James**

Kwon, Jang Hyuk *see* **Park, Soo Hyung**, **2004d:65092**

Lagoutière, Frédéric A non-dissipative entropic scheme for convex scalar equations via discontinuous cell-reconstruction. (English and French summaries)

Laitinen, Erkki J. (*with* Lapin, A. V.; Pieskä, J.) Asynchronous domain decomposition methods for continuous casting problem. (English summary) **2004f:65120**

de Lange, H. C. Split time-integration for low Mach number compressible flows. (English summary)

Lantermann, Udo (*with* Hänel, Dieter; Kaiser, Rainer) Finite volume-based lattice Boltzmann method for general grids. (English summary) (*see* **2004e:65004**)

Lapin, A. V. *see* **Laitinen, Erkki J. et al.**, **2004f:65120** *and* **Glowinski, Roland et al.**, **2004i:65078**

Lapin, S. A. *see* **Glowinski, Roland et al.**, **2004i:65078**

Latché, Jean-Claude *see* **Coré, Xavier et al.**, (**2004e:65004**)

Lau Man Wai, J. *see* **Soares Frazao, S. et al.**, (**2004k:65005**)

Laurençot, Philippe *see* **Filbet, Francis**, **2004g:65106**

Lax, Peter D. *see* **Liu, Xu-Dong**, **2004e:65097**

Leble, Sergei B. *see* **Halim, A. A. et al.**, **2004a:65104**

Le Coq, Gérard *see* **Alouges, François et al.**, (**2004e:65004**)

Lee, Jongwoo (*with* Fornberg, Bengt) A split step approach for the 3-D Maxwell's equations. (English summary) **2004f:65121**

Lee, Yong-Joong *see* **Kemm, Friedemann et al.**, (**2004e:65004**)

Lee, Zong-Yi Hybrid numerical method applied to 3-D multilayers hollow cylinder with time-dependent boundary conditions. (English summary)

Lenz, Martin *see* **Grün, Günther et al.**, (**2004e:65004**)

Lerat, Alain (*with* Corre, Christophe; Hanss, Grégoire) Residual-based compactness versus directionality for high-order compressible flow calculations. (English summary) (*see* **2004d:76003**)

LeVeque, Randall J. (*with* Mitran, Sorin) Wave-propagation methods and software for complex applications. (English summary) **2004h:65080**

— *see also* **Bale, Derek S. et al.**, **2004a:65098** *and* **Berger, Marsha J. et al.**, **2004g:65103**

Levy, Doron *see* **Bryson, Steve**, **2004d:65087** *and* (**2004j:00016**)

Li, Da Ming[2] Convergence of finite volume method for a scalar conservation law with nonlinear source in two dimensions. (Chinese. English and Chinese summaries) **2004f:65122**

Li, Gong Chun *see* **Xie, Shu Sen et al.**

Li, Nian[2] (*with* Steiner, Joseph M.) Finite difference schemes for n-dimensional reaction-diffusion equation. (English summary) **2004i:65083**

Li, Shan *see* **Li, Sheng Kun et al.**

Li, Sheng Kun (*with* Feng, Min Fu; Li, Shan) Finite difference approximate solutions for the Benjamin-Bona-Mahony equation. (Chinese. English and Chinese summaries)

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Li, Xiantao *see* **Bouchut, François et al.**, **2004d:65086**

Li, Xiao Min[2] A priori and a posteriori error estimates of Crank-Nicolson-FDSD methods for a time-dependent convection-dominated problem. (Chinese. English and Chinese summaries) **2004f:65123**

Li, Zhilin (*with* Wang, Cheng[4]) A fast finite difference method for solving Navier-Stokes equations on irregular domains. (English summary) **2004c:65093**

— *see also* **Adams, Loyce**, **2004f:65109**

Liang, Dong Upwinding finite covolume methods for unsteady convection-diffusion problems. (English summary) (*see* **2004h:65005**)

Liao, Wenyuan *see* **Gu, Yuanxian et al.**, **2004f:65116**

Lie, Ivar *see* **Holstad, Astrid**, (**2004k:65005**)

Lie, Knut-Andreas (*with* Noelle, Sebastian; Rosenbaum, Wolfram) On the resolution and stability of central difference schemes. (English summary) (*see* **2004e:65004**)

— (*with* Noelle, Sebastian) On the artificial compression method for second-order nonoscillatory central difference schemes for systems of conservation laws. (English summary) **2004b:65119**

Liess, H.-D. (*with* Ilgevičus, A.) Analytical versus numerical calculations of physical problems. The benefits of its combination. (English and Lithuanian summaries)

Lim, Hyeona *see* **Douglas, Jim, Jr. et al.**, (**2004h:65005**)

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Lin, Chi-Tien New high-resolution central-upwind schemes for nonlinear hyperbolic conservation laws. (English summary) (*see* **2004j:00016**)

Lin, Yan-ping *see* **Allegretto, Walter et al.**, **2004f:65111**

Lipavskiĭ, M. V. (*with* Tolstykh, Andrei I.) Multi-operator compact schemes of the fifth and seventh orders. (Russian. Russian summary) **2004j:65119**

Lisbona, Francisco J. *see* **Clavero Gracia, Carmelo et al.**, **2004d:65088** *and* **Gaspar, Francisco J. et al.**, (**2004j:65007**)

Liu, Chaoqun *see* **Jiang, Li[2]**, (**2004j:65007**)

Liu, Fen *see* **Zhang, Lu Ming**, **2004d:65100**

Liu, Hailiang The l^1 global decay to discrete shocks for scalar monotone schemes. (English summary) **2004e:65096**

Liu, Ji Jun The 3-layered explicit difference scheme for 2-D heat equation. (Chinese. English and Chinese summaries) **2004g:65109**

Liu, Jian-Guo[1] (*with* Wang, Cheng[4]; Johnston, Hans) A fourth order scheme for incompressible Boussinesq equations. (English summary) **2004k:65141**

— (*with* Wang, Cheng[4]) High order finite difference methods for unsteady incompressible flows in multi-connected domains. (English summary) **2004k:65142**

— *see also* **Chainais-Hillairet, Claire et al.**, **2004e:65093**; **Wang, Cheng[4]**, **2004e:65101** *and* **Duraisamy, Karthikeyan et al.**

Liu, Ming Zhu *see* **Jin, Cheng Ri**, **2004b:65118**

Liu, Xiang Nian (*with* Mao, De Kang) A second-order essentially entropy-dissipating scheme for scalar conservation law in one space dimension. (Chinese. English and Chinese summaries)

Liu, Xiao Yan *see* **Pérez-Garcia, Víctor M.**, **2004f:65125**

Liu, Xiao Yu[1] *see* **Du, Zheng Ping et al.**

Liu, Xu-Dong (*with* Lax, Peter D.) Positive schemes for solving multi-dimensional hyperbolic systems of conservation laws. II. (English summary) **2004e:65097**

Liu, Ying *see* **Hong, Jialin**, **2004c:65090**

Liu, Yun Xian Backward time difference collocation method and error analysis for the semiconductor problem. (English summary) **2004m:65124**

Llor, A. *see* **Cournède, P.-H. et al.**, (**2004e:65004**)

Loginova, M. M. (*with* Trofimov, V. A.) Comparison of some difference schemes for a problem of femtosecond pulse action in a semiconductor. (Russian. Russian summary)

Lohrengel, Stephanie (*with* Remaki, Malika) A FV scheme for Maxwell's equations. (English summary) (*see* **2004e:65004**)

Lombard, Bruno (*with* Piraux, Joël) Interface method and finite volumes: two-dimensional acoustic example. (English summary) (*see* **2004e:65004**)

— (*with* Piraux, Joël) How to incorporate the spring-mass conditions in finite-difference schemes. (English summary) **2004a:65106**

— (*with* Piraux, Joël) Numerical treatment of two-dimensional interfaces for acoustic and elastic waves. (English summary) **2004m:65125**

Loots, Erwin (*with* Hillen, Berend; Hoogstraten, Hendrik; Veldman, Arthur E. P.) Fluid-structure interaction in the basilar artery. (English summary) (*see* **2004e:65004**)

Lorin, Emmanuel *see* **Alouges, François et al.**, (**2004e:65004**)

Lötstedt, Per *see* **Ferm, Lars**, **2004m:65120**

Lü, Gui Xia (*with* Ma, Fu Ming) A parallel difference scheme for a parabolic equation. (Chinese. English and Chinese summaries) **2004i:65084**

Lu, Jin Fu *see* **Du, Zheng Ping et al.**

Lubuma, Jean M.-S. *see* **Angelov, Rumen Angelov et al.**, **2004k:65127**

Lukáčová-Medviďová, Mária (*with* Morton, K. W.; Warnecke, Gerald G.) Finite volume evolution Galerkin methods for multidimensional hyperbolic problems. (English summary) (*see* **2004k:65005**)

— Multidimensional bicharacteristic finite volume methods for the shallow water equations. (English summary) (*see* **2004e:65004**)

Lyashko, Ī. Ī. (*with* Grishchenko, O. Yu.; Sklepoviĭ, V. M.; Onots′kiĭ, V. V.) An efficient numerical algorithm for a class of nonlinear boundary value problems. (Ukrainian. English summary)

Ma, Fu Ming *see* **Lü, Gui Xia**, **2004i:65084**

Ma, Ming Shu *see* **Wang, Tong Ke et al.**, **2004g:65112**

Ma, Xiuling (*with* Shu, Shi; Zhou, Aihui) Symmetric finite volume discretizations for parabolic problems. (English summary) **2004i:65085**

Macías Sánchez, Jorge *see* **Castro-Díaz, Manuel Jesús et al.**, (**2004e:65004**)

Magin, Thierry (*with* Vanden Abeele, David; Degrez, Gérard; Baumgart, Johannes) Parallel implicit multiblock computations of inductive plasma flows. (English summary) (*see* **2004e:65004**)

Mahudu, Simon K. *see* **Angelov, Rumen Angelov et al.**, **2004k:65127**

Makarov, Vladimir L. (*with* Demkīv, L. Ī.) Estimates for the accuracy of difference schemes for parabolic equations taking the initial-boundary effect into account. (Ukrainian. English summary) **2004m:65126**
Makhanov, Stanislav S. (*with* Semenov, Andrei Yu.) Six numerical schemes for parabolic initial boundary value problems with a priori bounded solution. (English summary) **2004i:65086**
Makridakis, Charalambos (*with* Perthame, Benoît) Sharp CFL, discrete kinetic formulation, and entropic schemes for scalar conservation laws. (English summary) **2004h:65081**
— *see also* **Katsaounis, Theodoros**, (**2004j:00016**)
Maneeratana, K. (*with* Ivankovic, A.) Finite volume method for large deformation with linear hypoelastic materials. (English summary) (*see* **2004k:65005**)
Manzini, Gianmarco *see* **Bertolazzi, Enrico**, (**2004e:65004**)
Mao, De Kang *see* **Liu, Xiang Nian**
Margolin, Len G. *see* **Rider, William J. et al.**, (**2004j:00016**)
Marinov, Tchavdar T. *see* **Marinova, Rossitza S. et al.**
Marinova, Rossitza S. (*with* Takahashi, Tadayasu; Aiso, Hideaki; Christov, Christo I.; Marinov, Tchavdar T.) Conservation properties of vectorial operator splitting. (English summary)
Markowich, Peter A. (*with* Pietra, Paola; Pohl, Carsten; Stimming, Hans Peter) A Wigner-measure analysis of the Dufort-Frankel scheme for the Schrödinger equation. (English summary) **2004b:65120**
Marmignon, Claude *see* **Coquel, Frédéric**, (**2004k:65005**)
Maronnier, Vincent *see* **Caboussat, Alexandre et al.**
Marquina, Antonio (*with* Serna, Susana) Afternotes on PHM: harmonic ENO methods. (English summary) (*see* **2004j:00016**)
— *see also* **Serna, Susana**, **2004j:65124**
Massot, Marc *see* **Descombes, Stéphane et al.**, (**2004e:00013**)
Mathew, T. P. (*with* Russo, Giovanni) Maximum norm stability of difference schemes for parabolic equations on overset nonmatching space-time grids. (English summary) **2004a:65107**
Matsuoka, Kazuo (*with* Tomoeda, Kenji) Numerical computations to pulse splitting phenomena in the thermal waves through an absorbing medium. (English summary) **2004f:65124**
Mattsson, Ken (*with* Svärd, Magnus; Nordström, Jan) Stable and accurate artificial dissipation. (English summary)
Matus, Petr P. Stability of difference schemes for nonlinear time-dependent problems. (English summary) **2004h:65082**
Mazzia, Annamaria (*with* Putti, Mario) Extension of second order Godunov mixed methods from triangles to tetrahedra. (English summary) (*see* **2004e:65004**)
McElwain, D. L. S. *see* **Shi, Jingyu et al.**, (**2004h:65005**)
McLachlan, Robert I. Spatial discretization of partial differential equations with integrals. (English summary) **2004h:65083**
— *see also* **Kitson, Adrian et al.**, **2004m:65123**
Méchitoua, N. (*with* Boucker, M.; Mimouni, S.; Pigny, S.; Serre, G.) Numerical simulation of multiphase flow with an elliptic oriented fractional step method. (English summary) (*see* **2004e:65004**)
Meinke, M. (*with* Rister, Th.; Ewert, Roland) A comparison of finite volume and high-order finite difference schemes for the solution of the Navier-Stokes and Euler equations. (English summary) (*see* **2004k:65005**)
Meister, Andreas[2] *see* **Grahs, Thorsten et al.**, (**2004k:65005**)
Meladze, Gamlet *see* **Criado, Francisco et al.**, **2004c:65088**
Merriman, Barry Understanding the Shu-Osher conservative finite difference form. (English summary)
Michel, Anthony Convergence of a finite volume scheme for a nonlinear convection-diffusion problem. (English summary) (*see* **2004k:65005**)
— A mathematical comparison of two finite volume methods for two phase flow in porous media. (English summary) (*see* **2004e:65004**)
Michelson, Daniel Stability of discrete shocks for difference approximations to systems of conservation laws. (English summary) **2004b:65121**
Mickens, Ronald E. A nonstandard finite difference scheme for a Fisher PDE having nonlinear diffusion. (English summary)
— Exact solutions to a finite-difference model of a nonlinear reaction-advection equation: implications for numerical analysis. (English summary) **2004j:65120**
— A nonstandard finite difference scheme for the diffusionless Burgers equation with logistic reaction. (English summary) **2004e:65098**
— *see also* **Chen, Zhen et al.**, **2004c:65087**
Mikula, Karol (*with* Sgallari, Fiorella) Semi-implicit finite volume scheme for image processing in 3D cylindrical geometry. (English summary) **2004j:65121**
— *see also* **Handlovičová, Angela et al.**, **2004b:65117**
Miller, Greg An iterative Riemann solver for systems of hyperbolic conservation laws, with application to hyperelastic solid mechanics. (English summary) **2004j:65122**
Mimouni, S. *see* **Méchitoua, N. et al.**, (**2004e:65004**)
Mitran, Sorin *see* **Bale, Derek S. et al.**, **2004a:65098** *and* **LeVeque, Randall J.**, **2004h:65080**
Mohanty, R. K. An accurate three spatial grid-point discretization of $O(k^2 + h^4)$ for the numerical solution of one-space dimensional unsteady quasi-linear biharmonic problem of second kind. (English summary) **2004a:65108**
— (*with* Evans, David John[1]) The numerical solution of fourth order mildly quasi-linear parabolic initial boundary value problem of second kind. (English summary)
— (*with* Kumar, Dinesh[2]; Jain, Mahinder Kumar) Single-cell discretization of $O(kh^2 + h^4)$ for $\partial u/\partial n$ for three-space dimensional mildly quasi-linear parabolic equation. (English summary) **2004c:65094**
— An operator splitting method for an unconditionally stable difference scheme for a linear hyperbolic equation with variable coefficients in two space dimensions. (English summary)
— An unconditionally stable difference scheme for the one-space-dimensional linear hyperbolic equation. (English summary) **2004m:65127**
Mophou, Gisèle (*with* Poullet, Pascal) A split Godunov scheme for solving one-dimensional hyperbolic systems in a nonconservative form. (English summary) **2004a:65109**
Mori, Kunihiko *see* **Ikhlaq, Chohan Muhammad et al.**, **2004k:65138**
Morozova, V. A. *see* **Gulin, Alekseĭ Vladimirovich et al.**
Morton, K. W. *see* **Lukáčová-Medviďová, Mária et al.**, (**2004k:65005**) *and* **Roe, Philip L.**, (**2004k:65005**)
Morvan, Dominique Wildfire propagation modeling using a high order finite volume method. (English summary) (*see* **2004e:65004**)
Müller, Siegfried Adaptive multiresolution schemes. (English summary) **2004h:65084**
Munz, Claus-Dieter *see* **Kemm, Friedemann et al.**, (**2004e:65004**)
Murashkina, K. B. (*with* Paskonov, V. M.) Numerical analysis of the boundary-value problem for a nonlinear Korteweg-de Vries-Burgers equation. (English summary)
Murillo, Maria (*with* Cai, Xiao-Chuan) Parallel Newton-Krylov-Schwarz method for solving the anisotropic bidomain equations from the excitation of the heart model. (English summary) (*see* **2004j:00012**)
Naidoo, R. (*with* Baboolal, S.) Adaptation and assessment of a high resolution semi-discrete numerical scheme for hyperbolic systems with source terms and stiffness. (English summary) (*see* **2004j:00013**)
Nakamura, Masaaki *see* **Hanada, Takao et al.**, **2004m:65121**
Nakashima, Masaharu Unconditionally stable explicit difference schemes for the variable coefficients parabolic differential equation. III. (English summary) **2004k:65143**
— Unconditionally stable explicit difference schemes for the variable coefficients parabolic differential equation. IV. (English summary) (*see* **2004j:65007**)
— *see also* **Ikhlaq, Chohan Muhammad et al.**, **2004k:65138**
Naldi, Giovanni (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Relaxation schemes for partial differential equations and applications to degenerate diffusion problems. (English summary) **2004i:65087**
— *see also* **Comincioli, V. et al.**, (**2004h:65007**)
Nashun, Bu He (*with* Su, Zhi Xun) Block implicit scheme and parallel algorithm for a class of two-dimensional nonlinear evolution equations. (Chinese. English and Chinese summaries)
— (*with* Zhixun, Su) An alternating group method of parallel computing for the heat equations. (English summary)
Nassar, Raja *see* **Dai, Wei-zhong et al.**, **2004j:65113**
Nataf, Frédéric *see* **Faille, Isabelle et al.**, (**2004e:65004**)
Neamtu, Marian *see* **Kopotun, Kirill et al.**, **2004f:65119**
Neta, Beny *see* **Givoli, Dan**, **2004b:65115** *and* **2004b:65116**
Nie, Cun Yun (*with* Shu, Shi) A symmetric finite-volume scheme for two-dimensional three-temperature heat conduction equations. (Chinese. English and Chinese summaries)
Niu, Xiaoling *see* **Shen, Meng Yu et al.**, **2004k:65146**
Nkonga, Boniface *see* **Berthon, Christophe**, (**2004e:65004**)
Noelle, Sebastian The MoT-ICE: a new high-resolution wave-propagation algorithm based on Fey's method of transport. (English summary) (*see* **2004k:65005**)
— *see also* **Lie, Knut-Andreas et al.**, **2004b:65119** *and* (**2004e:65004**)
Nordström, Jan *see* **Mattsson, Ken et al.**
Ohlberger, Mario *see* **Herbin, Raphaèle**, (**2004e:65004**) *and* **Kūther, Marc**, (**2004j:00016**)
de Oliveira, Paula *see* **Araújo, A. L. et al.**
Ollivier-Gooch, Carl A toolkit for numerical simulation of PDEs. I. Fundamentals of generic finite-volume simulation. (English summary) **2004b:65122**
Omrani, K. A second-order splitting method for a finite difference scheme for the Sivashinsky equation. (English summary) **2004b:65123**
Onots'kiĭ, V. V. *see* **Lyashko, Ī. Ī. et al.**
Paasonen, V. I. Compact difference schemes for inhomogeneous boundary value problems. (English summary) **2004k:65144**
Pan, Lu *see* **Feng, Min Fu et al.**, **2004j:65115**
Pan, Zhu Shan (*with* Sun, Zhi Zhong) A second order difference scheme for a basic semiconductor equation with heat conduction. (Chinese. English summary) **2004g:65110**
Parés, Carlos *see* **Castro-Díaz, Manuel Jesús et al.**, (**2004e:65004**)
Pareschi, Lorenzo (*with* Russo, Giovanni) High order asymptotically strong-stability-preserving methods for hyperbolic systems with stiff relaxation. (English summary) (*see* **2004j:00016**)
— *see also* **Naldi, Giovanni et al.**, **2004i:65087**
Park, Soo Hyung (*with* Kwon, Jang Hyuk) On the dissipation mechanism of Godunov-type schemes. (English summary) **2004d:65092**
Parrott, Kevin *see* **Dinčov, Duško et al.**, (**2004e:65004**)
Pascal, Frédéric FV method with characteristic flux: influence of the geometrical aspect of control volumes. (English summary) (*see* **2004e:65004**)
— *see also* **Ghidaglia, Jean-Michel**, (**2004e:65004**)
Paskonov, V. M. *see* **Murashkina, K. B.**
Patel, Mayur K. *see* **Christakis, Nicholas et al.**, (**2004e:65004**)
Patrício, F. *see* **Araújo, A. L. et al.**
Pauchon, Christian *see* **Tran, Quang Huy et al.**, (**2004e:65004**)
Pavluš, Miron (*with* Hayryan, Edik A.) Parallel realization of difference schemes of filtration problem in a multilayer system. (English summary) (*see* **2004j:00014**)
Pégaz-Fiornet, Sylvie *see* **Faille, Isabelle et al.**, (**2004e:65004**)
Pelanti, Marica Pressure linearization method for the computation of real fluids. (English summary) (*see* **2004j:00016**)
Peng, Xing *see* **Yang, Hui**
Peng, Yue-Jun *see* **Chainais-Hillairet, Claire et al.**, **2004a:65099**; **2004e:65093** *and* (**2004e:65004**)
Pérez-García, Víctor M. (*with* Liu, Xiao Yan) Numerical methods for the simulation of trapped nonlinear Schrödinger systems. (English summary) **2004f:65125**
Pericleous, Koulis *see* **Dinčov, Duško et al.**, (**2004e:65004**)
Perot, Blair (*with* Zhang, Xing) Reformulation for the unstructured staggered mesh method as a classic finite volume method. (English summary) (*see* **2004k:65005**)
Perthame, Benoît (*with* Simeoni, Chiara) Convergence of the upwind interface source method for hyperbolic conservation laws. (English summary) (*see* **2004j:00016**)
— *see also* **Makridakis, Charalambos**, **2004h:65081** *and* **Katsaounis, Theodoros et al.**
Petersson, N. Anders *see* **Kreiss, Heinz-Otto et al.**, **2004c:65092**
Picasso, Marco *see* **Caboussat, Alexandre et al.**
Pieskä, J. *see* **Laitinen, Erkki J. et al.**, **2004f:65120**
Pietra, Paola *see* **Markowich, Peter A. et al.**, **2004b:65120**
Pigny, S. *see* **Méchitoua, N. et al.**, (**2004e:65004**)

Pinnau, René Numerical approximation of the transient quantum drift diffusion model. (English summary) **2004d:65093**
Piperno, Serge *see* **Canouet, Nicolas et al.**, (**2004e:65004**)
Piraux, Joël *see* **Lombard, Bruno**, **2004a:65106**; **2004m:65125** *and* (**2004e:65004**)
Pironneau, Olivier *see* **Botchorishvili, Ramaz**, **2004c:65086**
Pistella, F. *see* **Cerimele, M. M. et al.**, **2004e:65092**
Pohl, Carsten *see* **Markowich, Peter A. et al.**, **2004b:65120**
Polyakov, S. V. *see* **Karamzin, Yu. N. et al.**, **2004f:65118** *and* **Popov, I. V. et al.**, (**2004j:65007**)
Popov, Aleksandr Vladimirovich *see* **Slugin, D. G.**, **2004h:65086**
Popov, Boyan *see* **Kopotun, Kirill et al.**, **2004f:65119**
Popov, I. V. (*with* Polyakov, S. V.; Karamzin, Yu. N.) High accuracy difference schemes on unstructured triangle grids. (English summary) (*see* **2004j:65007**)
— *see also* **Karamzin, Yu. N. et al.**, **2004f:65118**
Potapov, Sergueĭ V. A mixed FE-FV algorithm in non-linear solid dynamics. (English summary) (*see* **2004k:65005**)
Poullet, Pascal *see* **Mophou, Gisèle**, **2004a:65109**
Praprotnik, Matej (*with* Šterk, Marjan; Trobec, Roman) Inhomogeneous heat-conduction problems solved by a new explicit finite difference scheme. (English summary) **2004m:65128**
Praveen, C. *see* **Balakrishnan, Narayanrao**, (**2004k:65005**)
Pulch, Roland A parallel finite difference method for multirate partial differential algebraic equations. (English summary) (*see* **2004h:00023**)
Purcz, Pavol New parallel algorithm and its speed-up for the explicit difference method. (English summary) **2004e:65099**
Putti, Mario *see* **Mazzia, Annamaria**, (**2004e:65004**)
Qian, Jianliang *see* **Symes, William W.**
Qian, Xiao Song *see* **Xu, Cheng-Long et al.**, **2004d:65098**
Qiu, Jianxian (*with* Shu, Chi-Wang) Finite difference WENO schemes with Lax-Wendroff-type time discretizations. (English summary) **2004f:65126**
— (*with* Shu, Chi-Wang) Hermite WENO schemes and their application as limiters for Runge-Kutta discontinuous Galerkin method: one-dimensional case. (English summary) **2004j:65123**
Rabboh, Aziza A. Abd *see* **Ismail, Hassan N. A.**
Radvogin, Yu. B. Efficient algorithms for the numerical solution of the multidimensional heat equation. (Russian)
Rappaz, Jacques *see* **Caboussat, Alexandre et al.**
Raviart, Pierre-Arnaud *see* **Godlewski, Edwige**, (**2004e:65004**)
Reguera, N. Analysis of a third-order absorbing boundary condition for the Schrödinger equation discretized in space. (English summary)
Reignier, Didier *see* **Berthon, Christophe**, **2004e:65090**
Reksoprodjo, H. S. R. (*with* Agarwal, Ramesh K.) Development of a higher-order accurate kinetic wave/particle flux-splitting algorithm for the Euler equations. (English summary)
Remaki, L. *see* **Cheriet, M.**, **2004h:65075**
Remaki, Malika *see* **Lohrengel, Stephanie**, (**2004e:65004**)
Ren, Zong Xiu *see* **Wang, Tong Ke et al.**, **2004g:65112**
Ribot, Magali *see* **Descombes, Stéphane**, **2004i:65076**
Ricchiuto, Mario (*with* Deconinck, Herman) Multidimensional upwinding and source terms in inhomogeneous conservation laws: the scalar case. (English summary) (*see* **2004e:65004**)
Rider, William J. (*with* Margolin, Len G.; Kamm, James R.) Adaptive time integration for hyperbolic conservation equations. (English summary) (*see* **2004j:00016**)
Ríos, Gustavo A. *see* **Tamagno, José P. et al.**, **2004k:65149**
Risebro, Nils Henrik *see* **Karlsen, Kenneth Hvistendahl et al.**, (**2004j:00016**)
Rister, Th. *see* **Meinke, M. et al.**, (**2004k:65005**)
Rivera-Gallego, Wilson (*with* Zhu, Jian Ping[2]; Huddleston, D.) An efficient parallel algorithm with application to computational fluid dynamics. (English summary)
Roberts, A. J. A holistic finite difference approach models linear dynamics consistently. (English summary) **2004h:65085**
Robidoux, Nicolas *see* **Kitson, Adrian et al.**, **2004m:65123**
Roe, Philip L. (*with* Morton, K. W.) Preserving vorticity in finite-volume schemes. (English summary) (*see* **2004k:65005**)
— *see also* **Hittinger, Jeffrey A. F.**, (**2004k:65005**)
Rogina, Mladen *see* **Limić, Nedžad**, (**2004c:00014**)
Rohde, Christian *see* **Dedner, Andreas et al.**, (**2004e:65004**); (**2004d:00025**) *and* (**2004j:00016**)
Romero, J. V. *see* **Camacho, Javier et al.**, **2004j:65111**
Rosa, P. *see* **Araújo, A. L. et al.**
Rosenbaum, Wolfram *see* **Lie, Knut-Andreas et al.**, (**2004e:65004**)
Rossmanith, James A. A constrained transport method for the shallow water MHD equations. (English summary) (*see* **2004j:00016**)
— *see also* **Bale, Derek S. et al.**, **2004a:65098**
Roussel, Olivier[2] (*with* Schneider, Kai) A fully adaptive multiresolution scheme for 3D reaction-diffusion equations. (English summary) (*see* **2004e:65004**)
Rovarch, Jean-Michel A multidimensional finite volume method with physical variables implicitation. Application to two-phase flows. (English summary) (*see* **2004e:65004**)
Rucker, Sandra Exact finite difference scheme for an advection-reaction equation. (English summary) **2004k:65145**
Rumpf, Martin *see* **Grün, Günther et al.**, (**2004e:65004**) *and* (**2004k:65005**)
Russo, Giovanni Central schemes for balance laws. (English summary) **2004a:65110**
— *see also* **Mathew, T. P.**, **2004a:65107** *and* **Pareschi, Lorenzo**, (**2004j:00016**)
Ruuth, Steven J. *see* **Spiteri, Raymond J.**
Salem, Ghada S. E. *see* **Ismail, Hassan N. A. et al.**
Samarskiĭ, Aleksandr Andreevich (*with* Vabishchevich, Petr N.) Additive schemes for systems of time-dependent equations of mathematical physics. (English summary) (*see* **2004j:65007**)
Samelson, R. M. (*with* Temam, Roger; Wang, Cheng[4]; Wang, Shou Hong) Surface pressure Poisson equation formulation of the primitive equations: numerical schemes. (English summary) **2004g:65111**
Sapiro, Guillermo *see* **Fedkiw, Ronald P. et al.**, **2004c:65089**
Sarrate, Josep *see* **Capella, Antonio**, **2004f:65113**
Scapolla, T. *see* **Comincioli, V. et al.**, (**2004h:65007**)
Schäfer, Michael *see* **Koschdon, Karl**, (**2004e:65004**)
Schäfer, Wolfgang *see* **Jäger, Willi et al.**, (**2004d:00011**)
Scheurer, Bruno *see* **Tran, Quang Huy**, (**2004e:65004**)
Schlick, Tamar *see* **Barash, Danny et al.**, **2004i:65073**
Schneider, Frédéric *see* **Faille, Isabelle et al.**, (**2004e:65004**)
Schneider, Kai *see* **Roussel, Olivier[2]**, (**2004e:65004**)
Schneider, Rudolf[2] *see* **Kemm, Friedemann et al.**, (**2004e:65004**)
Schnitzer, T. *see* **Dedner, Andreas et al.**, (**2004d:00025**)
Schroll, Hans Joachim Relaxed high resolution schemes for hyperbolic conservation laws. (English summary)
— *see also* **Artebrant, Robert**, (**2004j:00016**)
Schumacher, Hans *see* **Berridge, Steffan**, (**2004j:00013**)
Seaïd, Mohammed *see* **Banda, Mapundi K.**, (**2004j:00012**)
Sebastian, Kurt (*with* Shu, Chi-Wang) Multidomain WENO finite difference method with interpolation at subdomain interfaces. (English summary) **2004m:65129**
Seguin, Nicolas (*with* Vovelle, Julien) Analysis and approximation of a scalar conservation law with a flux function with discontinuous coefficients. (English summary) (*see* **2004e:65004**)
— *see also* **Gallouët, Thierry et al.**, **2004j:65116**; (**2004e:65004**) *and* (**2004e:65004**)
Semenov, Andrei Yu. *see* **Makhanov, Stanislav S.**, **2004i:65086**
Serna, Susana (*with* Marquina, Antonio) Power ENO methods: a fifth-order accurate weighted power ENO method. (English summary) **2004j:65124**
— *see also* **Marquina, Antonio**, (**2004j:00016**)
Serre, G. *see* **Méchitoua, N. et al.**, (**2004e:65004**)
Sethian, James A. *see* **Adalsteinsson, David**, **2004i:65072**
Sgallari, Fiorella *see* **Handlovičová, Angela et al.**, **2004b:65117** *and* **Mikula, Karol**, **2004j:65121**
Shcheglik, V. S. *see* **Jovanović, Boško S.**, **2004f:65117**
Shehata, M. *see* **Ismail, I. A. et al.**
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Shu, Shi *see* **Ma, Xiuling et al.**, **2004i:65085** *and* **Nie, Cun Yun**
Simeoni, Chiara *see* **Katsaounis, Theodoros et al.** *and* **Perthame, Benoît**, (**2004j:00016**)
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Sklepovīĭ, V. M. *see* **Lyashko, Ī. Ī. et al.**
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Sridar, D. (*with* Balakrishnan, Narayanrao) An upwind finite difference scheme for meshless solvers. (English summary) **2004d:65094**
Starikovičius, Vadimas *see* **Čiegis, Raimondas**, **2004f:65114**
St-Cyr, A. *see* **Arminjon, P.**, **2004e:65089** *and* (**2004j:00016**)

Steiner, Joseph M. *see* **Li, Nian[2], 2004i:65083**
Šterk, Marjan *see* **Praprotnik, Matej et al., 2004m:65128**
Štikonas, Artūras *see* **Čiegis, Raimondas et al., 2004j:65112**
Štikonienė, Olga *see* **Čiegis, Raimondas et al., 2004j:65112**
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Temam, Roger *see* **Samelson, R. M. et al., 2004g:65111**
Teng, Zhen-Huan Exact boundary condition for time-dependent wave equation based on boundary integral. (English summary) **2004j:65127**
Tolstykh, Andrei I. *see* **Lipavskiĭ, M. V., 2004j:65119**
Tomoeda, Kenji *see* **Matsuoka, Kazuo, 2004f:65124**
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Torrilhon, Manuel *see* **Fey, Michael, (2004j:00016)**
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Turner, Cristina Vilma *see* **Torres, Germán A., 2004c:65096**
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Twizell, E. H. *see* **Cheema, T. A. et al., 2004k:65129** *and* **Willers, J., 2004k:65150**
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Uzelac, Zorica *see* **Surla, Katarina, 2004m:65132**
Vabishchevich, Petr N. *see* **Samarskiĭ, Aleksandr Andreevich, (2004j:65007)** *and* **Gaspar, Francisco J. et al., (2004j:65007)**
Valente, Vanda *see* **Cerimele, M. M. et al., 2004e:65092**
Vanden Abeele, David *see* **Magin, Thierry et al., (2004e:65004)**
Vázquez-Cendón, María Elena *see* **Castro-Díaz, Manuel Jesús et al., (2004e:65004)**
Veldman, Arthur E. P. *see* **Loots, Erwin et al., (2004e:65004)**
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Volkov, Lyuben G. *see* **Jovanović, Boško S., 2004i:65080** *and* **2004i:65081**
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Vovelle, Julien *see* **Seguin, Nicolas, (2004e:65004)**
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Wang, Hong[9] (*with* Zhao, Wei Dong[1]) A modified alternating-direction finite volume method for modeling secondary hydrocarbon migration and accumulation processes. (English summary) **2004a:65114**
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Warnecke, Gerald G. *see* **Lukáčová-Medvidová, Mária et al., (2004k:65005)**
Wendroff, Burton Approximate Riemann solvers, Godunov schemes and contact discontinuities. (English summary) **2004c:65098**
Wesenberg, Matthias *see* **Dedner, Andreas et al., (2004d:00025)** *and* **(2004j:00016)**
White, Amanda *see* **Visher, John et al., 2004j:65128**
Willers, J. (*with* Twizell, E. H.) A finite-difference solution of the Ginzburg-Landau equation. (English summary) **2004k:65150**
Willershausen, Harald *see* **Jäger, Willi et al., (2004d:00011)**
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Witelski, Thomas P. (*with* Bowen, Mark) ADI schemes for higher-order nonlinear diffusion equations. (English summary) **2004c:65099**
Wittum, Gabriel *see* **Jäger, Willi et al., (2004d:00011)**
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Wu, Ji Ming (*with* Fu, Shang Wu; Shen, Long Jun) A difference scheme with high resolution for the numerical solution of a nonlinear diffusion equation. (Chinese. English summary) **2004e:65103**
Wu, Xiaonan *see* **Han, Hou-de, 2004k:65136**
Wu, Zi-Niu Conservation of three-point compact schemes on single and multiblock patched grids for hyperbolic problems. (English summary) **2004d:65097**
— Numerical dissipation for three-point difference schemes to hyperbolic equations with uneven meshes. (English summary) **2004g:65113**
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Xue, Heng *see* **Xie, Shu Sen et al.**
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Yelenina, T. G. *see* **Galanin, M. P.**, **2004i:65077**

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Yuan, Guang Wei (*with* Shen, Long Jun) The unconditional stable difference methods with intrinsic parallelism for two dimensional semilinear parabolic systems. (English summary) **2004c:65100**

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Zhang, Fa Yong *see* **Guo, Cui**

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Zhao, Hong-Kai *see* **Xu, Jian-Jun**, **2004j:65129**

Zhao, Wei Dong[1] *see* **Wang, Hong[9]**, **2004a:65114**

Zhixun, Su *see* **Nashun, Bu He**

Zhou, Aihui *see* **Ma, Xiuling et al.**, **2004i:65085**

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Borthwick, Alistair G. L. *see* **Rogers, Benedict D. et al.**, **2004k:76085**

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Chang, Ching Lung *see* **Shao, Sai Lai, 2004m:91139**

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Chawla, M. M. A new class of linearly implicit generalized trapezoidal formulas for nonlinear differential equations. (English summary) **2004m:65080**

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Darwish, M. G. *see* **Moukalled, F., (2004k:65005)**

Date, A. W. *see* **Caldwell, James, 2004i:80004**

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Delis, A. I. (*with* Katsaounis, Theodoros) Relaxation schemes for the shallow water equations. (English summary) **2004a:76096**

Dellacherie, Stéphane Relaxation schemes for the multicomponent Euler system. (English summary) **2004j:76128**

Del Zanna, L. *see* **Londrillo, P., 2004m:76113**

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E, Weinan *see* **García-Cervera, Carlos J. et al., 2004k:78019**

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Elmer, Christopher E. (*with* Van Vleck, Erik S.) Anisotropy, propagation failure, and wave speedup in traveling waves of discretizations of a Nagumo PDE. (English summary) **2004b:35179**

Ewing, Richard E. *see* **Wang, Hong[9] et al., 2004a:76091**

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Fan, Meng[2] *see* **Steinhoff, John et al., 2004j:76120**

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Fazio, Riccardo (*with* LeVeque, Randall J.) Moving-mesh methods for one-dimensional hyperbolic problems using CLAWPACK. (English summary) **2004e:76082**

Fedotova, Z. I. *see* **Chubarov, L. B., 2004d:76078**

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Fernández Nieto, Enrique D. *see* **Chacón Rebollo, Tomás et al., 2004b:76099** *and* **2004m:76021**

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Gómez Mármol, Macarena *see* **Chacón Rebollo, Tomás et al., 2004b:76099**

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2004k:81130
Goudon, Thierry *see* **Carrillo, José-Antonio, 2004k:35250**
Granjeon, Didier *see* **Eymard, Robert et al., (2004e:65004)**
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Hafez, Mohamed M. *see* **Shatalov, A.**
Halim, A. A. (*with* Kshevetskii, S. P.; Leble, Sergei B.) Approximate solution for Euler equations of stratified water via numerical solution of coupled KdV system. (English summary) **2004j:76015**
Hallo, L. *see* **Abgrall, Rémi et al., 2004j:76104**
Halpern, Laurence (*with* Rahmouni, Adib N.) One-way operators, absorbing boundary conditions and domain decomposition for wave propagation. (English summary) **2004m:65146**
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He, Xiaoyi *see* **Xu, Kun, 2004m:76128**
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Hérard, Jean-Marc *see* **Gallouët, Thierry et al., 2004m:76161**
Herbin, Raphaèle *see* **Eymard, Robert et al., 2004j:76147**
Hillen, T. *see* **Dolak, Y., 2004b:92009; 2004g:92007** *and* **Errata: "Cattaneo models for chemosensitive movement: numerical solution and pattern formation", 2004g:92007**
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Holdych, David J. (*with* Noble, David R.; Georgiadis, John G.; Buckius, Richard O.) Truncation error analysis of lattice Boltzmann methods. (English summary) **2004j:76124**
Horritt, Matthew Development and testing of a simple 2D finite volume model of sub-critical shallow water flow. (English summary)
Hou, LiSheng *see* **Gunzburger, Max D. et al., (2004j:00016)**
Hrissanthou, V. *see* **Bellos, C.**
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Hudson, Justin (*with* Sweby, Peter K.) Formulations for numerically approximating hyperbolic systems governing sediment transport. (English summary) **2004j:76110**
Iben, U. *see* **Meister, Andreas[2] et al., (2004j:00016)**
Il'in, Valeriĭ Pavlovich On exponential finite volume approximations. (English summary) **2004j:65162**
In, A. *see* **Coquel, Frédéric et al., 2004a:76093**
Ismail, Gamal A. F. *see* **Abd-El-Hafiz, Salwa K. et al., 2004m:76106**
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Ito, Kazufumi *see* **Borzi, Alfio et al., 2004a:49045**
Ivanauskas, F. *see* **Baronas, R. et al., 2004a:35115**
Jakobsen, Espen Robstad On the rate of convergence of approximation schemes for Bellman equations associated with optimal stopping time problems. (English summary) **2004g:49054**
Jennings, L. S. *see* **Wang, Song[1] et al., 2004i:49063**
Ji, Zhong Zhen *see* **Zhao, Ying et al., 2004c:86002**
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Jiang, Song *see* **Liu, Quan, 2004d:76028**
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Jin, Shi *see* **Gosse, Laurent et al., 2004k:81130**
Ju, Lili *see* **Gunzburger, Max D. et al., (2004j:00016)**
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Kačur, Jozef (*with* Van Keer, Roger) Contaminant transport with adsorption in dual-well flow. (English summary) **2004m:76156**
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Kamont, Zdzisław *see* **Baranowska, Anna, 2004b:35038**
Kangro, I. *see* **Kalis, Harijs, 2004d:80008**
Karabasov, S. A. *see* **Goloviznin, V. M.**
Karaguler, Turhan *see* **Rasulov, Mahir et al., 2004k:35246**
Karlsen, Kenneth Hvistendahl *see* **Holden, Helge et al., 2004b:35144; Bürger, Raimund et al., 2004m:35175** *and* **(2004j:00016)**
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— *see also* **Delis, A. I., 2004a:76096**
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Khapov, A. P. (*with* Shkhanukov, M. Kh.) The Rothe method for solving the first initial-boundary value problem for a filtration equation in a cracked-porous medium. (Russian. Russian summary)
Khazhoyan, M. G. *see* **Khakimzyanov, G. S., 2004k:76021**
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Kim, Chisup *see* **Trangenstein, John A., 2004m:92013**
Kirby, Robert On the convergence of high resolution methods with multiple time scales for hyperbolic conservation laws. (English summary) **2004c:65104**
Klar, Axel (*with* Pareschi, Lorenzo; Seaïd, Mohammed) Uniformly accurate schemes for relaxation approximations to fluid dynamic equations. (English summary)
Klein, Rupert *see* **Botta, N. et al., 2004m:86005**
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Kole, J. Sebastiaan Solving seismic wave propagation in elastic media using the matrix exponential approach. (English summary) **2004f:86010**
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Korotkiĭ, A. I. *see* **Ismail-zade, A. T. et al., 2004f:65139**
Kozlov, Roman *see* **Dorodnitsyn, Vladimir, 2004c:35211**
Krol, Maarten *see* **Berkvens, P. J. F. et al., 2004b:86016**
Kröner, Dietmar (*with* Küther, Marc; Ohlberger, Mario; Rohde, Christian) A posteriori error estimates and adaptive methods for hyperbolic and convection dominated parabolic conservation laws. (English summary) **2004g:65117**
Kshevetskii, S. P. *see* **Halim, A. A. et al., 2004j:76015**
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Küther, Marc *see* **Kröner, Dietmar et al., 2004g:65117**
Labadie, Suzanne M. *see* **McCartin, Brian J., 2004d:91122**
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Lapenta, Giovanni *see* **Ricci, Paolo et al., 2004c:78035**
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Li, Jinliang *see* **Zhu, You-Lan, 2004c:91061**
Li, Quang *see* **Dai, Wei-zhong et al., 2004k:80015**
Li, Xiantao *see* **Gosse, Laurent et al., 2004k:81130**
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Lorin, Emmanuel (*with* Seignole, V.) Convection systems with stiff source terms. (English summary) **2004f:76095**
Louaked, M. *see* **Hanich, L., 2004i:76150**
Lu, Hua *see* **Bailey, Chris et al., (2004k:65005)**
Lubuma, Jean M.-S. *see* **Angelov, Rumen Angelov**
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Lyons, Stephen L. *see* **Wang, Hong[9] et al., 2004a:76091**
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Ma, Yi Chen *see* **Qin, Xin Qiang, 2004a:65122**
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Mancini, Simona *see* **Buet, Christophe et al., 2004a:82090**
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Marinov, Tchavdar T. *see* **Christov, Christo I. et al., (2004h:00025)**
Marinova, Rossitza S. *see* **Christov, Christo I. et al., (2004h:00025)**
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Masson, Roland *see* **Scheichl, R. et al., 2004j:76154** *and* **Eymard, Robert et al., (2004e:65004)**
Matît, Berlant S. *see* **Abd-El-Hafiz, Salwa K. et al., 2004m:76106**
Matsuda, Yosuke *see* **Hataue, Itaru**
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Mazhorova, O. S. *see* **Kurganov, D. V. et al., 2004f:76039** *and* **El Ganaoui, M. et al., (2004k:65005)**
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McDonough, James *see* **Yang, Tianliang**
McLachlan, Robert I. *see* **Ascher, Uri M.**
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Moiseev, T. E. *see* **Bakirova, M. I. et al., 2004d:76076**
Moraes Ferreira, Ines *see* **Claeyssen, Julio R. et al., 2004j:74053**
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Moukalled, F. (*with* Darwish, M. G.) A finite-volume algorithm for all speed flows. (English summary) (*see* **2004k:65005**)
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Muscato, Orazio *see* **Carrillo, José-Antonio et al., (2004j:82002)**
Naïmark, B. M. *see* **Ismail-zade, A. T. et al., 2004f:65139**
Nakamura, Yoshiaki *see* **Men′shov, Igor, (2004g:76003)**
Nassar, Raja *see* **Dai, Wei-zhong et al., 2004f:65132** *and* **2004k:80015**
Neilsen, David W. *see* **Calabrese, Gioel et al., 2004m:83005**
Neta, Beny *see* **Givoli, Dan, 2004i:76149**
Nguyen Dong Anh *see* **Dang Quang A**
Nikishin, V. V. *see* **Bakirova, M. I. et al., 2004d:76076**
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Noble, David R. *see* **Holdych, David J. et al., 2004j:76124**
Oakley, Jason G. *see* **Wang, Shao-Ping et al.**
Oharu, Shinnosuke *see* **Matsuura, Yoshinori et al.**
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Perthame, Benoît *see* **Coquel, Frédéric et al., 2004a:76093**
Peskin, Charles S. The immersed boundary method. (English summary) **2004h:74029**
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Pontrelli, Giuseppe (*with* Rossoni, Enrico) Numerical modelling of the pressure wave propagation in the arterial flow. (English summary) **2004j:92021**
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Popov, Yu. P. *see* **Kurganov, D. V. et al., 2004f:76039**
Pormann, John B. *see* **Shao, Hai et al., 2004k:92014**
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Price, W. G. *see* **Xing, J. T. et al.**
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Pullin, Jorge *see* **Calabrese, Gioel et al., 2004m:83005**
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Qin, Guan *see* **Wang, Hong[9] et al., 2004a:76091**
Qin, Xin Qiang (*with* Ma, Yi Chen) A kind of modified characteristic-difference schemes for convection-diffusion equations. (Chinese. English and Chinese summaries) **2004a:65122**
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Rahmouni, Adib N. *see* **Halpern, Laurence, 2004m:65146**
Ramos, Fernando M. *see* **Doescher, Erwin et al., 2004k:76109**
Ramos, J. I. Reactive-diffusive phenomena in two-dimensional, anisotropic media. (English summary)
Rascle, P. *see* **Coquel, Frédéric et al., 2004a:76093**
Raspo, Isabelle (*with* El Ganaoui, M.) Computations of instabilities in complex fluid mechanic problems using efficient finite volume methods. (English summary) (*see* **2004e:65004**)
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Reula, Oscar *see* **Calabrese, Gioel et al., 2004m:83005**
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Rincon, M. A. *see* **Liu, I-Shih, 2004j:35283**
Ringhofer, Christian Numerical methods for the semiconductor Boltzmann equation based on spherical harmonics expansions and entropy discretizations. (English summary) **2004a:82104**
— *see also* **Gobbert, Matthias K., 2004k:35023**
Risebro, Nils Henrik *see* **Holden, Helge et al., 2004b:35144; Bürger, Raimund et al., 2004m:35175** *and* **(2004j:00016)**
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Rogers, Benedict D. (*with* Borthwick, Alistair G. L.; Taylor, Paul H.) Mathematical balancing of flux gradient and source terms prior to using Roe's approximate Riemann solver. (English summary) **2004k:76085**
Rohde, Christian *see* **Kröner, Dietmar et al., 2004g:65117**
Rose, Donald J. *see* **Shao, Hai et al., 2004k:92014**
Rosenband, V. *see* **Aoufi, Asdin, (2004k:65005)**
Rossi, Julio D. *see* **Groisman, Pablo et al., 2004f:65135**
Rossoni, Enrico *see* **Pontrelli, Giuseppe, 2004j:92021**
Russo, Giovanni *see* **Filbet, Francis, 2004c:82116**
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Sacco, Riccardo *see* **Ballestra, Luca V., 2004m:82149**
Sakai, Shinri *see* **Yu, Jiun-Der et al., 2004j:76112**
Sampson, Kevin J. *see* **Shao, Hai et al., 2004k:92014**
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Sapagovas, Mifodiĭ *see* **Baronas, R. et al.**
Sarbach, Olivier *see* **Calabrese, Gioel et al., 2004m:83005**
Saurel, Richard *see* **Abgrall, Rémi, 2004c:76103; Chinnayya, Ashwin et al., 2004m:76105** *and*

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Seaïd, Mohammed *see* **Klar, Axel et al.**
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Seignole, V. *see* **Lorin, Emmanuel**, **2004f:76095**
Sekerka, Robert F. *see* **Sofonea, Victor**, **2004h:76125**
Sethian, James A. (*with* Smereka, Peter) Level set methods for fluid interfaces. (English summary) **2004b:76117**
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Simeoni, Chiara *see* **Katsaounis, Theodoros**, (**2004j:00016**)
Sinsoysal, Bahaddin *see* **Rasulov, Mahir et al.**, **2004k:35246**
Sjögreen, Björn *see* **Yee, H. C. et al.**, (**2004d:76003**)
Skakauskas, V. *see* **Čiegis, Raimondas et al.**, **2004e:80003**
Smereka, Peter *see* **Sethian, James A.**, **2004b:76117**
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Sonnendrücker, Eric *see* **Filbet, Francis**, **2004c:82115** *and* **Besse, N.**, **2004j:82043**
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Sweby, Peter K. *see* **Hudson, Justin**, **2004j:76110**
Takata, Takashi *see* **Matsuura, Yoshinori et al.**
Takayama, Kazuyoshi *see* **Sun, Mingyu**, **2004e:76084**
Tamura, Akio *see* **Matsuura, Yoshinori et al.**
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Tang, Tao *see* **Tang, Hua Zhong et al.**, **2004g:65125**
Tatineni, Mahidhar *see* **Zhong, Xiaolin**, **2004h:76121**
Taylor, G. A. *see* **Bailey, Chris et al.**, (**2004k:65005**)
Taylor, Paul H. *see* **Rogers, Benedict D. et al.**, **2004k:76085**
Tenaud, Christian *see* **Daru, Virginie**
Teo, Kok Lay *see* **Wang, Song**[1] **et al.**, **2004i:49063**
Terzopoulos, Demetri Deformable models: classic, topology-adaptive and generalized formulations. (English summary)
Thömmes, Guido A linear iterative scheme for the fast solution of the radiative heat transfer equations for glass. (English summary) **2004m:80018**
Thompson, Mark *see* **Zavaleta C, A. U. et al.**, **2004k:76127**
Tian, Zhen Fu *see* **Ge, Yong Bin et al.**
Tidriri, M. D. Error estimates for the hybrid finite element/finite volume methods for linear hyperbolic and convection-dominated problems. (English summary) **2004e:65114**
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Tolstykh, Andrei I. On multioperators principle for constructing arbitrary-order difference schemes. (English summary) **2004k:65190**
Tomlin, Alison S. *see* **Ghorai, Saktipada et al.**, **2004b:86002**
Toro, Eleuterio F. (*with* Vázquez-Cendón, María Elena) Model hyperbolic systems with source terms: exact and numerical solutions. (English summary) **2004b:35215**
Torrilhon, Manuel Non-uniform convergence of finite volume schemes for Riemann problems of ideal magnetohydrodynamics. (English summary) **2004k:76086**
Towers, J. D. *see* **Bürger, Raimund et al.**, **2004m:35175** *and* (**2004j:00016**)
Tran, Hien T. *see* **Banks, H. T. et al.**, **2004h:74058**
Tran, Quang Huy *see* **Eymard, Robert et al.**, (**2004e:65004**)
Trangenstein, John A. (*with* Kim, Chisup) Operator splitting and adaptive mesh refinement for the Luo-Rudy I model. (English summary) **2004m:92013**
Tsepelev, I. A. *see* **Ismail-zade, A. T. et al.**, **2004f:65139**
Tsynkov, S. V. Artificial boundary conditions for the numerical simulation of unsteady acoustic waves. (English summary) **2004f:76101**
Tyurina, N. N. *see* **Bakirova, M. I. et al.**, **2004d:76076**
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Van Keer, Roger *see* **Kačur, Jozef**, **2004m:76156**
Van Vleck, Erik S. *see* **Elmer, Christopher E.**, **2004b:35179**
Vázquez-Cendón, María Elena *see* **Toro, Eleuterio F.**, **2004b:35215**
Verwer, J. G. *see* **Berkvens, P. J. F. et al.**, **2004b:86016**
Vese, Luminita A. (*with* Osher, Stanley J.) Modeling textures with total variation minimization and oscillating patterns in image processing. (English summary) **2004k:49006**
Vetzal, K. R. *see* **Pooley, D. M. et al.**, **2004b:65132**
Vigo, Claudio L. M. *see* **Perazzo, Carlos A. et al.**
Vila, Jean-Paul (*with* Villedieu, Philippe) Convergence of an explicit finite volume scheme for first order symmetric systems. (English summary) **2004d:65102**
Villedieu, Philippe *see* **Vila, Jean-Paul**, **2004d:65102**
Vuković, Senka *see* **Sopta, Luka et al.**, **2004b:86004**
Wai, O. W. H. *see* **Zhan, Jie Min et al.**
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Warnecke, Gerald G. *see* **Kunik, Matthias et al.**, **2004j:76125** *and* **Andrianov, Nikolai et al.**, (**2004j:00016**)
Wei, Hong *see* **Zhang, Zhi Yue**, **2004g:65121**
Wendebourg, J. *see* **Scheichl, R. et al.**, **2004j:76154**
Wendroff, Burton *see* **Liska, Richard**, **2004k:76088**
Wheeler, D. *see* **Bailey, Chris et al.**, (**2004k:65005**)
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65M12 Stability and convergence of numerical methods

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Gao, Jia Quan (*with* Zhang, Huai) A domain parallel difference scheme for reservoir numerical simulation equations on unstructured grids. (Chinese. English summary) **2004d:65089**
García, Juan Antonio *see* **Gascón, M. Ll.**, **2004a:65103**
Garcia, Sonia *see* **Liu, Yingjie et al.**, **2004f:65141**
Garzón, María L. *see* **Galiano, Gonzalo et al.**, **2004a:65120**
Gascón, M. Ll. (*with* Garcia, Juan Antonio) About the TVD property for the flux-corrected transport techniques. (English summary) **2004a:65103**
Gavete, Luis *see* **Ureña, Francisco et al.**
Giraldo, F. X. Strong and weak Lagrange-Galerkin spectral element methods for the shallow water equations. (English summary)
Glinsky-Olivier, Nathalie *see* **Bongiovanni, Emmanuel et al.**, **2004c:76104**
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Gu, Yun *see* **Zhou, Yong Cheng et al.**, **2004c:76111**
Guermond, Jean Luc (*with* Minev, Peter D.) Approximation of an MHD problem using Lagrange finite elements. (English summary) **2004k:65172**
Guerra, Graziano *see* **Amadori, Debora et al.**, **2004m:65114**
Gulin, Alekseĭ Vladimirovich (*with* Morozova, V. A.) A nonlocal finite-difference boundary-value problem. (English summary)
Guo, Ben Yu *see* **Xu, Cheng-Long**, **2004j:65156**
Guo, Bo Ling (*with* Jiang, Murong) Spectral methods for the GL-BBM equations. (English summary) **2004b:65156**
Gustavsson, Katarina (*with* Sjögreen, Björn) Numerical study of a viscous consolidation model. (*see* **2004j:00016**)
Halim, A. A. (*with* Kshevetskii, S. P.; Leble, Sergei B.) Numerical integration of a coupled Korteweg-de Vries system. (English summary) **2004a:65104**
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Halpern, Laurence *see* **Gander, Martin J.**, **2004a:65124**
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He, Yin Nian A fully discrete stabilized finite-element method for the time-dependent Navier-Stokes problem. (English summary) **2004m:65151**
Helzel, Christiane *see* **Berger, Marsha J. et al.**, **2004g:65103**
Hemker, P. W. (*with* Shishkin, Grigorii I.; Shishkina, L. P.) High-order time-accurate schemes for parabolic singular perturbation convection-diffusion problems with Robin boundary conditions. (English summary) **2004j:65117**
Hérard, Jean-Marc *see* **Gallouët, Thierry et al.**, (**2004e:65004**)
Herbin, Raphaèle *see* **Eymard, Robert et al.**, **2004j:76147**
Hietel, Dietmar (*with* Keck, Rainer) Consistency by coefficient-correction in the finite-volume-particle method. (English summary) (*see* **2004d:65005**)
Holden, Helge (*with* Karlsen, Kenneth Hvistendahl; Risebro, Nils Henrik) On uniqueness and existence of entropy solutions of weakly coupled systems of nonlinear degenerate parabolic equations. (English summary) **2004b:35144**
Holstad, Astrid (*with* Lie, Ivar) Analysis of a finite volume scheme for reactive fluid flow problems. (English summary) (*see* **2004k:65005**)
Horsin-Molinaro, Thierry (*with* Mischler, Stéphane; Vasseur, Alexis) On the convergence of numerical schemes for the Boltzmann equation. (English and French summaries) **2004d:82034**
Hou, Yan Ren (*with* Li, Kai Tai) IMD based nonlinear Galerkin method. (Chinese. English and Chinese summaries) **2004c:65110**
Ikhlaq, Chohan Muhammad (*with* Mori, Kunihiko; Nakashima, Masaharu) Some explicit stable difference schemes for the variable coefficients two dimensional parabolic differential equations. (English summary) **2004k:65138**
Ishimura, Naoyuki *see* **Hanada, Takao et al.**, **2004m:65121**
Ismail, M. S. (*with* Bratsos, A. G.) A predictor-corrector scheme for the numerical solution of the Boussinesq equation. (English summary) **2004m:65122**
Jaruszewska-Walczak, D. (*with* Kamont, Zdzisław) Difference methods for quasilinear hyperbolic differential functional systems on the Haar pyramid. (English summary) **2004h:65079**
Jennings, L. S. *see* **Wang, Song[1] et al.**, **2004i:49063**
Jiang, Murong *see* **Guo, Bo Ling**, **2004b:65156**
Jiao, Dan (*with* Jin, Jian-Ming) Three-dimensional orthogonal vector basis functions for time-domain finite element solution of vector wave equations. (English summary) **2004c:78034**
Jin, Cheng Ri An alternating group explicit iteration method for a dispersive equation. (Chinese. English and Chinese summaries) **2004a:65105**
Jin, Jian-Ming *see* **Jiao, Dan**, **2004c:78034**
Joly, Patrick Variational methods for time-dependent wave propagation problems. **2004k:65139**
— *see also* **Collino, Francis et al.**, **2004g:65123** *and* **2004g:65126**
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Jorge, J. C. *see* **Clavero Gracia, Carmelo et al.**, **2004d:65088**
Jovanović, Boško S. (*with* Shcheglik, V. S.) On the convergence of a difference scheme for a two-dimensional quasilinear heat equation with generalized solutions. (Russian. English and Russian summaries) **2004f:65117**
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Jüngel, Ansgar (*with* Pinnau, René) Convergent semidiscretization of a nonlinear fourth order parabolic system. (English summary) **2004f:65150**
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Kačur, Jozef (*with* Van Keer, Roger) Solution of degenerate parabolic variational inequalities with convection. (English summary) **2004c:65107**
— (*with* Mahmood, Mohammed Shuker) Solution of solute transport in unsaturated porous media by the method of characteristics. (English summary) **2004h:65092**
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Kamont, Zdzisław (*with* Newlin-Łukowicz, J.) Runge-Kutta bicharacteristic methods for first order partial functional differential equations. (English summary) **2004j:65135**
— *see also* **Baranowska, Anna**, **2004b:35038**; **2004m:65116** *and* **Jaruszewska-Walczak, D.**, **2004h:65079**
Karatay, I. *see* **Ashyralyev, Allaberen**, **2004m:65115**
Karlsen, Kenneth Hvistendahl *see* **Holden, Helge et al.**, **2004b:35144** *and* **Bürger, Raimund et al.**, **2004m:35175**
Katsaounis, Theodoros (*with* Perthame, Benoît; Simeoni, Chiara) Upwinding sources at interfaces in conservation laws. (English summary)
Keck, Rainer *see* **Hietel, Dietmar**, (**2004d:65005**)
Khalifa, Ahmed K. (*with* Farea, Hussain A.) A stable finite difference technique for nerve conduction equations. (English summary) **2004c:65091**
Kikuchi, Norio (*with* Kačur, Jozef) Convergence of Rothe's method in Hölder spaces. (English summary) **2004k:35165**
Kim, Mi-Young[2] (*with* Selenge, Ts.) Age-time discontinuous Galerkin method for the Lotka-McKendrick equation. (English summary) **2004g:65130**
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Korotov, Sergey *see* **Faragó, István et al.**, **2004a:65127**
Kreiss, Heinz-Otto (*with* Petersson, N. Anders; Ystrőm, Jacob) Difference approximations for the second order wave equation. (English summary) **2004c:65092**
Krueger, D. A. *see* **King, Belinda B.**
Kshevetskii, S. P. *see* **Halim, A. A. et al.**, **2004a:65104** *and* **2004j:76015**
Kutluay, S. (*with* Esen, A.) An isotherm migration formulation for one-phase Stefan problem with a time dependent Neumann condition. (English summary) **2004m:80016**
Lanteri, Stéphane *see* **Dolean, Victorita et al.**, **2004m:65144**
Lapin, A. V. *see* **Glowinski, Roland et al.**, **2004i:65078**
Lapin, S. A. *see* **Glowinski, Roland et al.**, **2004i:65078**
Laurençot, Philippe *see* **Filbet, Francis**, **2004g:65106**
Leble, Sergei B. *see* **Halim, A. A. et al.**, **2004a:65104** *and* **2004j:76015**
Lee, Jongwoo (*with* Fornberg, Bengt) A split step approach for the 3-D Maxwell's equations. (English summary) **2004f:65121**
Lee, Sang-Mi *see* **Byun, Daewon W.**, **2004b:86001**
LeVeque, Randall J. *see* **Berger, Marsha J. et al.**, **2004g:65103**
Levy, Doron *see* **Bryson, Steve**, **2004d:65087**
Li, Changjun[1] *see* **Zhang, Tie**, **2004g:65133**
Li, Da Ming[2] Convergence of finite volume method for a scalar conservation law with nonlinear source in two dimensions. (Chinese. English and Chinese summaries) **2004f:65122**
Li, Kai Tai *see* **Hou, Yan Ren**, **2004c:65110**
Li, Nian[2] (*with* Steiner, Joseph M.) Finite difference schemes for n-dimensional reaction-diffusion equation. (English summary) **2004i:65083**
Li, Quang *see* **Dai, Wei-zhong et al.**, **2004k:80015**
Li, Shan *see* **Li, Sheng Kun et al.**
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Li, Xiang Gui (*with* Yan, Wei; Chan, Chi Kin) Numerical schemes for Hamilton-Jacobi equations on unstructured meshes. (English summary) **2004b:65153**
Liang, Dong Upwinding finite covolume methods for unsteady convection-diffusion problems. (English summary) (*see* **2004h:65005**)
Liang, Zong Qi Global solution and numerical computation of a generalized nonlinear Sine-Gordon equation. (Chinese. English and Chinese summaries)
Lie, Ivar *see* **Holstad, Astrid**, (**2004k:65005**)
Limić, Nedžad (*with* Rogina, Mladen) Explicit stable methods for the initial value problem for second-order parabolic systems. (English summary) (*see* **2004c:00014**)
Lin, Jia Fu (*with* Lin, Qun[1]) Global superconvergence of the mixed finite element methods for 2-D Maxwell equations. (English summary) **2004g:65131**
Lin, Qun[1] *see* **Lin, Jia Fu**, **2004g:65131**
Lin, Yan-ping *see* **Liu, Tang et al.**, **2004a:65131**
Lisbona, Francisco J. *see* **Clavero Gracia, Carmelo et al.**, **2004d:65088**
Liu, Biyue On a finite element method for unsteady compressible viscous flows. (English summary) **2004f:65152**
Liu, Fen *see* **Zhang, Lu Ming**, **2004d:65100**
Liu, Hailiang The l^1 global decay to discrete shocks for scalar monotone schemes. (English summary) **2004e:65096**
Liu, Ji Jun The 3-layered explicit difference scheme for 2-D heat equation. (Chinese. English and Chinese summaries) **2004g:65109**
Liu, Jian-Guo[1] *see* **Chainais-Hillairet, Claire et al.**, **2004e:65093**
Liu, Jiang-Guo *see* **Ewing, Richard E. et al.**, **2004m:65143**
Liu, Tang (*with* Lin, Yan-ping; Rao, Ming; Cannon, John R.) Finite element methods for Sobolev equations. (English summary) **2004a:65131**
Liu, Yingjie (*with* Bank, Randolph E.; Dupont, Todd F.; Garcia, Sonia; Santos, Rafael F.) Symmetric error estimates for moving mesh mixed methods for advection-diffusion equations. (English summary) **2004f:65141**
LoDestro, L. L. *see* **Shestakov, Aleksei I. et al.**, **2004d:76059a** *and* **2004d:76059b**

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Lorin, Emmanuel (*with* Seignole, V.) Convection systems with stiff source terms. (English summary) **2004f:76095**
Lötstedt, Per *see* **Ferm, Lars**, **2004m:65120**
Lü, Gui Xia (*with* Ma, Fu Ming) A parallel difference scheme for a parabolic equation. (Chinese. English and Chinese summaries) **2004i:65084**
Lubuma, Jean M.-S. *see* **Angelov, Rumen Angelov et al.**, **2004k:65127**
Luo, Zhen Dong (*with* Xie, Zheng Hui; Zhu, Jiang[3]; Zeng, Qing Cun) Mixed finite element method and numerical simulation for the unsaturated soil water flow problem. (English summary) **2004c:65113**
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Ma, Fu Ming *see* **Lü, Gui Xia**, **2004i:65084**
Ma, Ming Shu *see* **Wang, Tong Ke et al.**, **2004g:65112**
Mahmood, Mohammed Shuker *see* **Kačur, Jozef**, **2004h:65092**
Mahudu, Simon K. *see* **Angelov, Rumen Angelov et al.**, **2004k:65127**
Makridakis, Charalambos (*with* Perthame, Benoît) Optimal rate of convergence for anisotropic vanishing viscosity limit of a scalar balance law. (English summary) **2004h:35136**
— (*with* Perthame, Benoît) Sharp CFL, discrete kinetic formulation, and entropic schemes for scalar conservation laws. (English summary) **2004h:65081**
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Matus, Petr P. Stability of difference schemes for nonlinear time-dependent problems. (English summary) **2004h:65082**
Meladze, Gamlet *see* **Criado, Francisco et al.**, **2004c:65088**
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Michelson, Daniel Stability of discrete shocks for difference approximations to systems of conservation laws. (English summary) **2004b:65121**
Mickens, Ronald E. A nonstandard finite difference scheme for a Fisher PDE having nonlinear diffusion. (English summary)
Minev, Peter D. *see* **Guermond, Jean Luc**, **2004k:65172**
Mischler, Stéphane *see* **Horsin-Molinaro, Thierry et al.**, **2004d:82034**
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— An unconditionally stable difference scheme for the one-space-dimensional linear hyperbolic equation. (English summary) **2004m:65127**
Mophou, Gisèle (*with* Poullet, Pascal) A split Godunov scheme for solving one-dimensional hyperbolic systems in a nonconservative form. (English summary) **2004a:65109**
Mori, Kunihiko *see* **Ikhlaq, Chohan Muhammad et al.**, **2004k:65138**
Morozova, V. A. *see* **Gulin, Alekseĭ Vladimirovich**
Moszyński, Krzysztof *see* **Dryja, Maksymilian**, (**2004k:65005**)
Mustafa, Ghulam *see* **Rashid, Abdur**, **2004j:65152**
Nakamura, Masaaki *see* **Hanada, Takao et al.**, **2004m:65121**
Nakashima, Masaharu Unconditionally stable explicit difference schemes for the variable coefficients parabolic differential equation. III. (English summary) **2004k:65143**
— Unconditionally stable explicit difference schemes for the variable coefficients parabolic differential equation. IV. (English summary) (*see* **2004j:65007**)
— *see also* **Ikhlaq, Chohan Muhammad et al.**, **2004k:65138**
Nashun, Bu He (*with* Zhixun, Su) An alternating group method of parallel computing for the heat equations. (English summary)
Nassar, Raja *see* **Dai, Wei-zhong et al.**, **2004j:65113** *and* **2004k:80015**
Nataf, Frédéric *see* **Dolean, Victorita et al.**, **2004m:65144**
Neittaanmäki, Pekka *see* **Faragó, István et al.**, **2004a:65127**
Newlin-Łukowicz, J. *see* **Kamont, Zdzisław**, **2004j:65135**
Nguyễn Minh Chu'o'ng (*with* Bui Kien Cuong) The convergence estimates for Galerkin-wavelet solution of periodic pseudodifferential initial value problems. (English summary) **2004b:35350**
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Ohm, Mi Ray Mixed finite element method for a single phase quasi-linear Stefan problem with a forcing term in non-divergence form. (English summary) **2004d:80007**
Omang, Marianne *see* **Børve, Steinar et al.**, (**2004d:65005**)
Onots′kiĭ, V. V. *see* **Lyashko, Ī. Ī. et al.**
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Pareschi, Lorenzo (*with* Russo, Giovanni) High order asymptotically strong-stability-preserving methods for hyperbolic systems with stiff relaxation. (English summary) (*see* **2004j:00016**)
Peiró, J. *see* **Zienkiewicz, Olgierd C. et al.**, **2004i:65098**
Peng, Yue-Jun *see* **Chainais-Hillairet, Claire et al.**, **2004e:65093** *and* (**2004e:65004**)
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von Petersdorff, T. (*with* Schwab, Christoph) Wavelet discretizations of parabolic integrodifferential equations. (English summary) **2004g:65190**
Petersson, N. Anders *see* **Kreiss, Heinz-Otto et al.**, **2004c:65092**
Pietra, Paola *see* **Markowich, Peter A. et al.**, **2004b:65120**
Pinnau, René A review on the quantum drift diffusion model. (English summary) **2004b:82059**
— *see also* **Jüngel, Ansgar**, **2004f:65150**
Pironneau, Olivier *see* **Bardos, Claude**, **2004c:35265** *and* **Botchorishvili, Ramaz**, **2004c:65086**
Piskarëv, S. I. *see* **Ashyralyev, Allaberen et al.**, **2004e:65060**
Pohl, Carsten *see* **Markowich, Peter A. et al.**, **2004b:65120**
Poullet, Pascal *see* **Mophou, Gisèle**, **2004a:65109**
Prigozhin, Leonid (*with* Zal′tsman, B. B.) On the approximation of the dynamics of sandpile surfaces. (English summary) **2004k:82101**
Prohl, Andreas *see* **Feng, Xiaobing**, **2004e:65111**
Pujol, Maria J. (*with* Grimalt Ivars, Pedro) A non-linear model of cerebral diffusion: stability of finite differences method and resolution using the Adomian method. (English summary) **2004c:92014**
Qin, Shu Jie *see* **Sun, Che**, **2004c:65116**
Quirós Gracián, Fernando *see* **Groisman, Pablo et al.**, **2004f:65135**
Rao, Ming *see* **Liu, Tang et al.**, **2004a:65131**
Rashid, Abdur (*with* Mustafa, Ghulam) The Fourier pseudospectral method with restraint operator for Burgers equation. (English and Chinese summaries) **2004j:65152**
Raviart, Pierre-Arnaud *see* **Godlewski, Edwige**, (**2004e:65004**)
Reignier, Didier *see* **Berthon, Christophe**, **2004e:65090**
Rein, Gerhard (*with* Rodewis, Thomas) Convergence of a particle-in-cell scheme for the spherically symmetric Vlasov-Einstein system. (English summary) **2004g:83011**
Remaki, L. *see* **Cheriet, M.**, **2004h:65075**
Remaki, Malika *see* **Lohrengel, Stephanie**, (**2004e:65004**)
Ren, Zong Xiu *see* **Wang, Tong Ke et al.**, **2004g:65112**
Ribot, Magali *see* **Descombes, Stéphane**, **2004i:65076**
Risebro, Nils Henrik *see* **Holden, Helge et al.**, **2004b:35144** *and* **Bürger, Raimund et al.**, **2004m:35175**
Rodewis, Thomas *see* **Rein, Gerhard**, **2004g:83011**
Rogina, Mladen *see* **Limić, Nedžad**, (**2004c:00014**)
Rossi, Julio D. *see* **Groisman, Pablo et al.**, **2004f:65135**
Russo, Giovanni *see* **Mathew, T. P.**, **2004a:65107** *and* **Pareschi, Lorenzo**, (**2004j:00016**)
Ruuth, Steven J. *see* **Spiteri, Raymond J.**
Samelson, R. M. (*with* Temam, Roger; Wang, Cheng[4]; Wang, Shou Hong) Surface pressure Poisson equation formulation of the primitive equations: numerical schemes. (English summary) **2004g:65111**
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Santos, Rafael F. *see* **Liu, Yingjie et al.**, **2004f:65141**
Scheid, Jean-Francois *see* **San Martín H., Jorge et al.**
Schroll, Hans Joachim Relaxed high resolution schemes for hyperbolic conservation laws. (English summary)
Schwab, Christoph *see* **von Petersdorff, T.**, **2004g:65190**
Seguin, Nicolas *see* **Gallouët, Thierry et al.**, (**2004e:65004**)
Seignole, V. *see* **Lorin, Emmanuel**, **2004f:76095**
Selenge, Ts. *see* **Kim, Mi-Young[2]**, **2004g:65130**
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Shcheglik, V. S. *see* **Jovanović, Boško S.**, **2004f:65117**
Shen, Lixin[1] *see* **Dai, Wei-zhong et al.**, **2004j:65113** *and* **2004k:80015**
Shen, Long Jun (*with* Yuan, Guang Wei) The unconditional convergent difference methods with intrinsic parallelism for quasilinear parabolic systems with two dimensions. (English summary) **2004c:65095**
— *see also* **Sun, Zhi Zhong**, **2004h:65087**
Sherwin, Spencer J. *see* **Zienkiewicz, Olgierd C. et al.**, **2004i:65098**
Shestakov, Aleksei I. (*with* Cohen, R. H.; Crotinger, J. A.; LoDestro, L. L.; Tarditi, A.; Xu, Xueqiao) Self-consistent modeling of turbulence and transport. (English summary) **2004d:76059a**
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Simeoni, Chiara *see* **Katsaounis, Theodoros et al.** *and* **Perthame, Benoît**, (**2004j:00016**)
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65M15 Error bounds

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Creusé, E. *see* **Nicaise, Serge, 2004j:65133**
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65M20 Method of lines

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Antonov, Anton Galerkin and control volume finite element methods for large scale air pollution simulations: a comparison. (English summary) (*see* **2004j:65007**)

Banks, H. T. (*with* Raye, J. K.) Computational methods for nonsmooth acoustic systems. (English summary) **2004k:65167**

Barrett, John W.[1] (*with* Langdon, Stephen; Nürnberg, Robert) Finite element approximation of a sixth order nonlinear degenerate parabolic equation. (English summary) **2004k:65168**

Beccantini, Alberto *see* **Le Potier, Christophe, (2004e:65004)**

Behiry, S. H. (*with* Hashish, H.) Comparison of a wavelet-Galerkin procedure with a Crank-Nicolson-Galerkin procedure for diffusion equation subject to the specification of mass. (English summary) **2004d:65110**

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Bergam, A. (*with* Bernardi, Christine; Hecht, Frédéric; Mghazli, Z.) Error indicators for the mortar finite element discretization of a parabolic problem. (English summary) **2004m:65148**

Bermejo, Rodolfo (*with* El Amrani, Mofdi) A finite element semi-Lagrangian explicit Runge-Kutta-Chebyshev method for convection dominated reaction-diffusion problems. (English summary) **2004b:65143**

Bernardi, Christine *see* **Bergam, A. et al., 2004m:65148**

Berzins, Martin Variable-order finite elements and positivity preservation for hyperbolic PDEs. (English summary)

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Besson, Olivier (*with* de Montmollin, Gautier) Space-time integrated least squares: a time-marching approach. (English summary) **2004m:65149**

Boelens, O. J. *see* **van der Vegt, J. J. W. et al., 2004b:65155**

Boldrini, José L. (*with* Rojas-Medar, Marko A.; Fernández-Cara, Enrique) Semi-Galerkin approximation and strong solutions to the equations of the nonhomogeneous asymmetric fluids. (English and French summaries) **2004j:65141**

de Borst, R. *see* **Munts, E. A. et al., 2004f:65154**

Cannon, John R. *see* **Liu, Tang et al., 2004a:65131**

Cao, Weiming *see* **Lang, Jens[1] et al., 2004d:65113**

Chan, Chi Kin *see* **Li, Xiang Gui et al., 2004b:65153**

Chaplain, Mark A. J. *see* **Valenciano, J., 2004d:65116**

Chen, Ching Shyang *see* **Ingber, Marc S. et al.**

Chen, Guang Nan *see* **Li, Xiang Gui et al., 2004f:65151**

Chen, Huan Zhen *see* **Jiang, Ziwen, 2004h:65100** *and* **Zhao, Pei Xin**

Chen, Jiuhua (*with* Han, Weimin; Sofonea, Mircea) Numerical analysis of a class of evolution systems arising in viscoplasticity. (English summary) **2004h:65098**

Chen, Wei[7] Implicit-explicit multistep finite element-mixed finite element methods for the transient behavior of a semiconductor device. (English summary) **2004e:65110**

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Chen, Yan Ping[1] (*with* Huang, Yun Qing; Yu, De Hao) A two-grid method for expanded mixed finite-element solution of semilinear reaction-diffusion equations. (English summary) **2004b:65144**

Cheng, Zhi Wei (*with* Li, Yong Hai) Finite volume element method based on BB dual subdivisions for parabolic equations. (Chinese. English and Chinese summaries)

Chevaugeon, N. *see* **Krivodonova, Lilia et al.**

Christou, M. A. (*with* Christov, Christo I.) Fourier-Galerkin method for localized solutions of the sixth-order generalized Boussinesq equation. (English summary) **2004f:65146**

Christov, Christo I. *see* **Christou, M. A., 2004f:65146**

Chung, Sang Kwon (*with* Pani, Amiya K.) Numerical methods for the Rosenau equation. (English summary) **2004b:65145**

Cockburn, Bernardo (*with* Luskin, Mitchell; Shu, Chi-Wang; Süli, Endre) Enhanced accuracy by post-processing for finite element methods for hyperbolic equations. (English summary) **2004g:65129**

Copetti, M. I. M. Finite element approximation to a quasi-static thermoelastic problem to the contact of two rods. (English summary) **2004b:65146**

— (*with* French, Donald A.) Numerical solution of a thermoviscoelastic contact problem by a penalty method. (English summary) **2004m:65150**

Coutinho, Alvaro L. G. A. (*with* da Silva, Arlenes Silvino; Devloo, Philippe R. B.) Comparison of stabilization schemes for the finite-element simulation of two-phase immiscible flows in porous media. (Portuguese. English and Portuguese summaries)

Crouzeix, Michel Contractivity and analyticity in l^p of some approximation of the heat equation. (English summary) **2004k:65169**

Dağ, İdris *see* **Kutluay, S. et al.**

Dahlgren, Martin A finite element method for parabolic equations.

Dai, Qing Fang *see* **Yu, Xi Jun, (2004h:65005)**

Dashevski, D. (*with* Glowinski, Roland; Kuznetsov, Yurīĭ Alekseevich[1]; Lipnikov, Konstantin) Fictitious domain based solvers for particulate flows. (*see* **2004e:65003**)

Davies, Alan J. *see* **Honnor, M. E. et al., (2004k:65004)**

Dawson, Clint (*with* Proft, Jennifer) Coupled discontinuous and continuous Galerkin finite element methods for the depth-integrated shallow water equations. (English summary) **2004k:65170**

Deckelnick, Klaus (*with* Dziuk, Gerhard) A finite element level set method for anisotropic mean curvature flow with space dependent weight. **2004i:65094**

Devloo, Philippe R. B. *see* **Coutinho, Alvaro L. G. A. et al.**

Dolejší, Vít (*with* Feistauer, Miloslav; Schwab, Christoph) On discontinuous Galerkin methods for nonlinear convection-diffusion problems and compressible flow. (English summary) **2004f:65147**
— (*with* Feistauer, Miloslav; Schwab, Christoph) On some aspects of the discontinuous Galerkin finite element method for conservation laws. (English summary)
Droniou, Jérôme (*with* Eymard, Robert; Hilhorst, Danielle; Zhou, X. D.) Convergence of a finite-volume mixed finite-element method for an elliptic-hyperbolic system. (English summary) **2004f:65148**
Du, Qi Kui *see* **Yu, De Hao**, **2004f:65155**
Dupont, Todd F. (*with* Liu, Yingjie) Symmetric error estimates for moving mesh Galerkin methods for advection-diffusion equations. (English summary) **2004b:65147**
Dziuk, Gerhard *see* **Deckelnick, Klaus**, **2004i:65094**
El Amrani, Mofdi *see* **Bermejo, Rodolfo**, **2004b:65143**
Esen, A. *see* **Kutluay, S. et al.**
Eymard, Robert *see* **Droniou, Jérôme et al.**, **2004f:65148**
Fadimba, Koffi B. (*with* Sharpley, Robert C.) Galerkin finite element method for a class of porous medium equations. (English summary) **2004k:65171**
Faragó, István (*with* Korotov, Sergey; Neittaanmäki, Pekka) Galerkin approximations for the linear parabolic equation with the third boundary condition. (English summary) **2004a:65127**
Feistauer, Miloslav *see* **Dolejší, Vít et al.**, **2004f:65147**
Feng, Xiaobing (*with* Prohl, Andreas) Analysis of total variation flow and its finite element approximations. (English summary) **2004f:65149**
— (*with* Prohl, Andreas) Numerical analysis of the Allen-Cahn equation and approximation for mean curvature flows. (English summary) **2004e:65111**
Ferdinand, Robert R. Numerical scheme approximating solution and parameters in a beam equation. (English summary) **2004j:65142**
Fernández-Cara, Enrique *see* **Boldrini, José L. et al.**, **2004j:65141**
Flaherty, Joseph E. *see* **Krivodonova, Lilia et al.**, **2004e:65112** *and* **Remacle, Jean-François et al.**, **2004k:65176**
French, Donald A. *see* **Copetti, M. I. M.**, **2004m:65150**
Frijns, A. J. H. *see* **Kaasschieter, E. F. et al.**
de Frutos, Javier (*with* Novo, Julia) Postprocessing the linear finite element method. (English summary) **2004b:65148**
Givoli, Dan (*with* Neta, Beny; Patlashenko, Igor) Finite element analysis of time-dependent semi-infinite wave-guides with high-order boundary treatment. (English summary) **2004j:65143**
Glowinski, Roland *see* **Dashevski, D. et al.**, (**2004e:65003**)
Gokieli, Maria (*with* Marcinkowski, Leszek) Discrete approximation of the Cahn-Hilliard/Allen-Cahn system with logarithmic entropy. (English summary) **2004j:65144**
Grün, Günther On the convergence of entropy consistent schemes for lubrication type equations in multiple space dimensions. (English summary) **2004c:65109**
Guermond, Jean Luc (*with* Minev, Peter D.) Approximation of an MHD problem using Lagrange finite elements. (English summary) **2004k:65172**
— (*with* Minev, Peter D.) Mixed finite element approximation of an MHD problem involving conducting and insulating regions: the 3D case. (English summary) **2004h:65099**
Hall, William F. *see* **Kabakian, Adour V. et al.**
Han, Weimin *see* **Chen, Jiuhua et al.**, **2004b:65098**
Hartmann, Ralf (*with* Houston, Paul) Adaptive discontinuous Galerkin finite element methods for nonlinear hyperbolic conservation laws. (English summary) **2004b:65149**
Hashish, H. (*with* Behiry, S. H.) A comparison between the wavelet-Galerkin and the sinc-Galerkin methods for solving parabolic partial differential equations. (English summary) **2004a:65128**
— *see also* **Behiry, S. H.**, **2004d:65110**
He, Yin Nian (*with* Li, Kai Tai) Nonlinear Galerkin method for the exterior nonstationary Navier-Stokes equations. (Chinese. English and Chinese summaries) **2004a:65129**
— A fully discrete stabilized finite-element method for the time-dependent Navier-Stokes problem. (English summary) **2004m:65151**
— Two-level method based on finite element and Crank-Nicolson extrapolation for the time-dependent Navier-Stokes equations. (English summary) **2004k:65173**
— A two-level finite element Galerkin method for the nonstationary Navier-Stokes equations. I. Spatial discretization. (English summary) **2004j:65095**
— (*with* Miao, Huan-ling; Ren, Chun-feng) A two-level finite element Galerkin method for the nonstationary Navier-Stokes equations. II. Time discretization. (English summary) **2004j:65145**
Hecht, Frédéric *see* **Bergam, A. et al.**, **2004m:65148**
Hilhorst, Danielle *see* **Droniou, Jérôme et al.**, **2004f:65148**
Honnor, M. E. (*with* Davies, Alan J.; Kane, S. J.) Nonlinear transient field problems with phase change using the generalized Newmark dual reciprocity boundary element method. (English summary) (*see* **2004k:65004**)
Hou, Yan Ren (*with* Li, Kai Tai) Error estimate for a two-level scheme of Newton type for the Navier-Stokes equations. (English summary) **2004m:65152**
— (*with* Li, Kai Tai) IMD based nonlinear Galerkin method. (Chinese. English and Chinese summaries) **2004c:65110**
— (*with* Li, Kai Tai) A small eddy correction method for nonlinear dissipative evolutionary equations. (English summary) **2004k:65174**
Houston, Paul *see* **Hartmann, Ralf**, **2004b:65149**
Huang, Wei Zhang[1] *see* **Lang, Jens**[1] **et al.**, **2004d:65113**
Huang, Yun Qing *see* **Chen, Yan Ping**[1] **et al.**, **2004b:65144**
Huang, Zhongyi High accuracy numerical method of thin-film problems in micromagnetics. (English summary) **2004c:65111**
Hubbard, Matthew (*with* Berzins, Martin) A positivity preserving finite element method for hyperbolic partial differential equations. (English summary) (*see* **2004g:76003**)
Hulshoff, S. J. *see* **Munts, E. A. et al.**, **2004f:65154**
Hundsdorfer, Willem (*with* Jaffré, Jérôme) Implicit-explicit time stepping with spatial discontinuous finite elements. (English summary) **2004b:65150**
Huyghe, J. M. *see* **Kaasschieter, E. F. et al.**
Ingber, Marc S. (*with* Chen, Ching Shyang; Tanski, J. A.) A mesh free approach using radial basis functions and parallel domain decomposition for solving three-dimensional diffusion equations. (English summary)
Jaffré, Jérôme *see* **Hundsdorfer, Willem**, **2004b:65150**
Jia, Erhui (*with* Lin, Qun[1]) Superconvergence of the non-conforming domain decomposed finite element method with Lagrange multipliers for parabolic problems. (English summary) **2004b:65151**
Jiang, Ziwen (*with* Chen, Huan Zhen) Error estimates for mixed finite element methods for Sobolev equation. (English summary) **2004h:65100**
Jüngel, Ansgar (*with* Pinnau, René) Convergent semidiscretization of a nonlinear fourth order parabolic system. (English summary) **2004f:65150**
Kaasschieter, E. F. (*with* Frijns, A. J. H.; Huyghe, J. M.) Mixed finite element modelling of cartilaginous tissues. (English summary)
Kabakian, Adour V. (*with* Shankar, Vijaya; Hall, William F.) Unstructured grid-based discontinuous Galerkin method for broadband electromagnetic simulations. (English summary)
Kane, S. J. *see* **Honnor, M. E. et al.**, (**2004k:65004**)
Kim, Mi-Young[2] (*with* Selenge, Ts.) Age-time discontinuous Galerkin method for the Lotka-McKendrick equation. (English summary) **2004g:65130**
King, Belinda B. (*with* Krueger, D. A.) Burgers' equation: Galerkin least-squares approximations and feedback control. (English summary)
Knopp, T. (*with* Lube, Gert; Müller, Hannes) Iterative substructuring methods for incompressible and nonisothermal flows using the $k-\varepsilon$ turbulence model. (*see* **2004e:65003**)
Korotov, Sergey *see* **Faragó, István et al.**, **2004a:65127**
Krivodonova, Lilia (*with* Flaherty, Joseph E.) Error estimation for discontinuous Galerkin solutions of two-dimensional hyperbolic problems. (English summary) **2004e:65112**
— (*with* Xin, J.; Remacle, Jean-François; Chevaugeon, N.; Flaherty, Joseph E.) Shock detection and limiting with discontinuous Galerkin methods for hyperbolic conservation laws. (English summary)
Krueger, D. A. *see* **King, Belinda B.**
Kutluay, S. (*with* Esen, A.; Dağ, İdris) Numerical solutions of the Burgers' equation by the least-squares quadratic B-spline finite element method. (English summary)
Kuzmin, D. (*with* Möller, Matthias; Turek, Stefan) Multidimensional FEM-FCT schemes for arbitrary time stepping. (English summary) **2004d:65112**
Kuznetsov, Yurii Alekseevich[1] *see* **Dashevski, D. et al.**, (**2004e:65003**)
Lai, Ming-Jun (*with* Liu, Chun; Wenston, Paul) Bivariate spline method for numerical solution of time evolution Navier-Stokes equations over polygons in stream function formulation. (English summary) **2004i:65096**
Lang, Jens[1] (*with* Cao, Weiming; Huang, Wei Zhang[1]; Russell, Robert D.) A two-dimensional moving finite element method with local refinement based on a posteriori error estimates. (English summary) **2004d:65113**
Langdon, Stephen *see* **Barrett, John W.**[1] **et al.**, **2004k:65168**
Layton, Anita T. A semi-Lagrangian collocation method for the shallow water equations on the sphere. (English summary) **2004c:65112**
Leal-Toledo, R. C. P. (*with* Toledo, E. M.; Vasconcelos, M. S.) Application of least-squares formulations to diffusion problems. (Portuguese. English and Portuguese summaries)
Lee, Chang-Ock[2] (*with* Lee, Jongwoo; Sheen, Dongwoo) A frequency-domain method for finite element solutions of parabolic problems. (English summary) **2004a:65130**
Lee, Hyun Young *see* **Ahn, Min Jung et al.**, **2004a:65125**
Lee, Jongwoo *see* **Lee, Chang-Ock**[2] **et al.**, **2004a:65130**
Lee, Ping-Hang *see* **Sheu, Tony W. H.**, **2004d:65115**
Le Potier, Christophe (*with* Beccantini, Alberto) Finite volume scheme for a parabolic equation on an unstructured mesh. (English summary) (*see* **2004e:65004**)
Leykekhman, Dmitriy Pointwise localized error estimates for parabolic finite element equations. (English summary) **2004k:65175**
Li, Changjun[1] *see* **Zhang, Tie**, **2004g:65133**
Li, Jichun Finite element analysis and application for a nonlinear diffusion model in image denoising. (English summary) **2004b:65152**
Li, Kai Tai *see* **He, Yin Nian**, **2004a:65129**; **Hou, Yan Ren**, **2004c:65110**; **2004k:65174** *and* **2004m:65152**
Li, Xiang Gui (*with* Yu, Xi Jun; Chen, Guang Nan) A monotone finite element scheme for Hamilton-Jacobi equations on unstructured meshes. (Chinese. English summary) **2004f:65151**
— (*with* Yan, Wei; Chan, Chi Kin) Numerical schemes for Hamilton-Jacobi equations on unstructured meshes. (English summary) **2004b:65153**
Li, Yong Hai *see* **Cheng, Zhi Wei**
Lin, Jia Fu (*with* Lin, Qun[1]) Global superconvergence of the mixed finite element methods for 2-D Maxwell equations. (English summary) **2004g:65131**
Lin, Qun[1] *see* **Jia, Erhui**, **2004b:65151** *and* **Lin, Jia Fu**, **2004g:65131**
Lin, Yan-ping *see* **Liu, Tang et al.**, **2004a:65131**
Lipnikov, Konstantin *see* **Dashevski, D. et al.**, (**2004e:65003**)
Liu, Biyue On a finite element method for unsteady compressible viscous flows. (English summary) **2004f:65152**
Liu, Chun *see* **Lai, Ming-Jun et al.**, **2004i:65096**
Liu, Tang (*with* Lin, Yan-ping; Rao, Ming; Cannon, John R.) Finite element methods for Sobolev equations. (English summary) **2004a:65131**
Liu, Yingjie *see* **Dupont, Todd F.**, **2004b:65147**
Liu, Yun Xian Alternating-direction multistep preconditioned iterative methods for semiconductor problem with heat-conduction. (English summary) **2004b:65154**
Loeffler, C. F. *see* **Velázquez Castillo, G. A.**, (**2004k:65004**)
Lopes, Ernesto Prado (*with* de Mattos, José Roberto Linhares) A wavelet Galerkin method applied to partial differential equations with variable coefficients. (English summary) **2004e:65113**
Lube, Gert *see* **Knopp, T. et al.**, (**2004e:65003**)
Lukáčová-Medviďová, Mária (*with* Saibertová, J.; Warnecke, Gerald G.) Finite volume evolution Galerkin methods for nonlinear hyperbolic systems. (English summary) **2004d:65114**
— (*with* Warnecke, Gerald G.; Zahaykah, Y.) Third order finite volume evolution Galerkin (FVEG) methods for two-dimensional wave equation system. (English summary) **2004j:65146**
Luo, Zhen Dong (*with* Xie, Zheng Hui; Zhu, Jiang[3]; Zeng, Qing Cun) Mixed finite element method and numerical simulation for the unsaturated soil water flow problem. (English

summary) **2004c:65113**
Luskin, Mitchell *see* **Cockburn, Bernardo et al., 2004g:65129**
Ma, Chang Feng A finite-element approximation of a quasi-magnetostatic 3D eddy current model by fractional-step A-ψ scheme. (English summary) **2004m:65153**
Marcinkowski, Leszek *see* **Gokieli, Maria, 2004j:65144**
Margolin, Len G. (*with* Titi, Edriss S.; Wynne, Shannon) The postprocessing Galerkin and nonlinear Galerkin methods—a truncation analysis point of view. (English summary) **2004g:65132**
Maryška, Jiří *see* **Šembera, Jan et al., (2004h:65005)**
Matsumoto, Toshiro *see* **Tanaka, Masataka et al., (2004k:65004)**
de Mattos, José Roberto Linhares *see* **Lopes, Ernesto Prado, 2004e:65113**
Mayer, Uwe F. Numerical solutions for the surface diffusion flow in three space dimensions. (English summary) **2004f:65153**
Mghazli, Z. *see* **Bergam, A. et al., 2004m:65148**
Miao, Huan-ling *see* **He, Yin Nian et al., 2004j:65145**
Minev, Peter D. *see* **Guermond, Jean Luc, 2004h:65099** *and* **2004k:65172**
Möller, Matthias *see* **Kuzmin, D. et al., 2004d:65112**
de Montmollin, Gautier *see* **Besson, Olivier, 2004m:65149**
Mounim, A. Serghini A new mixed-hybrid finite element method for convection-diffusion problems. (English summary)
Müller, Hannes *see* **Knopp, T. et al., (2004e:65003)**
Munts, E. A. (*with* Hulshoff, S. J.; de Borst, R.) The partition-of-unity method for linear diffusion and convection problems: accuracy, stabilization and multiscale interpretation. (English summary) **2004f:65154**
Nair, Pradeepa (*with* Pani, Amiya K.) Semi-discrete finite element method for a class of visco-elastic problems with long memory under condition of friction. (*see* **2004j:00016**)
Nakaguchi, Etsushi (*with* Yagi, Atsushi) Full discrete approximations by Galerkin method for chemotaxis-growth model. (English summary) **2004c:65114**
— (*with* Yagi, Atsushi) Numerical analysis for semilinear evolution equations of parabolic type. (English summary)
Nasif, Hesham (*with* Neyama, Atsushi; Umeki, Hiroyuki; Suzuki, Atsuyuki) A novel approach for radionuclide transport in inhomogeneous crystalline rocks using wavelet Galerkin method. (English summary) (*see* **2004h:00019**)
Neittaanmäki, Pekka *see* **Faragó, István et al., 2004a:65127**
Neta, Beny *see* **Givoli, Dan et al., 2004j:65143**
Neyama, Atsushi *see* **Nasif, Hesham et al., (2004h:00019)**
Novák, Josef [1] *see* **Šembera, Jan et al., (2004h:65005)**
Novo, Julia *see* **de Frutos, Javier, 2004b:65148**
Nürnberg, Robert *see* **Barrett, John W.[1] et al., 2004k:65168**
Ober, Curtis C. (*with* Shadid, John N.) Studies on the accuracy of time-integration methods for the radiation-diffusion equations. (English summary)
— *see also* **Ropp, David L. et al.**
Ohlberger, Mario Adaptive mesh refinement for single and two phase flow problems in porous media. (English summary) (*see* **2004k:65005**)
Ohm, Mi Ray *see* **Ahn, Min Jung et al., 2004a:65125**
Pani, Amiya K. *see* **Chung, Sang Kwon, 2004b:65145** *and* **Nair, Pradeepa, (2004j:00016)**
Patlashenko, Igor *see* **Givoli, Dan et al., 2004j:65143**
Peiró, J. *see* **Zienkiewicz, Olgierd C. et al., 2004i:65098**
Pennacchio, Micol The mortar finite element method for the cardiac "bidomain" model of extracellular potential. (English summary) **2004j:65147**
Pinnau, René *see* **Jüngel, Ansgar, 2004f:65150**
Prévost, Marc (*with* Vekemans, Denis) Approximation and prediction of the numerical solution of some Burgers problems. (English summary) **2004m:65154**
Proft, Jennifer *see* **Dawson, Clint, 2004k:65170**
Prohl, Andreas *see* **Feng, Xiaobing, 2004e:65111** *and* **2004f:65149**
Qin, Shu Jie *see* **Sun, Che, 2004c:65116**
Rao, Ming *see* **Liu, Tang et al., 2004a:65131**
Raslan, Kamal R. A computational method for the equal width equation. (English summary)
Raye, J. K. *see* **Banks, H. T., 2004k:65167**
Remacle, Jean-François (*with* Flaherty, Joseph E.; Shephard, Mark S.) An adaptive discontinuous Galerkin technique with an orthogonal basis applied to compressible flow problems. (English summary) **2004k:65176**
— *see also* **Krivodonova, Lilia et al.**
Ren, Chun-feng *see* **He, Yin Nian et al., 2004j:65145**
Rivière, Béatrice (*with* Wheeler, Mary F.) Non conforming methods for transport with nonlinear reaction. (English summary) **2004j:65148**
— (*with* Wheeler, Mary F.) Discontinuous finite element methods for acoustic and elastic wave problems. (English summary) **2004m:65155**
— (*with* Shaw, Simon C.; Wheeler, Mary F.; Whiteman, J. R.) Discontinuous Galerkin finite element methods for linear elasticity and quasistatic linear viscoelasticity. (English summary) **2004h:65101**
Roberts, A. J. Holistic discretisation illuminates and enhances the numerical modelling of differential equations. (English summary) (*see* **2004h:00019**)
Rojas-Medar, Marko A. *see* **Boldrini, José L. et al., 2004j:65141**
Ropp, David L. (*with* Shadid, John N.; Ober, Curtis C.) Studies of the accuracy of time integration methods for reaction-diffusion equations. (English summary)
Russell, Robert D. *see* **Lang, Jens[1] et al., 2004d:65113**
Saibertová, J. *see* **Lukáčová-Medviďová, Mária et al., 2004d:65114**
San Martín H., Jorge (*with* Scheid, Jean-Francois; Takahashi, Takéo; Tucsnak, Marius) Convergence of the Lagrange-Galerkin method for a fluid-rigid system. (English and French summaries)
Savaidis, A. *see* **Zhang, Chuanzeng**
Scheid, Jean-Francois *see* **San Martín H., Jorge et al.**
Schwab, Christoph *see* **Dolejší, Vít et al., 2004f:65147**
Selenge, Ts. *see* **Kim, Mi-Young[2], 2004g:65130**
Šembera, Jan (*with* Maryška, Jiří; Novák, Josef [1]) FEM/FVM modelling of processes in a combustion engine. (English summary) (*see* **2004h:65005**)
Shadid, John N. *see* **Ropp, David L. et al.** *and* **Ober, Curtis C.**
Shankar, Vijaya *see* **Kabakian, Adour V. et al.**
Sharpley, Robert C. *see* **Fadimba, Koffi B., 2004k:65171**
Shaw, Simon C. *see* **Rivière, Béatrice et al., 2004h:65101**
Sheen, Dongwoo *see* **Lee, Chang-Ock[2] et al., 2004a:65130**
Shen, Zhijun *see* **Yuan, Guang Wei et al.**
Shephard, Mark S. *see* **Remacle, Jean-François et al., 2004k:65176**
Sherwin, Spencer J. *see* **Zienkiewicz, Olgierd C. et al., 2004i:65098**
Sheu, Tony W. H. (*with* Lee, Ping-Hang) A theoretical Taylor-Galerkin model for first-order hyperbolic equation. (English summary) **2004d:65115**
Shu, Chi-Wang *see* **Cockburn, Bernardo et al., 2004g:65129** *and* **Zhang, Mengping, 2004i:65097**
da Silva, Arlenes Silvino *see* **Coutinho, Alvaro L. G. A. et al.**
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Stojanović, Mirjana A uniformly accurate finite elements method for singular perturbation problems. (English summary) **2004c:65115**
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Warnecke, Gerald G. *see* **Lukáčová-Medviďová, Mária et al., 2004d:65114** *and* **2004j:65146**
Wenston, Paul *see* **Lai, Ming-Jun et al., 2004i:65096**
Wheeler, Mary F. *see* **Rivière, Béatrice et al., 2004h:65101; 2004j:65148** *and* **2004m:65155**
Whiteman, J. R. *see* **Rivière, Béatrice et al., 2004h:65101**
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Wynne, Shannon *see* **Margolin, Len G. et al., 2004g:65132**
Xie, Zheng Hui *see* **Luo, Zhen Dong et al., 2004c:65113**
Xin, J. *see* **Krivodonova, Lilia et al.**
Yagi, Atsushi *see* **Nakaguchi, Etsushi, 2004c:65114**
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Esposito, Rosa *see* **De Nicola, Sergio et al.**, **2004i:78017**

Ethier, Marc *see* **Bourgault, Yves et al.**, **2004i:92009**

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Formaggia, Luca *see* **Sherwin, Spencer J. et al.**, **2004j:92022** *and* **Ratish Kumar, B. V. et al.**

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Gastaldi, Lucia *see* **Boffi, Daniele, 2004f:76081**
Gavete, Luis (*with* Gavete, M. L.; Alonso, B.; Martín, Angel J.) A posteriori error approximation in EFG method. (English summary) **2004k:65195**
Gavete, M. L. *see* **Gavete, Luis et al., 2004k:65195**
Geldenhuys, J. J. *see* **Zietsman, L. et al., 2004g:74063**
Gerstenberger, Axel *see* **Zhang, Lucy et al.**
Ghattas, Omar *see* **Akçelik, Volkan et al.**
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Glowinski, Roland (*with* He, Jiwen; Lions, Jacques-Louis) On the controllability of wave models with variable coefficients: a numerical investigation. (English summary) **2004g:93023**
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Habashi, Wagdi G. *see* **Remaki, Malika**
Haber, Robert B. *see* **Üngör, Alper et al., 2004h:65096**
Hatgioannides, John *see* **Barone-Adesi, Giovanni et al., 2004b:91087**
Haußer, Frank *see* **Bänsch, Eberhard et al., 2004m:82135**
He, Jiwen *see* **Ciarlet, Patrick, Jr., 2004c:65139** *and* **Glowinski, Roland et al., 2004g:93023**
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Jung, Il Hyo *see* **Park, Jong Yeoul et al., 2004c:35289**
Just, Andrzej Existence theorems and Galerkin approximation for non-linear evolution control problems. (English summary) **2004e:49002**
— *see also* **Dębińska-Nagórska, Anna et al., 2004k:49072**
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Kaltenbacher, Barbara *see* **Ben Ameur, H., 2004b:65140**
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Kim, Hyun Min *see* **Park, Jong Yeoul et al., 2004d:35175**
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Langmach, H. *see* **Gajewski, Herbert et al., (2004d:00011)**
Lapin, A. V. *see* **Glowinski, Roland et al., 2004i:65078**; **Ignat′eva, M. A., 2004m:80015** *and* **Laitinen, Erkki J. et al., (2004e:65003)**
Lapin, S. A. *see* **Glowinski, Roland et al., 2004i:65078**
Larson, Mats G. *see* **Barth, Timothy J., 2004j:65132**
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LeBlanc, Victor G. *see* **Bourgault, Yves et al., 2004i:92009**
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Léorat, J. *see* **Guermond, Jean Luc et al., 2004i:76197**
Le Penven, L. *see* **Le Ribault, C. et al., (2004e:65004)**
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Liu, Ru Xun *see* **Wang, Ji Wen**
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Long, Kevin R. *see* **Akçelik, Volkan et al.**
Lord, Gabriel J. (*with* Rougemont, Jacques) Topological and ε-entropy for large volume limits of discretized parabolic equations. (English summary) **2004a:35107**
Loubère, R. (*with* Ovadia, J.; Abgrall, Rémi) A Lagrangian discontinuous Galerkin-type method on unstructured meshes to solve hydrodynamics problems. (English summary) **2004m:76127**
Lu, Hao[1] *see* **Chen, Zhangxin et al., 2004a:86007**
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Lyons, Stephen L. *see* **Wang, Hong[9] et al., 2004a:76091** *and* **Chen, Zhangxin et al., 2004a:86007**
Ma, He-Ping *see* **Li, Ruo et al., 2004a:49036**
Ma, Yi Chen *see* **Zhang, Yin[2] et al.**
Maday, Yvon *see* **Buffa, Annalisa et al., (2004b:78001)**
Madzvamuse, Anotida (*with* Wathen, Andrew J.; Maini, Philip K.) A moving grid finite element method applied to a model biological pattern genator. (English summary) **2004i:65092**
Maini, Philip K. *see* **Madzvamuse, Anotida et al., 2004i:65092**
Makridakis, Charalambos *see* **Katsaounis, Theodoros, (2004j:00016)**
Málek, Josef *see* **Hron, Jaroslav et al., 2004e:76004**
Malyasov, S. Yu. *see* **Chen, Zhangxin et al., 2004a:86007**
Marrocco, Americo Numerical simulation of chemotactic bacteria aggregation via mixed finite elements. (English summary) **2004i:92003**
Martín, Angel J. *see* **Gavete, Luis et al., 2004k:65195**
Matsumoto, Junichi (*with* Umetsu, T.; Kawahara, Mutsuto) Stabilized bubble function method for shallow water long wave equation. (English summary) **2004g:76091**
Maury, Bertrand Fluid-particle shear flows. (English summary)
van der Merwe, Abraham Johannes *see* **Zietsman, L. et al., 2004g:74063**
Mezine, Mohamed *see* **Abgrall, Rémi, 2004g:76093**
Mikula, Karol Image processing with partial differential equations. (English summary) (*see* **2004d:65006**)
Minev, Peter D. *see* **Guermond, Jean Luc, 2004f:65138**; **Chen, Tong et al., 2004m:76103** *and* **Díaz-Goano, C. et al.**
Moore, Peter K. An incomplete assembly with thresholding algorithm for systems of reaction-diffusion equations in three space dimensions IAT for reaction-diffusion systems. (English summary) **2004e:65106**
Moroşanu, Costică Analysis and optimal control of phase-field transition system. (English summary) **2004i:49051**
Morton, K. W. *see* **Lukáčová-Medviďová, Mária et al., (2004k:65005)**
Nachaoui, Abdeljalil *see* **Chakib, Abdelkrim et al., 2004b:76138** *and* **2004m:76149**
Nair, Pradeepa (*with* Pani, Amiya K.) Finite element methods for parabolic variational inequalities with a Volterra term. (English summary) **2004b:49024**
Nandakumar, K. *see* **Chen, Tong et al., 2004m:76103** *and* **Díaz-Goano, C. et al.**
Nassar, Raja *see* **Dai, Wei-zhong, 2004f:65132**
Nawalany, Marek *see* **Zijl, Wouter**
Nečas, Jindřich *see* **Hron, Jaroslav et al., 2004e:76004**
Nedoma, Jiří Numerical solution of a Stefan-like problem in Bingham rheology. (English summary)
Noelle, Sebastian *see* **Lie, Knut-Andreas et al., (2004e:65004)**
Nore, C. *see* **Guermond, Jean Luc et al., 2004i:76197**
Nürnberg, Reiner *see* **Gajewski, Herbert et al., (2004d:00011)**
Ohm, Mi Ray (*with* Shin, Jun Yong; Lee, Hyun Young) Error analysis of a mixed finite element approximation of a linear Stefan problem. (English summary) **2004g:80014**
— Existence and uniqueness of the solution for linear Stefan problem with a forcing term. (English summary)
— Mixed finite element method for a single phase quasi-linear Stefan problem with a forcing term in non-divergence form. (English summary) **2004d:80007**
Olīskevich, M. O. *see* **Lavrenyuk, S. P., 2004j:35179**

Oñate, Eugenio Multiscale computational analysis in mechanics using finite calculus: an introduction. (English summary) **2004h:74067**
Ovadia, J. *see* **Loubère, R. et al., 2004m:76127**
Pani, Amiya K. *see* **Nair, Pradeepa, 2004b:49024** *and* **Sinha, Rajen K. et al., 2004f:65134**
Park, Jong Yeoul (*with* Bae, Jeong Ja; Jung, Il Hyo) On existence of global solutions for the carrier model with nonlinear damping and source terms. (English summary) **2004c:35289**
— (*with* Kim, Hyun Min; Kim, Joung Ae) Existence and uniform decay of solutions of a degenerate equation with nonlinear boundary damping. (English summary) **2004d:35175**
Parker, Kim H. *see* **Franke, Victoria E. et al., 2004i:92010**
Pascal, Frédéric On combining finite element methods and finite volume methods in computational fluid dynamics. (English summary) (*see* **2004i:00014**)
Peiró, J. *see* **Sherwin, Spencer J. et al., 2004j:92022**
von Petersdorff, T. (*with* Schwab, Christoph) Wavelet discretizations of parabolic integrodifferential equations. (English summary) **2004g:65190**
Picasso, Marco *see* **Burman, Erik et al., 2004m:80014**
Pieskä, J. *see* **Laitinen, Erkki J. et al.,** (**2004e:65003**)
Potapov, Sergueĭ V. A mixed FE-FV algorithm in non-linear solid dynamics. (English summary) (*see* **2004k:65005**)
Price, W. G. *see* **Xing, J. T. et al.**
Qin, Guan *see* **Wang, Hong[9] et al., 2004a:76091**
Qin, Xin Qiang *see* **Zhang, Yin[2] et al.**
Quateroni, Alfio *see* **Ratish Kumar, B. V. et al.**
Quirós Gracián, Fernando *see* **Groisman, Pablo et al., 2004f:65135**
Rajagopal, Kumbakonam R. *see* **Hron, Jaroslav et al., 2004e:76004**
Rapetti, Francesca *see* **Buffa, Annalisa et al.,** (**2004b:78001**)
Ratish Kumar, B. V. (*with* Quateroni, Alfio; Formaggia, Luca; Lamponi, Daniele) On parallel computation of blood flow in human arterial network based on 1-D modelling. (English summary)
Ravindran, S. S. Numerical approximation of optimal control of unsteady flows using SQP and time decomposition. (English summary) **2004m:49092**
Ray, Michael B. *see* **Chen, Zhangxin et al., 2004a:86007**
Raymond, Jean-Pierre *see* **Ben Belgacem, Faker et al., 2004h:35010**
Remaki, Malika (*with* Habashi, Wagdi G.) A discontinuous Galerkin method/HLLC solver for the Euler equations. (English summary)
Ren, Zong Xiu *see* **Wang, Tong Ke**
van Rensburg, N. F. J. *see* **Zietsman, L. et al., 2004g:74063**
Richter, R. H. *see* **Gajewski, Herbert et al.,** (**2004d:00011**)
Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al., 2004d:76068**
Rodríguez Gómez, David *see* **Chacón Rebollo, Tomás, 2004d:86001**
Rohde, Christian *see* **Dedner, Andreas et al.,** (**2004d:00025**)
Rosenbaum, Wolfram *see* **Lie, Knut-Andreas et al.,** (**2004e:65004**)
Rossi, Julio D. *see* **Groisman, Pablo et al., 2004f:65135**
Rougemont, Jacques *see* **Lord, Gabriel J., 2004a:35107**
Sablin, M. N. *see* **Ardelyan, N. V., 2004m:76101**
Santamarina, D. *see* **Bermúdez de Castro, Alfredo et al., 2004d:76068**
Santos, Rafael F. *see* **Liu, Yingjie et al., 2004f:65141**
Saranen, J. *see* **Laitinen, Erkki J. et al.,** (**2004e:65003**)
Saucez, P. *see* **Vande Wouwer, Alain et al., 2004e:65109**
Schiesser, W. E. *see* **Vande Wouwer, Alain et al., 2004e:65109**
Schnitzer, T. *see* **Dedner, Andreas et al.,** (**2004d:00025**)
Schwab, Christoph *see* **von Petersdorff, T., 2004g:65190**
(Schweitzer, Marc Alexander) *see* **Meshfree methods for partial differential equations, 2004d:65005**
Segré, J. *see* **Assous, Franck et al., 2004h:78038**
Sheffer, Alla *see* **Üngör, Alper et al., 2004h:65096**
Sherwin, Spencer J. (*with* Formaggia, Luca; Peiró, J.; Franke, Victoria E.) Computational modelling of 1D blood flow with variable mechanical properties and its application to the simulation of wave propagation in the human arterial system. (English summary) **2004j:92022**
— *see also* **Franke, Victoria E. et al., 2004i:92010**
Sheu, Tony W. H. *see* **Fang, Chao-Ching**
Shin, Jun Yong *see* **Ohm, Mi Ray et al., 2004g:80014**
Shu, Chi-Wang An overview on high order numerical methods for convection dominated PDEs. (English summary) (*see* **2004j:00016**)
— *see also* **Cockburn, Bernardo et al., 2004j:78024**
Sinha, Rajen K. (*with* Pani, Amiya K.; Chung, Sang Kwon) The effect of spatial quadrature on the semidiscrete finite element Galerkin method for a strongly damped wave equation. (English summary) **2004f:65134**
Sofonea, Mircea *see* **Fernández García, José Ramón, 2004m:74091**
Spagnuolo, Anna Maria *see* **Douglas, Jim, Jr. et al., 2004h:76142**
Srinivas, Vinay *see* **Vu-Quoc, L. et al., 2004h:78040**
Steinmann, Paul (*with* Betsch, P.) Constrained mechanical systems. I. A new Galerkin-based time integrator. (English summary) (*see* **2004m:74001**)
Stempień, Zdzisław *see* **Dębińska-Nagórska, Anna et al., 2004k:49072**
Sujatha, K. S. (*with* Webster, M. F.) Modelling three-dimensional rotating flows in cylindrical-shaped vessels. (English summary)
Sun, Jun Hong Finite element methods with moving mesh for contamination by incompressible nuclear waste in porous media. (Chinese. English and Chinese summaries) **2004b:76098**
— Time stepping along characteristics for a Galerkin approximation of miscible displacement problems with point sources and sinks. (Chinese. English and Chinese summaries) **2004d:65104**
— Characteristic finite element methods with moving mesh for the problem of contamination by compressible nuclear waste in porous media. (Chinese. English and Chinese summaries) **2004k:65160**
Sun, Shuyu *see* **Dawson, Clint et al., 2004m:76120**
Sun, Tong *see* **Chen, Zhangxin et al., 2004a:86007**
Sweilam, N. H. (*with* Abd-Elal, L. F.) A computational approach for optimal control systems governed by parabolic variational inequalities. (English summary) **2004h:49051**
Tagami, Daisuke (*with* Itoh, Hajime) A finite element analysis of thermal convection problems with the Joule heat. (English summary) **2004d:76074**
Tang, Tao *see* **Li, Ruo et al., 2004a:49036** *and* (**2004h:00025**)
Tang, Weijun *see* **Bao, Weizhu, 2004g:82064**
Taylor, Charles A. *see* **Vignon, Irene E.**
Teng, Shang-Hua *see* **Üngör, Alper et al., 2004h:65096**
Thiele, Angela *see* **Tobiska, Lutz,** (**2004d:00011**)
Tobiska, Lutz (*with* Thiele, Angela) Numerical simulation of annular chromatography. (English summary) (*see* **2004d:00011**)
Trenogin, V. A. Fixed-point approximations on a family of metric spaces. (Russian) **2004h:47091**
Trujillo, David *see* **Amara, Mohamed et al.**
Tsukerman, Igor Finite element differential-algebraic systems for eddy current problems. (English summary) **2004b:65107**
Umetsu, T. *see* **Matsumoto, Junichi et al., 2004g:76091**
Üngör, Alper (*with* Sheffer, Alla; Haber, Robert B.; Teng, Shang-Hua) Layer based solutions for constrained space-time meshing. (English summary) **2004h:65096**
Van, Tri (*with* Wood, Aihua W.) A time-domain finite element method for Helmholtz equations. (English summary) **2004a:78042**
— (*with* Wood, Aihua W.) A time-marching finite element method for an electromagnetic scattering problem. (English summary) **2004h:78039**
Vande Wouwer, Alain (*with* Saucez, P.; Schiesser, W. E.) Numerical experiments with the moving finite element method. (English summary) **2004e:65109**
Veneziani, Alessandro Block factorized preconditioners for high-order accurate in time approximation of the Navier-Stokes equations. (English summary) **2004b:65046**
Vignon, Irene E. (*with* Taylor, Charles A.) Outflow boundary conditions for one-dimensional finite element modeling of blood flow and pressure waves in arteries. (English summary)
Voigt, Axel *see* **Bänsch, Eberhard et al., 2004m:82135**
Vola, D. (*with* Boscardin, L.; Latché, Jean-Claude) Laminar unsteady flows of Bingham fluids: a numerical strategy and some benchmark results. (English summary) **2004c:76009**
Vu-Quoc, L. (*with* Srinivas, Vinay; Zhai, Y.) Finite element analysis of advanced multilayer capacitors. (English summary) **2004h:78040**
Wang, Hong[9] (*with* Liang, Dong; Ewing, Richard E.; Lyons, Stephen L.; Qin, Guan) An ELLAM approximation for highly compressible multicomponent flows in porous media. (English summary) **2004a:76091**
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— *see also* **Zhang, Lucy et al.**
Warnecke, Gerald G. *see* **Lukáčová-Medviďová, Mária et al.,** (**2004k:65005**)
Wathen, Andrew J. *see* **Madzvamuse, Anotida et al., 2004i:65092**
Webster, M. F. *see* **Sujatha, K. S.**
Wee, Ling Y. *see* **Franke, Victoria E. et al., 2004i:92010**
Wei, Dongming *see* **Kythe, Prem K., 2004h:65001**
Wesenberg, Matthias *see* **Dedner, Andreas et al.,** (**2004d:00025**)
Wheeler, Mary F. *see* **Dawson, Clint et al., 2004m:76120**
Wood, Aihua W. *see* **Van, Tri, 2004a:78042** *and* **2004h:78039**
Wu, Shen R. A priori error estimates for explicit finite element for linear elasto-dynamics by Galerkin method and central difference method. (English summary) **2004j:74051**
Wu, Yu-jiang (*with* Yang, Zhong Hua[1]) On the error estimates of the fully discrete nonlinear Galerkin method with variable modes to Kuramoto-Sivashinsky equation. (English summary) (*see* **2004j:65009**)
Xing, J. T. (*with* Price, W. G.; Chen, Yi Gen) A mixed finite-element finite-difference method for nonlinear fluid-structure interaction dynamics. I. Fluid-rigid structure interaction. (English summary)
Yang, Hongtao *see* **Allegretto, Walter et al., 2004f:65111** *and* (**2004h:00025**)
Yang, Zhong Hua[1] *see* **Wu, Yu-jiang,** (**2004j:65009**)
Yonekawa, K. (*with* Kawahara, Mutsuto) Application of Kalman filter finite element method and AIC. (English summary)
Yu, Xi Jun *see* **Dai, Qing Fang, 2004k:76080**
Zahran, Y. H. Extension of very high order Godunov schemes for nonlinear scalar conservation laws. (English summary) **2004k:65152**
Zhai, Y. *see* **Vu-Quoc, L. et al., 2004h:78040**
Zhang, Lucy (*with* Gerstenberger, Axel; Wang, Xiaodong; Liu, Wing Kam) Immersed finite element method. (English summary)
Zhang, Pan Ming *see* **Liu, Tang**
Zhang, Ping-wen *see* **Li, Ruo et al.,** (**2004h:00025**)
Zhang, Qiang[3] FDSD method and its error estimates for two-phase incompressible miscible flow in porous media. (Chinese. English and Chinese summaries) **2004f:76082**
Zhang, Yin[2] (*with* Qin, Xin Qiang; Ma, Yi Chen) A two-grid scheme for characteristic finite-element solution of a 2D nonlinear convection-dominated diffusion problem. (Chinese. English and Chinese summaries)
Zhang, Zhi Yue The alternating-direction schemes and numerical analysis for the three-dimensional seawater intrusion simulation. (English summary) **2004h:76118**
— An alternating-direction characteristic finite-element method for a three-dimensional semiconductor problem with heat conduction. (Chinese. English and Chinese summaries) **2004a:82105**
Zietsman, L. (*with* van der Merwe, Abraham Johannes; Geldenhuys, J. J.; van Rensburg, N. F. J.) Application of the finite-element method to the vibration of a rectangular plate with elastic support at the boundary. (English summary) **2004g:74063**
Zijl, Wouter (*with* Nawalany, Marek) The edge-based face element method for 3D-stream function and flux calculations in porous media flow. (English summary)

Items listed otherwise than by author

Bonn ★ Meshfree methods for partial differential equations. **2004d:65005**

Meshfree methods for partial differential equations ★ Meshfree methods for partial differential equations. **2004d:65005**

65M70 Spectral, collocation and related methods

Adomaitis, R. A. A reduced-basis discretization method for chemical vapor deposition reactor simulation. (English summary) **2004g:65134**

Badalassi, V. E. (*with* Ceniceros, Hector D.; Banerjee, Sanjoy) Computation of multiphase systems with phase field models. (English summary) **2004j:65149**

Bai, Feng Lan (*with* Yin, Li; Zou, Yong Kui) A pseudo-spectral method for the Cahn-Hilliard equation. (Chinese. English and Chinese summaries) **2004e:65115**

Banerjee, Sanjoy *see* **Badalassi, V. E. et al., 2004j:65149**

Bao, Weizhu (*with* Jin, Shi; Markowich, Peter A.) Numerical L methods for Schrödinger equations. (English summary) (*see* **2004j:65009**)

Bialecki, Bernard (*with* Fernandes, Ryan I.) An orthogonal spline collocation alternating direction implicit method for second-order hyperbolic problems. (English summary) **2004h:65102**

Bihun, O. H. (*with* Luśtyk, Mirosław) Approximation properties of the Lie-algebraic scheme. (English and Russian summaries) **2004k:65179**

Boules, Adel N. (*with* Eick, Ira J.) A spectral approximation of the two-dimensional Burgers' equation. (English summary) **2004a:65134**

Boyd, John Philip A Legendre-pseudospectral method for computing travelling waves with corners (slope discontinuities) in one space dimension with application to Whitham's equation family. (English summary) **2004e:65116**

Boztosun, Dervis *see* **Boztosun, Ismail et al., (2004d:65005)**

Boztosun, Ismail (*with* Charafi, Abdellatif; Boztosun, Dervis) On the numerical solution of linear advection-diffusion equation using compactly supported radial basis functions. (English summary) (*see* **2004d:65005**)

Cao, Qing Jie *see* **Djidjeli, K. et al., 2004i:65100**

Cattani, Carlo (*with* Laserra, Ettore) Spline-wavelets techniques for heat propagation. (English summary) **2004i:65099**

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— Haar wavelets based technique in evolution problems. (English and Estonian summaries) **2004m:65156**

Ceniceros, Hector D. *see* **Badalassi, V. E. et al., 2004j:65149**

Charafi, Abdellatif *see* **Boztosun, Ismail et al., (2004d:65005)**

Chen, Yitung *see* **Li, Jichun, (2004h:65005)**

Cheng, Xiao Liang *see* **Ye, Xing De, 2004d:65118**

Christou, M. A. (*with* Christov, Christo I.) Fourier-Galerkin method for interacting localized waves. (English summary) **2004c:65118**

Christov, Christo I. *see* **Christou, M. A., 2004c:65118**

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Derkach, Stepan The use of the collocation method for solving the diffusion equation under two mass specifications.

Djidjeli, K. (*with* Price, W. G.; Twizell, E. H.; Cao, Qing Jie) A linearized implicit pseudo-spectral method for some model equations: the regularized long wave equations. (English summary) **2004i:65100**

Douglas, Craig C. (*with* Haase, Gundolf; Iskandarani, Mohamed; Reitzinger, Stefan) Special solution strategies inside a spectral element ocean model. (English summary) **2004e:65117**

Eick, Ira J. *see* **Boules, Adel N., 2004a:65134**

El Danaf, Talaat El Sayed Ali Numerical solution of the Korteweg-de Vries Burgers equation by using quintic spline method. (English summary)

Erbay, H. A. *see* **Muslu, G. M.**

Ewing, Richard E. (*with* Liu, Jiang-Guo; Wang, Hong[9]) Adaptive wavelet methods for advection-reaction equations. (English summary) **2004k:65180**

Fernandes, Ryan I. *see* **Bialecki, Bernard, 2004h:65102**

Giraldo, F. X. Strong and weak Lagrange-Galerkin spectral element methods for the shallow water equations. (English summary)

Guermond, Jean Luc (*with* Prudhomme, Serge) Mathematical analysis of a spectral hyperviscosity LES model for the simulation of turbulent flows. (English summary) **2004j:65150**

Guo, Ben Yu (*with* Wang, Zhong-Qing) Modified Chebyshev rational spectral method for the whole line. (English summary) **2004k:65181**

— (*with* Xu, Cheng-Long) Mixed Laguerre-Legendre pseudospectral method for incompressible fluid flow in an infinite strip. (English summary) **2004m:65157**

— *see also* **Xu, Cheng-Long, 2004j:65156**

Guo, Bo Ling (*with* Jiang, Murong) Spectral methods for the GL-BBM equations. (English summary) **2004b:65156**

— *see also* **Shang, Ya Dong, 2004m:65158**

Guo, Jinhua (*with* Taha, Thiab R.) Parallel implementation of the split-step and the pseudospectral methods for solving higher KdV equation. (English summary)

Haase, Gundolf *see* **Douglas, Craig C. et al., 2004e:65117**

Herrmann, Norbert Improved method for solving the heat equation with BEM and collocation. (English summary) **2004k:65182**

Huang, Ming You *see* **Yin, Li et al.**

Hussaini, M. Y. *see* **Sussman, Mark, 2004j:65154**

Ide, Takanori *see* **Ueno, Toshihide et al., 2004g:65137**

Iskandarani, Mohamed *see* **Douglas, Craig C. et al., 2004e:65117**

Iske, Armin Adaptive irregular sampling in meshfree flow simulation. (English summary)

Islas, A. L. (*with* Schober, C. M.) Multisymplectic spectral methods for the Gross-Pitaevskii equation. (English summary) (*see* **2004j:00014**)

Jiang, Murong *see* **Guo, Bo Ling, 2004b:65156**

Jin, Shi *see* **Bao, Weizhu et al., (2004j:65009)**

Jódar, Lucas *see* **Company, R. et al.**

Keast, Patrick *see* **Wang, Rong[1] et al.**

Kim, Arnold D. (*with* Moscoso, Miguel) Chebyshev spectral methods for radiative transfer. (English summary) **2004b:65157**

Laserra, Ettore *see* **Cattani, Carlo et al., 2004i:65099**

Li, Huiyuan (*with* Wu, Hua[2]; Ma, He-Ping) The Legendre Galerkin-Chebyshev collocation method for Burgers-like equations. (English summary) **2004b:65158**

— *see also* **Wu, Hua[2] et al., 2004i:65101**

Li, Jichun (*with* Chen, Yitung) Radial basis function based meshless method for groundwater modeling. (English summary) (*see* **2004h:65005**)

Li, Xue Ping *see* **Tang, Jia Shi et al.**

Li, Yuan Lu *see* **Yuan, Xiu Gui**

Liu, Jiang-Guo *see* **Ewing, Richard E. et al., 2004k:65180**

Liu, Yen *see* **Wang, Zhi Jian[4] et al.**

Liu, Zhu Yong *see* **Tang, Jia Shi et al.**

Lorentz, R. A. (*with* Narcowich, Francis J.; Ward, Joseph D.) Collocation discretizations of the transport equation with radial basis functions. (English summary) **2004f:65156**

Luśtyk, Mirosław *see* **Bihun, O. H., 2004k:65179**

Ma, He-Ping (*with* Sun, Weiwei) A coupled Legendre Petrov-Galerkin and collocation method for the generalized Korteweg-de Vries equations. (English summary) (*see* **2004h:00012**)

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Mampassi, Benjamin (*with* Saley, Bisso; Somé, Blaise) A Chebyshev pseudospectral method for solving some nonlinear reaction-diffusion equations. (English summary) **2004g:65135**

Markowich, Peter A. *see* **Bao, Weizhu et al., (2004j:65009)**

Moscoso, Miguel *see* **Kim, Arnold D., 2004b:65157**

Muir, P. H. *see* **Wang, Rong[1] et al.**

Muslu, G. M. (*with* Erbay, H. A.) A split-step Fourier method for the complex modified Korteweg-de Vries equation. (English summary)

Mustafa, Ghulam *see* **Rashid, Abdur, 2004j:65152**

Naldi, Giovanni (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Spectral methods for one-dimensional kinetic models of granular flows and numerical quasi elastic limit. (English summary) **2004d:65117**

Narcowich, Francis J. *see* **Lorentz, R. A. et al., 2004f:65156**

Okada, Masami *see* **Ueno, Toshihide et al., 2004g:65137**

Pareschi, Lorenzo *see* **Naldi, Giovanni et al., 2004d:65117**

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65M99 None of the above, but in this section

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Fedkiw, Ronald P. *see* **Enright, Doug, (2004j:00016)**
Feng, Xiaobing *see* **Cummings, Peter A., 2004k:65184**
Ferreira-Mejias, K. M. *see* **Lynch, V. E. et al., 2004j:65159**
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Helluy, Philippe *see* **Rouy, Sandra, (2004k:65005)**
Hérard, Jean-Marc *see* **Xeuxet, Emmanuelle et al., (2004k:65005)**
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Lécot, C. *see* **Ogawa, Shigeyoshi**
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Thomée, Vidar *see* **Sheen, Dongwoo et al., 2004b:65161**
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Ewing, Richard E. *see* **Liu, Jiang-Guo et al., (2004h:65005)**
Feigenbaum, Lisa *see* **Ratsch, C. et al.**
Fernández, Miguel Ángel *see* **Deparis, Simone et al., 2004i:74035**
Formaggia, Luca *see* **Deparis, Simone et al., 2004i:74035**
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Gordon, Michael S. *see* **Boumenir, A., 2004m:35143**
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Roselló, M. D. *see* **Cortés López, Juan Carlos et al.**
Rumpf, Martin *see* **Clarenz, Ulrich et al., 2004k:53097**

Sadeghi Goghary, Hossein *see* **Babolian, E.**
Salem, Ghada S. E. *see* **Ismail, Hassan N. A. et al.**
Samec, N. *see* **Škerget, L.**, (**2004k:65004**)
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Sheffler, M. *see* **Ratsch, C. et al.**
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Smereka, Peter *see* **Sethian, James A.**, **2004b:76117**
Soatto, Stefano *see* **Jin, Hailin et al.**, **2004k:65034**
Spiridonova, Margarita *see* **Dimovski, Ivan**, **2004h:65151**
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Thömmes, Guido *see* **Larsen, Edward W. et al.**, **2004c:85004**
Tiee, C. *see* **Ratsch, C. et al.**
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Tret'yakov, Mikhail V. *see* **Mil'shteĭn, G. N.**, **2004c:35192** *and* **2004e:60115**
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Tsai, Yen-Hsi Richard *see* **Jin, Hailin et al.**, **2004k:65034**
Unterreiter, A. *see* **Junk, Michael et al.**, **2004f:85001**
Ushakov, Vladimir N. *see* **Grigor'eva, S. V. et al.**, (**2004d:91002**)
Uspenskiĭ, Aleksandr A. *see* **Grigor'eva, S. V. et al.**, (**2004d:91002**)
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Van Vleck, Erik S. *see* **Elmer, Christopher E.**, **2004d:37135**
Vereecken, Harry *see* **Vamoş, Călin et al.**, **2004h:65010**
Vidrascu, Marina *see* **Gerbeau, Jean-Frédéric**, **2004i:74038**
Wang, Zhongxiao *see* **Liu, Jiang-Guo et al.**, (**2004h:65005**)
Warnecke, Gerald G. *see* **Kunik, Matthias et al.**, **2004h:76124**
Wazwaz, Abdul-Majid An analytic study on the third-order dispersive partial differential equations. (English summary) **2004c:35053**
Wei, Guo Wei *see* **Shao, Zhenhai et al.**, **2004g:78036**
West, Matthew *see* **Lew, Adrian et al.**, **2004a:74021**
Wood, A. S. *see* **Mosally, F. et al.**, **2004c:80020**
Xiao, Shao Ping *see* **Rabczuk, Timon et al.**
Xu, Guo-liang Surface fairing and featuring by mean curvature motions. (English summary) **2004m:65028**
Yezzi, Anthony, Jr. *see* **Jin, Hailin et al.**, **2004k:65034**
Yserentant, Harry The convergence of the finite mass method for flows in given force and velocity fields. (English summary) **2004g:76101**
Zhang, Mengping *see* **Zhang, Qiang[3] et al.**
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Zhao, Shan *see* **Shao, Zhenhai et al.**, **2004g:78036**
Zingsheim, F. *see* **Junk, Michael et al.**, **2004f:85001**

65Nxx Partial differential equations, boundary value problems

Items with secondary classifications in 65Nxx

(Aleksandrov, Lyudmil) *see* **Morton, K. W.**
Angermann, Lutz *see* **Knabner, Peter**, **2004j:65002**
(Carstensen, Carsten) *see* **Computational electromagnetics**, **2004b:78001**
(Farkhi, Leon) *see* **Morton, K. W.**
(Funken, Stefan) *see* **Computational electromagnetics**, **2004b:78001**
(Hackbusch, Wolfgang) *see* **Computational electromagnetics**, **2004b:78001**
(Herbin, Raphaèle) *see* **Finite volumes for complex applications**, **2004e:65004**
(Hoppe, Ronald H. W.) *see* **Computational electromagnetics**, **2004b:78001**
(Iliev, Oleg) *see* **Morton, K. W.**
Knabner, Peter (*with* Angermann, Lutz) ★ Numerical methods for elliptic and parabolic partial differential equations. **2004j:65002**
Knupp, Patrick (*with* Salari, Kambiz) ★ Verification of computer codes in computational science and engineering. **2004e:65002**
(Konstantinov, Mikhail M.) *see* **Morton, K. W.**
(Kröner, Dietmar) *see* **Finite volumes for complex applications**, **2004e:65004**
(Langtangen, Hans Petter) *see* **Advanced topics in computational partial differential equations**, **2004k:65003**
Larsson, Stig (*with* Thomée, Vidar) ★ Partial differential equations with numerical methods. **2004f:65001**
(Margenov, Svetozar D.) *see* **Morton, K. W.**
Mayers, David F. *see* **Morton, K. W.**
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Salari, Kambiz *see* **Knupp, Patrick**, **2004e:65002**
Thomée, Vidar *see* **Larsson, Stig**, **2004f:65001**
(Tveito, Aslak) *see* **Advanced topics in computational partial differential equations**, **2004k:65003**

Items listed otherwise than by author

Advanced topics in computational partial differential equations ★ Advanced topics in computational partial differential equations. **2004k:65003**
Computational electromagnetics ★ Computational electromagnetics. **2004b:78001**
Finite volumes for complex applications ★ Finite volumes for complex applications III. **2004e:65004**
Kiel ★ Computational electromagnetics. **2004b:78001**
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65N06 Finite difference methods

Abd-El-Hafiz, Salwa K. (*with* Ismail, Gamal A. F.; Matit, Berlant S.) A numerical technique for the 3-D Poisson equation. (English summary) **2004f:65158**
Abgrall, Rémi (*with* Mezine, Mohamed) Construction of second-order accurate monotone and stable residual distribution schemes for steady problems. (English summary) **2004m:65168**
Adolph, Torsten *see* **Schönauer, Willi**
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Albuquerque, C. (*with* Cottet, Georges-Henri) Coupling finite difference methods and integral formulas for elliptic problems arising in fluid mechanics. (English summary) **2004m:65169**
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Blanc, Philippe Error estimate for a finite volume scheme on a MAC mesh for the Stokes problem. (English summary) (*see* **2004k:65005**)
Boglaev, Igor On monotone iterative methods for a nonlinear singularly perturbed reaction-diffusion problem. (English summary) **2004m:65170**
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Cottet, Georges-Henri *see* **Albuquerque, C., 2004m:65169**
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Dosiev, Anar A. On the maximum error in the solution of Laplace equation by finite difference method. (English summary) **2004d:65120**
Douglas, Craig C. *see* **Karaa, Samir et al., 2004g:65144**
Douglas, Jim, Jr. *see* **Cai, Zhi Qiang et al., 2004g:65141**
Droniou, Jérôme Error estimates for the convergence of a finite volume discretization of convection-diffusion equations. (English summary) **2004b:65162**
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Dubois, François Petrov-Galerkin finite volumes. (English summary) **2004h:65106**
Dumbrajs, O. (*with* Kalis, Harijs; Reinfelds, Andrejs) Numerical solution of single mode gyrotron equation. (English and Italian summaries) **2004k:65187**
Ewing, Richard E. *see* **Chernogorova, T. P. et al., (2004e:65004)**
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Fang, Qing (*with* Shogenji, Yukihiro; Yamamoto, Tetsuro) Error analysis of adaptive finite difference methods using stretching functions for polar coordinate form of Poisson-type equation. (English summary) **2004g:65143**
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Feng, Mei A uniformly convergent method for a singularly perturbed elliptic-hyperbolic equation. (Chinese. English and Chinese summaries)
Fürst, Jiří (*with* Kozel, Karel) Second and third order weighted ENO scheme on unstructured meshes. (English summary) (*see* **2004e:65004**)
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Gavrilov, A. V. (*with* Gur′eva, Ya. L.; Il′in, Valeriĭ Pavlovich; Itskovich, E. A.) Modeling fields in an axially symmetric medium. (Russian. Russian summary) **2004k:65188**
Gerbi, Stéphane *see* **Cautrès, René et al., (2004e:65003)**
Greguš, Michal, Jr. *see* **Hayryan, Edik A. et al., (2004h:00020)**
Guillaume, Philippe (*with* Latocha, Vladimir) Résolution numérique d'un problème elliptique fortement anisotrope en deux dimensions par une méthode de paramétrisation. (English and French summaries) [Numerical solution of a two-dimensional highly anisotropic elliptic problem by a parametrization method]
Gunzburger, Max D. *see* **Du, Qiang et al., 2004g:65142**
Gur′eva, Ya. L. *see* **Gavrilov, A. V. et al., 2004k:65188**
Hakim, Abdelilah *see* **Al Moatassime, H. et al., (2004k:65005)**
Hayryan, Edik A. (*with* Greguš, Michal, Jr.; Hayryan, Shura A.; Pokorný, Imrich) Parallel realization of the numerical solution of the Poisson-Boltzmann equation. (English summary) (*see* **2004h:00020**)
Hayryan, Shura A. *see* **Hayryan, Edik A. et al., (2004h:00020)**
Hegarty, Alan F. *see* **Ansari, Ali R., 2004g:65139**
Herbin, Raphaèle *see* **Cautrès, René et al., (2004e:65003); (2004e:65003); (2004e:65004); Eymard, Robert et al., (2004k:65005); Gallouët, Thierry et al., (2004k:65005)** *and* **(2004k:65005)**
Hermeline, F. Approximation of diffusion operators with discontinuous tensor coefficients on distorted meshes. (English summary) **2004d:65121**
Hu, Hsin-Yun *see* **Li, Zi-Cai et al., 2004f:65160**
Hubert, Florence *see* **Cautrès, René et al., (2004e:65003)** *and* **(2004e:65004)**
Iliev, Oleg (*with* Tiwari, Sudarshan) A generalized (meshfree) finite difference discretization for elliptic interface problems. (English summary) (*see* **2004j:65007**)
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Il′in, Valeriĭ Pavlovich On exponential finite volume approximations. (English summary) **2004j:65162**
— *see also* **Gavrilov, A. V. et al., 2004k:65188**
Ismail, Gamal A. F. *see* **Abd-El-Hafiz, Salwa K. et al., 2004f:65158**
Itskovich, E. A. *see* **Gavrilov, A. V. et al., 2004k:65188**
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Jayantha, Pasdunkorale A. (*with* Turner, Ian W.) On the use of surface interpolation techniques in generalised finite volume strategies for simulating transport in highly anisotropic porous media. (English summary)
Ju, Lili *see* **Du, Qiang et al., 2004g:65142**
Jullian, Nicolas An error indicator for cell-centered finite volumes for linear convection-diffusion problems. (English summary) (*see* **2004e:65004**)
Kalis, Harijs *see* **Dumbrajs, O. et al., 2004k:65187**
Kang, Ning *see* **Sun, Hai-Wei et al.**
Karaa, Samir (*with* Zhang, Jun[2]; Douglas, Craig C.) Preconditioned multigrid simulation of an axisymmetric laminar diffusion flame. (English summary) **2004g:65144**
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Kim, Kwang Yeon *see* **Chou, So-Hsiang et al., 2004a:65136**
Kim, Seongjai Compact schemes for acoustics in the frequency domain. (English summary) **2004f:65159**
Kopteva, N. V. Error expansion for an upwind scheme applied to a two-dimensional convection-diffusion problem. (English summary) **2004k:65189**
Kozel, Karel *see* **Fürst, Jiří, (2004e:65004)**
Kwak, D. Y. *see* **Chou, So-Hsiang et al., 2004a:65136**
Latocha, Vladimir *see* **Guillaume, Philippe**
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Liang, Dong *see* **Zhao, Wei Dong[1], 2004i:65104**
Liu, Jinn-Liang *see* **Li, Yiming et al., (2004i:00008)**
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Liu, Xu-Dong (*with* Sideris, Thomas C.) Convergence of the ghost fluid method for elliptic equations with interfaces. (English summary) **2004h:65107**
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Ma, Xiuling (*with* Mao, Dong; Zhou, Aihui) Extrapolation for finite volume approximations. (English summary) **2004h:65108**
Magesh, Ramadoss (*with* Rühle, R.) Quadratic reconstruction on arbitrary polygonal grids for 2nd-order conservation laws. (English summary) (*see* **2004e:65004**)
Mahmudova, M. G. On a difference-analytical solution method of Lavrentyev-Bitsadze problem for the equation with two degeneration lines in a doubly-connected mixed domain. (English and Azerbaijani summaries) **2004e:65120**
Maître, Jean-François (*with* Rezgui, Ali; Souhail, Hichan; Zine, Abdel-Malek) High order finite volume schemes. Application to non-linear elasticity problems. (English summary) (*see* **2004e:65004**)
Makridakis, Charalambos *see* **Chatzipantelidis, P. et al., 2004d:65119**
Mao, Dong *see* **Ma, Xiuling et al., 2004h:65108**
Marinova, Rossitza S. *see* **Axelsson, Owe, 2004g:65140**
Martin, Vincent *see* **Jaffré, Jérôme et al., (2004e:65004)**
Matit, Berlant S. *see* **Abd-El-Hafiz, Salwa K. et al., 2004f:65158**
Mezine, Mohamed *see* **Abgrall, Rémi, 2004m:65168**
Milyukova, O. Yu. Parallel versions of the alternating triangular method for solving three-dimensional elliptic equations. (Russian. Russian summary) **2004e:65121**
Mishev, Ilya D. A new mixed finite volume method. (English summary) **2004h:65109**
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Nicaise, Serge *see* **Djadel, K. et al., (2004e:65004)**
Osher, Stanley J. *see* **Tsai, Yen-Hsi Richard et al., 2004m:65171**
Otto, Kurt *see* **Åhlander, Krister, (2004j:00014)**
Park, Moongyu *see* **Cai, Zhi Qiang et al., 2004g:65141**
Pasciak, Joseph E. *see* **Lazarov, Raytcho D. et al., (2004k:65005)**
Plexousakis, M. *see* **Chatzipantelidis, P. et al., 2004d:65119**
Pokorný, Imrich *see* **Hayryan, Edik A. et al., (2004h:00020)**
Rad, Mani (*with* Roe, Philip L.) An Euler code that can compute potential flow. (English summary) (*see* **2004k:65005**)
Raghavan, Jayathi Singular perturbation techniques for boundary layer problems. (English summary) **2004c:65122**
Raghay, S. *see* **Al Moatassime, H. et al., (2004k:65005)**
Reinfelds, Andrejs *see* **Dumbrajs, O. et al., 2004k:65187**
Ren, Wei-qing Higher order string method for finding minimum energy paths. (English summary) **2004d:65122**
Rezgui, Ali *see* **Maître, Jean-François et al., (2004e:65004)**
Roberts, Jean E. *see* **Jaffré, Jérôme et al., (2004e:65004)**
Roe, Philip L. *see* **Rad, Mani, (2004k:65005)**
Rühle, R. *see* **Magesh, Ramadoss, (2004e:65004)**
Rui, Hongxing Superconvergence of a mixed covolume method for elliptic problems. (English summary) **2004j:65163**
Rutka, V. (*with* Wiegmann, A.) A fast finite difference method for elliptic PDEs in domains with non-grid aligned boundaries with application to 3D linear elasticity. (English summary)
Saldanha, Godfrey A finite difference method for self-adjoint elliptic equations in three dimensions. (English summary) **2004h:65110**
Salkuyeh, D. Khojasteh *see* **Kerayechian, A., 2004a:65137**
Schönauer, Willi (*with* Adolph, Torsten) FDEM: how we make the FDM more flexible than the FEM. (English summary)
Sethian, James A. (*with* Vladimirsky, Alexander) Ordered upwind methods for static Hamilton-Jacobi equations: theory and algorithms. (English summary) **2004f:65161**
Sheredina, A. V. On the properties of the stability boundaries of two-dimensional difference schemes. (Russian. Russian summary) **2004h:65111**
Shishkin, Grigorii I. Piecewise-uniform grids, optimal with respect to the order of convergence, for singularly perturbed convection-diffusion equations. (Russian) **2004b:65163**
— Numerical methods on adaptive grids for singularly perturbed elliptic equations in a domain with a curvilinear boundary. (Russian) **2004d:65123**
— Approximation of solutions and derivatives for a singularly perturbed elliptic convection-diffusion equation. (Russian. Russian summary) **2004g:65146**
Shogenji, Yukihiro *see* **Fang, Qing et al., 2004g:65143**
Sideris, Thomas C. *see* **Liu, Xu-Dong, 2004h:65107**
Souhail, Hichan *see* **Maître, Jean-François et al., (2004e:65004)**
Spitaleri, R. M. Numerical insights in the solution of Euler equations of the variational image segmentation. (English summary) **2004e:65122**
Strauber, Györgyi Discrete Crouzeix-Velte decompositions on non-equidistant rectangular grids. **2004f:65162**
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Sukumar, N. (*with* Bolander, J. E.) Numerical computation of discrete differential operators on non-uniform grids. (English summary)
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Sun, Hai-Wei (*with* Kang, Ning; Zhang, Jun[2]; Carlson, Eric S.) A fourth-order compact difference scheme on face centered cubic grids with multigrid method for solving 2D convection diffusion equation. (English summary)
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Szabó, Zsuzsanna Improvement of the accuracy of multi-grid method with finite difference discretization (MGFDD).
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Tabka, J. *see* **Djadel, K. et al.**, (**2004e:65004**)
Tiwari, Sudarshan *see* **Iliev, Oleg**, (**2004j:65007**)
Tolstykh, Andrei I. On multioperators principle for constructing arbitrary-order difference schemes. (English summary) **2004k:65190**
Tsai, Yen-Hsi Richard (*with* Cheng, Li-Tien; Osher, Stanley J.; Zhao, Hong-Kai) Fast sweeping algorithms for a class of Hamilton-Jacobi equations. (English summary) **2004m:65171**
Tsynkov, S. V. On the definition of surface potentials for finite-difference operators. (English summary) **2004c:65123**
Turner, Ian W. *see* **Jayantha, Pasdunkorale A.**
Vassilevski, Panayot S. *see* **Lazarov, Raytcho D. et al.**, (**2004k:65005**)
Vignal, Marie Hélène *see* **Gallouët, Thierry et al.**, (**2004k:65005**)
Vladimirsky, Alexander *see* **Sethian, James A.**, **2004f:65161**
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Yamamoto, Tetsuro *see* **Li, Zi-Cai et al.**, **2004a:65138**; **2004f:65160** *and* **Fang, Qing et al.**, **2004g:65143**
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Zhou, Aihui *see* **Ma, Xiuling et al.**, **2004h:65108**
Zine, Abdel-Malek *see* **Maître, Jean-François et al.**, (**2004e:65004**)

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Adams, Loyce (*with* Li, Zhilin) The immersed interface/multigrid methods for interface problems. (English summary) **2004f:65109**
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Bergam, A. *see* **Afif, M. et al.**
Beyn, Wolf-Jürgen *see* **Du, Wei-Hua**, **2004j:65211**
Bonnans, Joseph Frédéric (*with* Zidani, Housnaa) Consistency of generalized finite difference schemes for the stochastic HJB equation. (English summary) **2004i:49061**
Borzì, Alfio (*with* Kunisch, Karl; Kwak, D. Y.) Accuracy and convergence properties of the finite difference multigrid solution of an optimal control optimality system. (English summary) **2004b:49069**
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Chattot, Jean-Jacques ★ Computational aerodynamics and fluid dynamics. (English summary) **2004d:76077**
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Chavent, Guy *see* **Younes, Anis et al.**
Chenais, Denise (*with* Zuazua, Enrique) Controllability of an elliptic equation and its finite difference approximation by the shape of the domain. (English summary) **2004g:93021**
Dalal, D. C. *see* **Kalita, Jiten C. et al.**, **2004i:74088**
Dass, Anoop K. *see* **Kalita, Jiten C. et al.**, **2004i:74088**
Diao, Xu *see* **Ding, H. et al.**, **2004k:76087**
Ding, H. (*with* Shu, Chang[1]; Yeo, K. S.; Diao, Xu) Development of least-square-based two-dimensional finite-difference schemes and their applications to simulate natural convection in a cavity. (English summary) **2004k:76087**
Doliwa, Adam *see* **Nieszporski, M. et al.**, **2004m:37132**
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Druskin, Vladimir *see* **Asvadurov, Sergey et al.**, **2004e:65138**
Du, Wei-Hua (*with* Beyn, Wolf-Jürgen) The numerical approximation of center manifolds in Hamiltonian systems. (English summary) **2004j:65211**
Essawy, A. H. *see* **Hassanien, I. A. et al.**
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Faille, Isabelle *see* **Saas, Laurent et al.**, **2004h:65131**
Farrell, Paul A. (*with* Hegarty, Alan F.; Miller, John J. H.; O'Riordan, Eugene; Shishkin, Grigorii I.) Numerical techniques for flow problems with singularities. (English summary) **2004j:76108**
Fattebert, Jean-Luc (*with* Buongiorno Nardelli, Marco) Finite difference methods for ab initio electronic structure and quantum transport calculations of nanostructures.
Gallouët, Thierry *see* **Droniou, Jérôme**, (**2004e:65004**) *and* **Angot, Philippe et al.**, (**2004k:65005**)
Garcia, Salvador Incremental unknowns and graph techniques in three space dimensions. (English summary) **2004b:65171**
Gol'din, V. D. *see* **Zverev, V. G.**, **2004c:80019**
Gryazin, Yu. A. (*with* Klibanov, Michael V.; Lucas, Thomas R.) Two numerical methods for an inverse problem for the 2-D Helmholtz equation. (English summary) **2004a:65140**
Guddati, Murthy N. *see* **Asvadurov, Sergey et al.**, **2004e:65138**
Hassanien, I. A. (*with* Essawy, A. H.; Moursy, N. M.) Variable viscosity and thermal conductivity effects on combined heat and mass transfer in mixed convection over a UHF/UMF wedge in porous media: the entire regime. (English summary)
Hataue, Itaru On analogy and dissimilarity of dependence of stability on several parameters in flow simulations. (English summary)
Hegarty, Alan F. *see* **Farrell, Paul A. et al.**, **2004j:76108**
Herbin, Raphaèle *see* **Angot, Philippe et al.**, (**2004k:65005**)
Hiptmair, Ralf (*with* Schädle, A.) Non-reflecting boundary conditions for Maxwell's equations. (English summary) **2004k:78017**
Hwang, Tsung-Min *see* **Wang, Weichung et al.**, **2004m:82151**
Imai, Hitoshi *see* **Takeuchi, Toshiki**, **2004m:65176**
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Kalita, Jiten C. (*with* Dass, Anoop K.; Dalal, D. C.) A transformation-free HOC scheme for steady convection-diffusion on non-uniform grids. (English summary) **2004i:74088**
Kaszkurewicz, Eugenius *see* **Schaerer, Christian E. et al.**
Keyes, David E. *see* **Cai, Xiao-Chuan et al.**, (**2004e:65003**)
Klibanov, Michael V. *see* **Gryazin, Yu. A. et al.**, **2004a:65140**
Knizhnerman, Leonid *see* **Asvadurov, Sergey et al.**, **2004e:65138**
Kunisch, Karl *see* **Borzì, Alfio et al.**, **2004b:49069**
Kwak, D. Y. *see* **Borzì, Alfio et al.**, **2004b:49069**
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— *see also* **Chatzipantelidis, P.**, (**2004e:65004**)
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Li, Zhilin *see* **Adams, Loyce**, **2004f:65109**; **Yang, Xingzhou et al.**, **2004i:74109** *and* **Ito, Kazufumi**
Liandrat, Jacques *see* **Piquemal, Anne-Sophie**, **2004d:65131**
Lin, Wen-Wei *see* **Wang, Weichung et al.**, **2004m:82151**
Liu, Jinn-Liang *see* **Wang, Weichung et al.**, **2004m:82151**
Lucas, Thomas R. *see* **Gryazin, Yu. A. et al.**, **2004a:65140**
Maĭorova, M. E. On the convergence of an explicit difference scheme to the weak solution of a variational inequality with double degeneration. (Russian. Russian summary) **2004f:65084**
Mancera, P. F. A. A study of a numerical solution of the steady two dimensions Navier-Stokes equations in a constricted channel problem by a compact fourth order method. (English summary) **2004g:76095**
Mangiavacchi, N. *see* **Schaerer, Christian E. et al.**
Mattheij, R. M. M. *see* **Anthonissen, M. J. H. et al.**, **2004i:65111**
Mghazli, Z. *see* **Afif, M. et al.**
Miller, John J. H. (*with* Musgrave, Alison P.; Shishkin, Grigorii I.) A Reynolds-uniform numerical method for the Prandtl solution and its derivatives for stagnation line flow. (English summary) **2004j:76111**
— *see also* **Farrell, Paul A. et al.**, **2004j:76108**
Morinishi, Koji Gridless type solver—generalized finite difference method. (English summary) (*see* **2004d:76003**)
Moursy, N. M. *see* **Hassanien, I. A. et al.**
Munerato, F. P. *see* **Schleicher, J. et al.**
Musgrave, Alison P. *see* **Miller, John J. H. et al.**, **2004j:76111**
Nataf, Frédéric *see* **Saas, Laurent et al.**, **2004h:65131**
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65N12 Stability and convergence of numerical methods

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Chen, Zhangxin *see* **Chen, Hongsen**, **2004j:65165**
Cui, Jun Zhi *see* **He, Wen Ming et al.**, **2004i:65106**
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He, Wen Ming (*with* Cui, Jun Zhi; Zhu, Qi-ding) An improved method for superconvergence and extrapolation. (Chinese. English summary) **2004i:65106**
Herbin, Raphaèle *see* **Gallouët, Thierry** *and* **Angot, Philippe et al.**, (**2004k:65005**)
Karageorghis, Andreas *see* **Smyrlis, Yiorgos-Sokratis**, **2004m:65173**
Křížek, Michal *see* **Brandts, Jan H.**, **2004i:65105**
Lazarov, Raytcho D. *see* **Chatzipantelidis, P.**, (**2004e:65004**)
Lin, Runchang *see* **Zhang, Zhimin**, **2004k:65192**
Maharavo Randrianarivony, H. *see* **Apel, Thomas**
Marini, Luisa Donatella *see* **Brezzi, Franco et al.**, **2004f:65163**
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Nicholls, David P. (*with* Reitich, Fernando) Analytic continuation of Dirichlet-Neumann operators. (English summary) **2004b:65164**
Reitich, Fernando *see* **Nicholls, David P.**, **2004b:65164**
Robinson, Allen C. *see* **Bochev, Pavel B.**
Sangalli, Giancarlo *see* **Brezzi, Franco et al.**, **2004f:65163**
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Schneider, Claus Stability of qualocation methods for elliptic boundary integral equations. (English summary) **2004m:65172**
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Deng, Qingping A nonoverlapping domain decomposition method for nonconforming finite element problems. (English summary) **2004f:65208**
Díez, Pedro *see* **Fernández-Méndez, Sonia et al., 2004m:65193**
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Gatica, Luis F. *see* **Barrios, Tomás P. et al., 2004j:65180**
Ghadi, Fattehallah *see* **Ruas, Vitoriano et al.**
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Herbin, Raphaèle *see* **Eymard, Robert et al.**, (**2004k:65005**) *and* **Gallouët, Thierry**, (**2004k:65005**)
Hou, Thomas Y. *see* **Chen, Zhi Ming[1], 2004a:65147**
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Kalis, Harijs *see* **Dumbrajs, O. et al., 2004k:65187**
Kim, Do Wan (*with* Kim, Yongsik) Point collocation methods using the fast moving least-square reproducing kernel approximation. (English summary) **2004b:65198**
Kim, Seongjai Compact schemes for acoustics in the frequency domain. (English summary) **2004f:65159**
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Koyama, Daisuke *see* **Nasir, H. M. et al., 2004e:65133**
Kunisch, Karl *see* **Borzì, Alfio et al., 2004b:49069** *and* **Ito, Kazufumi et al., 2004i:49011**
Kwak, D. Y. *see* **Borzì, Alfio et al., 2004b:49069**
Lam, Kwok-Yan *see* **Li, Hua[4] et al., 2004m:65209**
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Liu, Xu-Dong (*with* Sideris, Thomas C.) Convergence of the ghost fluid method for elliptic equations with interfaces. (English summary) **2004h:65107**
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Ma, He-Ping *see* **Huang, Wei Zhang[1] et al., 2004k:65234**
Ma, Jing Tang *see* **Zeng, Jin Ping et al., (2004j:65009)**
Marini, Luisa Donatella *see* **Brezzi, Franco, (2004d:65003)**
Marinova, Rossitza S. *see* **Axelsson, Owe, 2004g:65140**
Matzner, Richard A. *see* **Hawley, Scott H., 2004m:83006**
Meddahi, Salim (*with* Selgas, Virginia) A mixed-FEM and BEM coupling for a three-dimensional eddy current problem. (English summary) **2004f:78007**
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Mishev, Ilya D. A new mixed finite volume method. (English summary) **2004h:65109**
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Monk, Peter A simple proof of convergence for an edge element discretization of Maxwell's equations. (English summary) **2004i:78024**
Namm, R. V. *see* **Zolotukhin, A. Ya. et al., 2004f:65198**
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Nesliturk, Ali (*with* Harari, Isaac) The nearly optimal Petrov-Galerkin method for convection-diffusion problems. (English summary) **2004c:65146**
Ng, T. Y. *see* **Li, Hua[4] et al., 2004m:65209**
Nochetto, Ricardo H. *see* **Girault, Vivette et al.**
Pachina, A. V. *see* **Zolotukhin, A. Ya. et al., 2004f:65198**
Park, Chunjae (*with* Sheen, Dongwoo) P_1-nonconforming quadrilateral finite element methods for second-order elliptic problems. (English summary) **2004i:65125**
Peichl, Gunther *see* **Ito, Kazufumi et al., 2004i:49011**
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Reinfelds, Andrejs *see* **Dumbrajs, O. et al., 2004k:65187**
Rivière, Béatrice *see* **Bastian, Peter, 2004f:65177**
Roe, Philip L. *see* **Abgrall, Rémi, 2004m:65185**
Rogers, Robert C. *see* **Lin, Tao[1] et al., (2004h:00025)**
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Rui, Hongxing Superconvergence of a mixed covolume method for elliptic problems. (English summary) **2004j:65163**
Ryan, M. Lynne *see* **Lin, Tao[1] et al., (2004h:00025)**
Salaün, Michel *see* **Dubois, François et al., 2004i:76141**
Salmon, Stéphanie *see* **Dubois, François et al., 2004i:76141**
Schwab, Christoph *see* **Toselli, Andrea, 2004f:65196**
Scott, Larkin Ridgway *see* **Girault, Vivette et al.**
Segeth, Karel *see* **Šolín, Pavel et al., 2004h:65004**
Selgas, Virginia *see* **Meddahi, Salim, 2004f:78007**
Sethian, James A. (*with* Vladimirsky, Alexander) Ordered upwind methods for static Hamilton-Jacobi equations: theory and algorithms. (English summary) **2004f:65161**
Shan, Gui Hua *see* **Zhou, Shu Zi et al., 2004f:65211**
Sheen, Dongwoo *see* **Park, Chunjae, 2004i:65125**
Shen, Jian[1] *see* **Ewing, Richard E. et al., (2004h:00025)**
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65N15 Error bounds

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Lin, Runchang *see* **Zhang, Zhimin, 2004k:65192**
Lin, Wei[1] *see* **Shen, Youjian, 2004m:74051**
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Makridakis, Charalambos *see* **Chatzipantelidis, P. et al., 2004d:65119**
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Perotto, Simona *see* **Formaggia, Luca et al., 2004a:65150** *and* **Micheletti, Stefano et al., 2004g:65157**
Petzoldt, Martin *see* **Fuhrmann, Jürgen, (2004d:00011)**
Picasso, Marco *see* **Micheletti, Stefano et al., 2004g:65157**
Pinchedez, Katia *see* **Ainsworth, Mark, 2004d:65137**
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Rappaz, Jacques *see* **Glowinski, Roland, 2004e:86022**
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Shogenji, Yukihiro *see* **Fang, Qing et al.**, **2004g:65143**
Sideris, Thomas C. *see* **Liu, Xu-Dong**, **2004h:65107**
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Tait, Robert *see* **He, Yin Nian et al.**, **2004d:65141**
Tobiska, Lutz *see* **Stynes, Martin**, **2004j:65193**
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Westermann, Tim *see* **Oden, J. Tinsley et al.**, **2004f:65174**
Wieners, Christian *see* **Plum, Michael**, **2004i:65126**
Winther, Ragnar *see* **Arnold, Douglas N.**, **2004f:65176**
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Xu, Xue Jun *see* **Chen, Jinru**, (**2004e:65003**)
Yamamoto, Tetsuro *see* **Fang, Qing et al.**, **2004g:65143**
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Zhu, Qi-ding *see* **He, Wen Ming et al.**, **2004i:65106**
Zikatanov, Ludmil T. *see* **Xu, Jinchao**, **2004a:65160**
Zunino, Paolo *see* **Formaggia, Luca et al.**, **2004a:65150**

65N21 Inverse problems

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Ito, Kazufumi *see* **Fang, Weifu**, **2004h:65113**
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Mirasyedioğlu, Şeref *see* **Güyer, Tolga**, **2004k:65198**
Mühlhuber, Wolfram *see* **Burger, Martin**, **2004b:65170**
Neubauer, Andreas *see* **Kindermann, Stefan**, **2004m:65175**
Ohura, Yoko *see* **Hayashi, Keisuke et al.**, **2004f:65167**
Onishi, Kazuei *see* **Hayashi, Keisuke et al.**, **2004f:65167**
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Vabishchevich, Petr N. Numerical solution of the problem of identifying the lowest coefficient of an elliptic equation. (Russian. Russian summary) **2004j:65172**
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Yuan, Ya Xiang *see* **Wang, Yan Fei**, **2004i:65109**

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Tang, Tao *see* **Huang, Yun Qing et al., 2004k:65206**

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Ying, Lexing *see* **Biros, George et al.**

Young, David P. *see* **Cai, Xiao-Chuan et al., (2004e:65003)**

Yousif, W. S. *see* **Martins, M. Madalena et al., 2004b:65172**

Zorin, Denis *see* **Biros, George et al.**

Zulehner, Walter *see* **Schöberl, Joachim, 2004g:65149**

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Ito, Kazufumi *see* **Deng, Shaozhong et al., 2004b:65200**

Itskovich, E. A. *see* **Gavrilov, A. V. et al., 2004k:65188**

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McCormick, Stephen F. *see* **Chartier, Timothy P. et al., 2004m:65036** *and* **Lee, Barry et al., 2004m:65214**

McLean, William *see* **Ainsworth, Mark, 2004i:65130**

Melenk, J. M. *see* **Khoromskiĭ, B. N., 2004b:65185**

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Ng, Michael K. (*with* Bai, Zhong-Zhi) A hybrid preconditioner of banded matrix approximation and alternating direction implicit iteration for symmetric sinc-Galerkin linear systems. (English summary) **2004e:65038**
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Parashkevov, R. R. *see* **Cai, Zhi Qiang et al., 2004a:65172**
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Pozrikidis, C. *see* **Li, Xiaofan, 2004f:76109**
Pusch, D. *see* **Langer, Ulrich[1] et al., 2004j:65199**
Quinlan, Daniel J. *see* **Lee, Barry et al., 2004m:65214**
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Recchioni, Maria Cristina (*with* Zirilli, Francesco) The use of wavelets in the operator expansion method for time-dependent acoustic obstacle scattering. (English summary) **2004m:76139**
Reitzinger, Stefan *see* **Haase, Gundolf et al., 2004b:65220** *and* **Langer, Ulrich[1] et al., 2004j:65199**
Ribbens, Calvin J. *see* **Mateescu, Gabriel et al., 2004a:65040**
Rossi, Tuomo *see* **Heikkola, Erkki et al., 2004a:65152** *and* **2004h:76135**
Ruge, J. W. *see* **Chartier, Timothy P. et al., 2004m:65036**
Russell, Thomas F. *see* **Cai, Zhi Qiang et al., 2004a:65172**
Saad, Youcef Finding exact and approximate block structures for ILU preconditioning. (English summary) **2004b:65044**
— *see also* **Little, Leigh, 2004k:65054**
Salkuyeh, D. Khojasteh *see* **Kerayechian, A., 2004a:65137**
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Silvester, David J. *see* **Syamsudhuha, 2004i:76144** *and* **Powell, Catherine**
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Urban, Karsten *see* **Dahlke, Stephan et al., 2004g:42039**
Vasseur, Xavier *see* **Toselli, Andrea, 2004h:65124**
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Wittum, Gabriel *see* **Khoromskiĭ, B. N., 2004m:65002**
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Zenger, Christoph *see* **Achatz, Stefan, (2004j:65005)**
Zhang, Jun[2] *see* **Karaa, Samir, 2004m:65040**
Zikatanov, Ludmil T. *see* **Xu, Jinchao, (2004d:65005)**
Zirilli, Francesco *see* **Recchioni, Maria Cristina, 2004m:76139**
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65N25 Eigenvalue problems

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Bass, Jon *see* **Oden, J. Tinsley et al., 2004f:65174**
Bognár, Gabriella (*with* Szabó, Tamás[2]) Solving nonlinear eigenvalue problems by using *p*-version of FEM. (English summary) **2004i:65117**
Botkin, Mark E. *see* **Oden, J. Tinsley et al., 2004f:65174**
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Cheng, Pan *see* **Wang, Qian Dong et al.**
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Heuveline, Vincent On the computation of a very large number of eigenvalues for selfadjoint elliptic operators by means of multigrid methods. (English summary) **2004a:65146**
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Larin, Maxim On a multigrid eigensolver for linear elasticity problems. (English summary) (*see* **2004j:65007**)
Lü, Tao *see* **Wang, Qian Dong et al.** *and* **Hu, Chao Lang et al.**
Nakao, Mitsuhiro T. *see* **Toyonaga, K. et al., 2004f:65175**
Neymeyr, Klaus *see* **Knyazev, Andreĭ Vladimirovich, 2004g:65150**
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Padra, Claudio *see* **Durán, Ricardo G. et al., 2004f:65173**
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Racheva, Milena R. *see* **Andreev, A. B., (2004j:65007)**
Reichel, Wolfgang *see* **Brown, B. Malcolm, 2004a:65145**
Rodríguez, Rodolfo *see* **Hernández, Erwin, 2004c:65136** *and* **Durán, Ricardo G. et al., 2004f:65173**
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Van Keer, Roger *see* **De Schepper, Hennie, 2004m:65183**
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Zhou, Aihui *see* **Xu, Jinchao, 2004m:65184**
Zou, Jun *see* **Chung, Eric T., 2004e:65126**

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— *see also* **Boffi, Daniele et al.**, **2004j:65181**

Dauge, Monique *see* **Costabel, Martin**, **2004k:78026**

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Hwang, Tsung-Min *see* **Wang, Weichung et al.**, **2004m:82151**

Lepore, Natasha *see* **Cohen, Doron et al.**

Lin, Qun[1] High performance finite element methods. (English summary) **2004m:65200**

Lin, Wen-Wei *see* **Wang, Weichung et al.**, **2004m:82151**

Liu, Jinn-Liang *see* **Wang, Weichung et al.**, **2004m:82151**

Makarov, I. L. *see* **Bandyrskiĭ, B. Ĭ. et al.**, **2004c:35037**

Makarov, Vladimir L. *see* **Bandyrskiĭ, B. Ĭ. et al.**, **2004c:35037**

van der Merwe, Abraham Johannes *see* **Zietsman, L. et al.**, **2004j:74077**

van Rensburg, N. F. J. *see* **Zietsman, L. et al.**, **2004j:74077**

Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al.**, **2004f:74087**

Rudge, M. R. H. A comparison between R-matrix and variational procedures. (English summary) **2004a:81248**

Schmidt, Frank[2] *see* **Deuflhard, Peter et al.**, (**2004d:00011**)

Voss, Heinrich Modal masters and component mode method. (English summary) (*see* **2004h:93004**)

Wang, Weichung (*with* Hwang, Tsung-Min; Lin, Wen-Wei; Liu, Jinn-Liang) Numerical methods for semiconductor heterostructures with band nonparabolicity. (English summary) **2004m:82151**

Xu, Jinchao (*with* Zhou, Aihui) Some multiscale methods for partial differential equations. (English summary) **2004a:65175**

Ying, Long An *see* **Zheng, Wei Ying et al.**

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Zietsman, L. (*with* van Rensburg, N. F. J.; van der Merwe, Abraham Johannes) A Timoshenko beam with tip body and boundary damping. (English summary) **2004j:74077**

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65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

Abgrall, Rémi (*with* Roe, Philip L.) High order fluctuation schemes on triangular meshes. (English summary) **2004m:65185**

Achatz, Stefan (*with* Zenger, Christoph) Higher order sparse grid methods for elliptic partial differential equations. (English summary) (*see* **2004j:65005**)

— Higher order sparse grid methods for elliptic partial differential equations with variable coefficients. (English summary) **2004h:65114**

Achchab, Boujemaa (*with* Achchab, Said; Axelsson, Owe; Souissi, A.) Upper bound of the constant in strengthened C.B.S. inequality for systems of linear partial differential equations. (English summary) **2004d:65136**

Achchab, Said *see* **Achchab, Boujemaa et al.**, **2004d:65136**

Ackerer, Philippe *see* **Younes, Anis et al.**

Actis, R. L. (*with* Szabó, B. A.) Analysis of bonded and fastened repairs by the p-version of the finite element method. (English summary)

Agouzal, Abdellatif (*with* Debit, N.) Discontinuous hybrid formulation turned to domain decomposition. (*see* **2004e:65003**)

— (*with* Allali, Karam) Local problem error estimator for nonconforming finite elements approximations. (English summary) **2004j:65177**

Ainsworth, Mark (*with* Pinchedez, Katia) hp-approximation theory for BDFM and RT finite elements on quadrilaterals. (English summary) **2004d:65137**

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Alduncin, Gonzalo (*with* Vera-Guzmán, Norberto) Parallel proximal-point algorithms for mixed finite element models of flow in the subsurface. (English summary)

Allali, Karam *see* **Agouzal, Abdellatif**, **2004j:65177**

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Almeida, Regina C. *see* **Galeão, A. C. et al.**, **2004k:65219**

Alvarez, Gustavo Benitez *see* **Dutra do Carmo, Eduardo Gomes**, **2004f:65182**

Angermann, Lutz (*with* Wang, Song[1]) Three-dimensional exponentially fitted conforming tetrahedral finite elements for the semiconductor continuity equations. (English summary) **2004d:65138**

Arnold, Douglas N. Differential complexes and numerical stability. (English summary) **2004h:65115**

— (*with* Winther, Ragnar) Mixed finite elements for elasticity in the stress-displacement formulation. (English summary) (*see* **2004h:65005**)

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Atluri, S. N. (*with* Han, Z. D.; Shen, Shengping) Meshless local Petrov-Galerkin (MLPG) approaches for solving the weakly-singular traction & displacement boundary integral equations. (English summary)

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Auteri, F. (*with* Parolini, N.; Quartapelle, Luigi) Essential imposition of Neumann condition in Galerkin-Legendre elliptic solvers. (English summary) **2004b:65173**

Axelsson, Owe (*with* Blaheta, Radim) Two simple derivations of universal bounds for the C.B.S. inequality constant. (English summary) **2004k:65210**

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Babuška, Ivo (*with* Banerjee, Uday; Osborn, John E.) Meshless and generalized finite element methods: a survey of some major results. (English summary) **2004h:65116**

— (*with* Gatica, Gabriel N.) On the mixed finite element method with Lagrange multipliers. (English summary) **2004b:65174**

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Bae, Hyeong-Ohk (*with* Kim, Do Wan) Finite element approximations for the Stokes equations on curved domains, and their errors. (English summary) **2004j:65179**

Bai, Yong-Qiang (*with* Liu, Zhen; Pei, Ming; Zheng, Zhu-Jun) Multisymplectic structure-preserving in simple finite element method in high dimensional case. (English summary) **2004m:65186**

Banerjee, Uday *see* **Babuška, Ivo et al.**, **2004h:65116**

Bänsch, Eberhard (*with* Morin, Pedro; Nochetto, Ricardo H.) An adaptive Uzawa FEM for the Stokes problem: convergence without the inf-sup condition. (English summary) **2004e:65127**

Bao, Weizhu Error bounds for the finite-element approximation of the exterior Stokes equations in two dimensions. (English summary) **2004c:65137**

Baranova, T. A. (*with* Litvin, O. N.) On the construction of the structure of an approximate solution in the optimal finite element method for polygonal domains. (Ukrainian. English summary)

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Barrios, Tomás P. (*with* Gatica, Gabriel N.; Gatica, Luis F.) On the numerical analysis of a nonlinear elliptic problem via mixed-FEM and Lagrange multipliers. (English summary) **2004j:65180**

Bastian, Peter (*with* Rivière, Béatrice) Superconvergence and $H(\mathrm{div})$ projection for discontinuous Galerkin methods. (English summary) **2004f:65177**

Beauwens, Robert Forgivable variational crimes. (English summary) (*see* **2004j:65007**)

Bebendorf, Mario (*with* Hackbusch, Wolfgang) Existence of $\mathscr{H}$-matrix approximants to the inverse FE-matrix of elliptic operators with L^∞-coefficients. (English summary) **2004e:65128**

Becker, Roland (*with* Hansbo, Peter; Stenberg, Rolf) A finite element method for domain decomposition with non-matching grids. (English summary) **2004e:65129**

Bělík, Pavel (*with* Luskin, Mitchell) Approximation by piecewise constant functions in a BV metric. (English summary) **2004f:65178**

Ben Belgacem, Faker (*with* Chilton, Lawrence K.; Seshaiyer, Padmanabhan) The hp-mortar finite-element method for the mixed elasticity and Stokes problems. (English summary)

— (*with* Renard, Yves) Hybrid finite element methods for the Signorini problem. (English summary) **2004d:65139**

Bernardi, Christine (*with* Hecht, Frédéric) Error indicators for the mortar finite element discretization of the Laplace equation. (English summary) **2004b:65175**

Bertoluzza, Silvia (*with* Piquemal, Anne-Sophie) The wavelet Mortar method in the adaptative framework. (English and French summaries)

Bespalov, A. Yu. Orthogonal systems of singular functions and numerical treatment of problems with degeneration of data. (English summary) **2004f:65179**

Bettess, Peter *see* **Sugimoto, Rie**

Binev, Petăr G. (*with* Dahmen, Wolfgang; DeVore, Ronald A.; Petrushev, Pencho) Approximation classes for adaptive methods. (English summary) **2004b:65176**

Blaheta, Radim *see* **Axelsson, Owe**, **2004k:65210**

Boffi, Daniele (*with* Demkowicz, Leszek; Costabel, Martin) Discrete compactness for p and hp 2D edge finite elements. (English summary) **2004j:65181**

Boillat, Eric Finite element methods on non-conforming grids by penalizing the matching constraint. (English summary) **2004e:65130**

Bolvin, Hervé *see* **Chambarel, André**, (**2004j:00012**)

Bondeson, A. *see* **Ingelström, P.**, **2004f:65186**

Borysiewicz, Mieczysław Generalized variational framework for analysis of local projectional methods solving linear equations of particle transport. (English summary)

Bouillault, F. (*with* Buffa, Annalisa; Maday, Yvon; Rapetti, Francesca) The mortar edge element method in three dimensions: application to magnetostatics. (English summary) **2004g:65151**

Boulbrachene, M. L^∞-error estimate for a system of elliptic quasi-variational inequalities with noncoercive operators. (English summary) **2004h:65117**

Braess, Dietrich (*with* Carstensen, Carsten; Reddy, B. D.) Uniform convergence and a posteriori error estimators for the enhanced strain finite element method. (English summary) **2004k:65211**

Brahmi, A. *see* **Manouzi, H. et al.**, **2004i:65123**

Bramble, James H. Multilevel methods in finite elements. (English summary)

Brandts, Jan H. (*with* Stevenson, Rob) A stable and optimal complexity solution method

for mixed finite element discretizations. (English summary) **2004f:65180**

Brenner, Susanne C. Poincaré-Friedrichs inequalities for piecewise H^1 functions. (English summary) **2004d:65140**

Brezzi, Franco (*with* Marini, Luisa Donatella) Implementation of the stabilized three-field formulation. (English summary) (*see* **2004h:65007**)

— Recent results in the treatment of subgrid scales. (English and French summaries) (*see* **2004h:65006**)

Buczkowski, Ryszard (*with* Gabbert, Ulrich) 28-noded hexahedral isoparametric element for analysis of contact problems. (English summary)

Buffa, Annalisa *see* **Bouillault, F. et al., 2004g:65151**

Bulgakov, V. K. (*with* Potapov, I. I.) Comparative analysis of second-order finite-element approximations for the Stokes problem. (Russian. Russian summary) **2004b:65177**

— (*with* Potapov, I. I.) Higher-order upwind finite-element schemes for the heat transfer problem. (Russian. Russian summary) **2004m:65187**

Burda, Pavel (*with* Novotný, Jaroslav; Sousedík, Bedřich) A posteriori error estimates applied to flow in a channel with corners. (English summary)

Burman, Erik (*with* Ern, Alexandre) Discrete maximum principle for Galerkin approximations of the Laplace operator on arbitrary meshes. (English and French summaries)

Calvo, Begonia *see* **Cueto, E. et al., 2004m:65190**

Calvo, Nestor *see* **Idelsohn, Sergio R. et al.**

Carey, Graham F. *see* **Chow, S.-S., 2004k:65216**

Carstensen, Carsten (*with* Sauter, Stefan A.) A posteriori error analysis for elliptic PDEs on domains with complicated structures. (English summary) **2004k:65212**

— *see also* **Braess, Dietrich et al., 2004k:65211**

Castillo, Paul A superconvergence result for discontinuous Galerkin methods applied to elliptic problems. (English summary) **2004k:65213**

Cegoñino, J. *see* **Cueto, E. et al., 2004m:65190**

Cessenat, Olivier (*with* Després, Bruno) Using plane waves as base functions for solving time harmonic equations with the ultra weak variational formulation. (English summary) **2004j:65182**

Chambarel, André (*with* Bolvin, Hervé) Simulation of a compressible flow by the finite element method using a general parallel computing approach. (English summary) (*see* **2004j:00012**)

Chamoin, L. *see* **Prudhomme, Serge et al., 2004m:65201**

Chavent, Guy *see* **Younes, Anis et al.**

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— Symmetric point structure of superconvergence for cubic triangular elements—a consultation with Q.-D. Zhu. Comment on: "Superconvergence analysis for cubic triangular element of the finite element" [J. Comput. Math. **18** (2000), no. 5, 541–550]. (English summary) **2004j:65183**

— Superconvergence for rectangular serendipity finite elements. (English summary) **2004c:65138**

Chen, Hongsen (*with* Chen, Zhangxin; Li, Baoyan) The *hp* version of Eulerian-Lagrangian mixed discontinuous finite element methods for advection-diffusion problems. (English summary) **2004j:65184**

Chen, Jinru (*with* Xu, Xue Jun) The mortar element method for the rotated $Q1$ element. (*see* **2004e:65003**)

Chen, Jiun-Shyan (*with* Han, Weimin; You, Yang; Meng, Xueping) A reproducing kernel method with nodal interpolation property. (English summary) **2004b:65178**

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Chen, Shao Chun (*with* Zhao, Yongcheng; Shi, Dong Yang) Anisotropic interpolations with application to nonconforming elements. (English summary) **2004m:65188**

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Chen, Yan Ping[1] (*with* Yu, De Hao) Superconvergence of least-squares mixed finite element for second-order elliptic problems. (English summary) **2004k:65214**

— (*with* Zhang, Manping) Superconvergence of least-squares mixed finite element for symmetric elliptic problems. (English summary) **2004i:65119**

Chen, Zhangxin *see* **He, Yin Nian et al., 2004h:65122** *and* **Chen, Hongsen et al., 2004j:65184**

Chen, Zhi Ming[1] (*with* Hou, Thomas Y.) A mixed multiscale finite element method for elliptic problems with oscillating coefficients. (English summary) **2004a:65147**

— (*with* Wu, Haijun) An adaptive finite element method with perfectly matched absorbing layers for the wave scattering by periodic structures. (English summary) **2004k:65215**

Chenais, Denise (*with* Zuazua, Enrique) Approximation par éléments finis de problèmes elliptiques d'optimisation de forme. (English and French summaries) [Finite element approximation for elliptic shape-optimization problems]

Cheng, Xiao Liang *see* **Xue, Lian**

Chilton, Lawrence K. *see* **Ben Belgacem, Faker et al.**

Choo, Sang Mok *see* **Lee, Miyoung et al., 2004i:65122**

Chorfi, Nejmeddine Handling geometric singularities by the mortar spectral element method. I. Case of the Laplace equation. (English summary) **2004a:65148**

Chow, S.-S. (*with* Carey, Graham F.) Approximate analysis of extended Williamson fluids for Powell-Sabin-Heindl elements. (English summary) **2004k:65216**

Chung, Sang Kwon *see* **Lee, Miyoung et al., 2004i:65122**

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Cockburn, Bernardo (*with* Dawson, Clint) Approximation of the velocity by coupling discontinuous Galerkin and mixed finite element methods for flow problems. (English summary) **2004b:65179**

Costabel, Martin *see* **Boffi, Daniele et al., 2004j:65181**

Coyle, Joe *see* **Ainsworth, Mark, 2004j:65178**

Cueto, E. (*with* Sukumar, N.; Calvo, Begonia; Martínez, M. A.; Cegoñino, J.; Doblaré, M.) Overview and recent advances in natural neighbour Galerkin methods. (English summary) **2004m:65190**

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Dahmen, Wolfgang *see* **Binev, Petăr G. et al., 2004b:65176**

Dawson, Clint The $\mathscr{P}^{k+1} - \mathscr{P}^k$ local discontinuous Galerkin method for elliptic equations. (English summary) **2004a:65149**

— *see also* **Cockburn, Bernardo, 2004b:65179**

Debit, N. *see* **Agouzal, Abdellatif, (2004e:65003)**

Del Pin, Facundo *see* **Idelsohn, Sergio R. et al.**

Demkowicz, Leszek (*with* Babuška, Ivo) p interpolation error estimates for edge finite elements of variable order in two dimensions. (English summary) **2004m:65191**

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Després, Bruno *see* **Cessenat, Olivier, 2004j:65182**

DeVore, Ronald A. *see* **Binev, Petăr G. et al., 2004b:65176**

Diez, Pedro *see* **Fernández-Méndez, Sonia et al., 2004m:65193**

Doblaré, M. *see* **Cueto, E. et al., 2004m:65190**

Dostál, Zdeněk (*with* Horák, David; Szweda, Jan; Vondrák, Vít) Scalabilities of FETI for variational inequalities and contact shape optimization. (*see* **2004e:65003**)

— (*with* Horák, David) Scalable FETI with optimal dual penalty for semicoercive variational inequalities. (English summary) **2004k:65217**

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Duan, Huo Yuan (*with* Liang, Guo Ping; Ma, Chang Feng) A hybrid-mixed finite element method for the Stokes problem. (Chinese. English and Chinese summaries) **2004j:65185**

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— (*with* Liang, Guo Ping) Nonconforming elements in least-squares mixed finite element methods. (English summary) **2004k:65218**

Duarte, André Vinicius Celani *see* **Dutra do Carmo, Eduardo Gomes, 2004h:65118**

Durán, Ricardo G. (*with* Hernández, Erwin; Hervella-Nieto, Luis; Liberman, Elsa; Rodríguez, Rodolfo) Error estimates for low-order isoparametric quadrilateral finite elements for plates. (English summary) **2004m:65192**

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Dzhishkariani, Adam V. (*with* Svanidze, A.) One version of Galerkin-Petrov's method with iterations. (English and Georgian summaries) **2004h:65119**

Elman, Howard C. (*with* Ramage, Alison) A characterisation of oscillations in the discrete two-dimensional convection-diffusion equation. (English summary) **2004b:65180**

Ern, Alexandre *see* **Burman, Erik**

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Fan, S. C.[2] *see* **Lee, Chi King et al., 2004f:65189**

Farhat, Charbel (*with* Harari, Isaac; Hetmaniuk, Ulrich) The discontinuous enrichment method for multiscale analysis. (English summary) **2004h:65120**

— (*with* Wiedemann-Goiran, Paul; Tezaur, Radek) A discontinuous Galerkin method with plane waves and Lagrange multipliers for the solution of short wave exterior Helmholtz problems on unstructured meshes. (English summary)

Farhloul, M. (*with* Zine, Abdel-Malek) A new mixed finite element method for viscoelastic fluid flows. (English summary) **2004f:65183**

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Fedorenko, R. P. *see* **Klimov, A. D. et al., 2004d:65143** *and* **Zhukov, V. T. et al., 2004g:65163**

Feng, Lian Hai A finite volume-element scheme for solving second-order elliptic partial differential equations. (Chinese. English and Chinese summaries) **2004b:65182**

Feng, Min Fu *see* **Chen, Rui-ge, 2004g:65152**

Feodoritova, O. B. *see* **Zhukov, V. T. et al., 2004g:65163**

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Fulton, Scott R. *see* **Xenophontos, Christos, 2004a:65159**

Gabbert, Ulrich *see* **Buczkowski, Ryszard**

Galanin, M. P. (*with* Savenkov, E. B.) On the justification of the finite superelement method. (Russian. Russian summary) **2004e:65131**

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— (*with* Harbrecht, Helmut; Schneider, Reinhold) Least squares methods for the coupling of FEM and BEM. (English summary) **2004k:65220**
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Gatica, Luis F. *see* **Barrios, Tomás P. et al.**, **2004j:65180**
Ghadi, Fattehallah *see* **Ruas, Vitoriano et al.**
Girault, Vivette (*with* Scott, Larkin Ridgway) A quasi-local interpolation operator preserving the discrete divergence. (English summary) **2004a:65151**
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— (*with* Schweitzer, Marc Alexander) A particle-partition of unity method. IV. Parallelization. (English summary) **2004h:65121**
Gu, Y. T. *see* **Liu, Gui-Rong**, (**2004k:65004**)
Guo, Benqi Best approximation for the p-version of the finite element method in three dimensions in the framework of the Jacobi-weighted Besov spaces. (English summary) **2004m:65195**
Hackbusch, Wolfgang *see* **Bebendorf, Mario**, **2004e:65128**
Hagiwara, I chiro *see* **Shi, Dong Yang et al.**, **2004c:65149**
Han, Weimin *see* **Chen, Jiun-Shyan et al.**, **2004b:65178**
Han, Z. D. *see* **Atluri, S. N. et al.** *and* **Li, Qian[1] et al.**
Hansbo, Anita (*with* Hansbo, Peter; Larson, Mats G.) A finite element method on composite grids based on Nitsche's method. (English summary) **2004f:65184**
Hansbo, Peter (*with* Larson, Mats G.) Discontinuous Galerkin and the Crouzeix-Raviart element: application to elasticity. (English summary) **2004b:65184**
— *see also* **Becker, Roland et al.**, **2004e:65129** *and* **Hansbo, Anita et al.**, **2004f:65184**
Harari, Isaac *see* **Nesliturk, Ali**, **2004c:65146** *and* **Farhat, Charbel et al.**, **2004h:65120**
Harbrecht, Helmut *see* **Gatica, Gabriel N. et al.**, **2004k:65220**
Harriman, Kathryn (*with* Houston, Paul; Senior, Bill; Süli, Endre) hp-version discontinuous Galerkin methods with interior penalty for partial differential equations with nonnegative characteristic form. (English summary) **2004k:65221**
Häussler-Combe, Ulrich *see* **Luo, Yunhua**, (**2004d:65005**)
Havu, Ville An analysis of asymptotic consistency error in a parameter dependent model problem. (English summary) **2004e:65132**
— (*with* Pitkäranta, Juhani) Analysis of a bilinear finite element for shallow shells. II. Consistency error. (English summary) **2004f:65185**
He, Jiwen *see* **Ciarlet, Patrick, Jr.**, **2004c:65139** *and* **Glowinski, Roland et al.**
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— (*with* Wang, Aiwen; Chen, Zhangxin; Li, Kai Tai) An optimal nonlinear Galerkin method with mixed finite elements for the steady Navier-Stokes equations. (English summary) **2004h:65122**
Hecht, Frédéric *see* **Bernardi, Christine**, **2004b:65175**
Heikkola, Erkki (*with* Rossi, Tuomo; Toivanen, Jari) A parallel fictitious domain method for the three-dimensional Helmholtz equation. (English summary) **2004a:65152**
Heimsund, Bjørn-Ove (*with* Tai, Xue Cheng; Wang, Jun Ping[1]) Superconvergence for the gradient of finite element approximations by L^2 projections. (English summary) **2004a:65153**
Heinrich, B. (*with* Nicaise, Serge) The Nitsche mortar finite-element method for transmission problems with singularities. (English summary) **2004c:65142**
Hennart, J.-P. (*with* Mund, E. H.; del Valle, E.) Third order nodal finite element methods with transverse and reduced integration for elliptic problems. (English summary)
Hernández, Erwin *see* **Durán, Ricardo G. et al.**, **2004m:65192**
Hervella-Nieto, Luis *see* **Durán, Ricardo G. et al.**, **2004m:65192**
Hesthaven, J. S. *see* **Warburton, T.**, **2004d:65146**
Hetmaniuk, Ulrich *see* **Farhat, Charbel et al.**, **2004h:65120**
Heuer, Norbert *see* **Gatica, Gabriel N. et al.**, **2004b:65183**
Heuveline, Vincent (*with* Rannacher, Rolf) Duality-based adaptivity in the hp-finite element method. (English summary) **2004m:65196**
Hiptmair, Ralf Coupling of finite elements and boundary elements in electromagnetic scattering. (English summary) **2004i:65121**
Holst, Stefan (*with* Jüngel, Ansgar; Pietra, Paola) Finite-element discretizations of semiconductor energy-transport equations. (English summary) (*see* **2004h:00023**)
— (*with* Jüngel, Ansgar; Pietra, Paola) A mixed finite-element discretization of the energy-transport model for semiconductors. (English summary) **2004k:65222**
Horák, David *see* **Dostál, Zdeněk et al.**, **2004k:65217** *and* (**2004e:65003**)
Hou, Thomas Y. *see* **Chen, Zhi Ming[1]**, **2004a:65147**
Hou, Yan Ren (*with* Mattheij, R. M. M.) Inertial algorithms for the stationary Navier-Stokes equations. (English summary) **2004d:65142**
Houston, Paul *see* **Harriman, Kathryn et al.**, **2004k:65221**
Hu, Jun (*with* Ming, Ping-bing; Shi, Zhong Ci) Nonconforming quadrilateral rotated Q_1 element for Reissner-Mindlin plate (English summary) **2004c:65143**
Hu, Qiya (*with* Zou, Jun) Substructuring preconditioners for saddle-point problems arising from Maxwell's equations in three dimensions. (English summary) **2004m:65197**
Huang, Hung-Tsai (*with* Li, Zi-Cai; Zhou, Aihui) Global superconvergence of biquadratic Lagrange elements for Poisson's equation. (English summary) (*see* **2004m:00010**)
— (*with* Li, Zi-Cai; Yan, Ningning) New error estimates of Adini's elements for Poisson's equation. (English summary)
Huang, Yun Qing (*with* Xu, Jinchao) A conforming finite element method for overlapping and nonmatching grids. (English summary) **2004a:65154**
Huerta, Antonio *see* **Fernández-Méndez, Sonia et al.**, **2004m:65193**; **2004m:65194** *and* (**2004d:65005**)
Idelsohn, Sergio R. (*with* Oñate, Eugenio; Calvo, Nestor; Del Pin, Facundo) The meshless finite element method. (English summary)
Imoto, K. *see* **Kanayama, H. et al.**
Ingelström, P. (*with* Bondeson, A.) Goal-oriented error estimation and h-adaptivity for Maxwell's equations. (English summary) **2004f:65186**
Jang, Bongsoo *see* **Oh, Hae-Soo et al.**, **2004c:65148**
Jang, Gang-Won (*with* Kim, Jae Eun; Kim, Yoon Young) Multiscale Galerkin method using interpolation wavelets for two-dimensional elliptic problems in general domains. (English summary) **2004m:65198**
Jebelean, Petru (*with* Motreanu, Viorica Venera) Approximation for a class of discontinuous boundary value problems. (English summary) **2004c:65144**
Jimack, Peter K. (*with* Nadeem, Sarfraz A.) A parallel domain decomposition algorithm for the adaptive finite element solution of 3-D convection-diffusion problems. (English summary) (*see* **2004j:00013**)
Jin, Da Yong (*with* Liu, Tang; Zhang, Shu Hua[3]) Higher accuracy analysis for the Wilson element solution to a Sobolev type equation. (Chinese. English and Chinese summaries)
— (*with* Liu, Tang; Zhang, Shu Hua[3]) Analysis of the global superconvergence of the mixed element solution to a Sobolev type equation. (Chinese. English and Chinese summaries)
Jou, Yichung *see* **Oh, Hae-Soo et al.**, **2004c:65148**
Jüngel, Ansgar *see* **Holst, Stefan et al.**, **2004k:65222** *and* (**2004h:00023**)
Kako, Takashi *see* **Nasir, H. M. et al.**, **2004e:65133**
Kanayama, H. (*with* Tagami, Daisuke; Imoto, K.; Sugimoto, Sin-ichiro) Finite element computation of magnetic field problems with the displacement current. (English summary)
Kanschat, Guido (*with* Rannacher, Rolf) Local error analysis of the interior penalty discontinuous Galerkin method for second order elliptic problems. (English summary) **2004f:65187**
Ke, Yun Quan Spline solution to higher-order elliptic equations. (Chinese. English and Chinese summaries)
Khom'yak, M. M. *see* **Marchuk, M. V.**, **2004f:65193**
Khoromskiĭ, B. N. (*with* Melenk, J. M.) An efficient direct solver for the boundary concentrated FEM in 2D. (English summary) **2004b:65185**
— Data-sparse elliptic operator inverse based on explicit approximation to the Green function. (English summary) **2004h:65123**
— (*with* Melenk, J. M.) Boundary concentrated finite element methods. (English summary) **2004g:65153**
Kim, Do Wan *see* **Bae, Hyeong-Ohk**, **2004j:65179**
Kim, Hoonjoo (*with* Lee, Sung-Jin; Oh, Hae-Soo) Numerical methods and error analysis for one dimensional elliptic problems containing singularities. (English summary) **2004c:65145**
Kim, Jae Eun *see* **Jang, Gang-Won et al.**, **2004m:65198**
Kim, Philsu *see* **Kweon, Jae Ryong**, **2004g:65155**
Kim, Sang Dong (*with* Lee, Yong Hun) Error estimate and regularity for the compressible Navier-Stokes equations by Newton's method. (English summary) **2004a:65155**
Kim, Yoon Young *see* **Jang, Gang-Won et al.**, **2004m:65198**
Klawonn, Axel (*with* Widlund, Olof B.) FETI-DP methods for elliptic problems with discontinuous coefficients in three dimensions. (*see* **2004e:65003**)
Klimov, A. D. (*with* Strakhovskaya, L. G.; Fedorenko, R. P.) The finite superelement method and homogenization. (Russian. Russian summary) **2004d:65143**
Knabner, Peter (*with* Korotov, Sergey; Summ, G.) Conditions for the invertibility of the isoparametric mapping for hexahedral finite elements. (English summary)
Knobloch, Petr (*with* Tobiska, Lutz) The P_1^{mod} element: a new nonconforming finite element for convection-diffusion problems. (English summary) **2004g:65154**
Korotov, Sergey *see* **Knabner, Peter et al.**
Koyama, Daisuke *see* **Nasir, H. M. et al.**, **2004e:65133**
Kuhl, Ellen *see* **Mergheim, J. et al.**
Kurtz, Jason (*with* Xenophontos, Christos) On the effects of using curved elements in the approximation of the Reissner-Mindlin plate by the p version of the finite element method. (English summary)
Kuznetsov, Yuriĭ Alekseevich[1] (*with* Repin, S. I.) New mixed finite element method on polygonal and polyhedral meshes. (English summary) **2004f:65188**
Kweon, Jae Ryong (*with* Kim, Philsu) An explicit finite element method for convection-dominated compressible viscous Stokes system with inflow boundary. (English summary) **2004g:65155**
Kwon, Hee-Dae Efficient parallel implementations of finite element methods based on the conjecture gradient method. (English summary)
Lam, Kwok-Yan (*with* Wang, Q. X.; Li, Hua[4]) A novel meshless approach—local Kriging (LoKriging) method with two-dimensional structural analysis. (English summary)
Lamichhane, B. P. (*with* Wohlmuth, Barbara I.) Higher order dual Lagrange multiplier spaces for mortar finite element discretizations. (English summary) **2004b:65186**
Larson, Mats G. *see* **Hansbo, Peter**, **2004b:65184** *and* **Hansbo, Anita et al.**, **2004f:65184**
Lee, Chi King (*with* Liu, Xin[4]; Fan, S. C.[2]) Local multiquadric approximation for solving boundary value problems. (English summary) **2004f:65189**
Lee, Miyoung (*with* Choo, Sang Mok; Chung, Sang Kwon) Curved domain approximation in Dirichlet's problem. (English summary) **2004i:65122**
Lee, Sung-Jin *see* **Kim, Hoonjoo et al.**, **2004c:65145**
Lee, Yong Hun *see* **Kim, Sang Dong**, **2004a:65155**
Lefton, Lew E. (*with* Wei, Dongming) Penalty finite element approximations of the stationary power-law Stokes problem. (English summary) **2004j:65187**
Li, Baoyan *see* **Chen, Hongsen et al.**, **2004j:65184**
Li, Bo[1] Finite element analysis of a class of stress-free martensitic microstructures. (English summary) **2004f:65190**
— Lagrange interpolation and finite element superconvergence. (English summary) **2004m:65199**
Li, Chang-Pin (*with* Yang, Zhong Hua[1]) Error estimates of Galerkin method for high dimensional steady state Kuramoto-Sivashinsky equation. (English summary) **2004a:65156**
Li, Changjun[1] *see* **Zhang, Tie**, **2004h:65126**
Li, Hua[4] *see* **Lam, Kwok-Yan et al.**
Li, Kai Tai *see* **He, Yin Nian et al.**, **2004h:65122**
Li, Likang *see* **Liu, Qing[5]**, **2004d:65144**
Li, Qian[1] (*with* Shen, Shengping; Han, Z. D.; Atluri, S. N.) Application of meshless local

Petrov-Galerkin (MLPG) to problems with singularities, and material discontinuities, in 3-D elasticity. (English summary)

Li, Qing Shan (*with* Chen, Shao Chun; Wang, Fu Wei) Optimization for the interpolation theorem for narrow quadrilaterals. (Chinese. English and Chinese summaries)

Li, Yong Hai *see* **Zou, Qingsong**, **2004c:65152**

Li, Zi-Cai *see* **Wang, Song[1]**, **2004b:65192**; **2004d:65145** *and* **Huang, Hung-Tsai et al.**, **(2004m:00010)**

Liang, Guo Ping *see* **Duan, Huo Yuan et al.**, **2004f:65181**; **2004j:65185** *and* **2004k:65218**

Liberman, Elsa *see* **Durán, Ricardo G. et al.**, **2004m:65192**

Lin, Jia Fu (*with* Lin, Qun[1]) Superconvergence of the Bogner-Fox-Schmit element. (Chinese. English summary)

Lin, Qun[1] High performance finite element methods. (English summary) **2004m:65200**

— *see also* **Lin, Jia Fu**

Lin, Tao[1] (*with* Lin, Yan-ping; Rogers, Robert C.; Ryan, M. Lynne) A rectangular immersed finite element space for interface problems. (English summary) (*see* **2004h:00025**)

Lin, Wei[1] *see* **Zhu, Liangshun**, **(2004m:00011)**

Lin, Yan-ping *see* **He, Yin Nian et al.**, **2004d:65141**; **Zhang, Tie et al.**, **2004m:65206**; **Lin, Tao[1] et al.**, **(2004h:00025)** *and* **Allegretto, Walter et al.**, **(2004h:00025)**

Litvin, O. N. *see* **Baranova, T. A.**

Liu, Gui-Rong (*with* Gu, Y. T.) A meshfree weak-strong form method. (English summary) (*see* **2004k:65004**)

Liu, Mingjun *see* **Ewing, Richard E. et al.**, **2004j:65186**

Liu, Qing[5] (*with* Li, Likang) On mortar-type TRUNC element method for plate bending problem. (English summary) **2004d:65144**

Liu, Tang *see* **Jin, Da Yong et al.**

Liu, Xin[4] *see* **Lee, Chi King et al.**, **2004f:65189**

Liu, Yong-Cheng *see* **Poole, Eugene L. et al.**, **2004g:65158**

Liu, Zhen *see* **Bai, Yong-Qiang et al.**, **2004m:65186**

Loula, Abimael F. D. (*with* Zhu, Jiang[1]) Finite element analysis of a coupled nonlinear system. (English summary) **2004f:65191**

— *see also* **Galeão, A. C. et al.**, **2004k:65219**

Lu, Hongsheng (*with* Chen, Jiun-Shyan) Adaptive Galerkin particle method. (English summary) (*see* **2004d:65005**)

Lu, Xiu Min *see* **Luo, Zhen Dong**, **2004f:65192** *and* **2004j:65188**

Lui, S. H. *see* **Xu, Xue Jun**, **2004h:65125**

Luo, Yunhua (*with* Häussler-Combe, Ulrich) An adaptivity procedure based on the gradient of strain energy density and its application in meshless methods. (English summary) (*see* **2004d:65005**)

Luo, Zhen Dong (*with* Lu, Xiu Min) A least-squares Galerkin/Petrov mixed finite element method for stationary conduction-convection problems. (Chinese. English and Chinese summaries) **2004f:65192**

— (*with* Lu, Xiu Min) A nonlinear Galerkin/Petrov-least squares mixed element method for stationary conduction-convection problems. (Chinese. English summary) **2004j:65188**

Luskin, Mitchell *see* **Bělík, Pavel**, **2004f:65178**

Ma, Chang Feng *see* **Duan, Huo Yuan et al.**, **2004j:65185**

Ma, Shuqing *see* **Allegretto, Walter et al.**, **(2004h:00025)**

Ma, Yi Chen *see* **Ren, Chun-feng**, **2004k:65224**

Maday, Yvon *see* **Bouillault, F. et al.**, **2004g:65151**

Malta, S. M. C. *see* **Galeão, A. C. et al.**, **2004k:65219**

Mandel, Jan *see* **Poole, Eugene L. et al.**, **2004g:65158**

Manouzi, H. (*with* Brahmi, A.; Farhloul, M.) Finite element approximation of bipolar viscous fluids. (English summary) **2004i:65123**

Marchuk, M. V. (*with* Khom'yak, M. M.) A mixed form of the finite element method and a block algorithm for solving the interlay contact problem. (Ukrainian. English, Russian and Ukrainian summaries) **2004f:65193**

Marini, Luisa Donatella *see* **Brezzi, Franco**, **(2004h:65007)**

Martínez, M. A. *see* **Cueto, E. et al.**, **2004m:65190**

Maryška, Jiří (*with* Severýn, Otto; Vohralík, Martin) Mixed-hybrid FEM discrete fracture network model of the fracture flow. (English summary) (*see* **2004j:00014**)

— (*with* Novák, Josef[1]; Rálek, Petr; Šembera, Jan) Finite element model of piezoelectric resonator. (English summary) **2004k:65223**

Matsuzawa, Yuki (*with* Suzuki, Takashi[1]; Tsuchiya, Takuya) Finite element approximation of H-surfaces. (English summary) **2004b:65187**

Mattheij, R. M. M. *see* **Hou, Yan Ren**, **2004d:65142**

Matthies, Gunar (*with* Tobiska, Lutz) The inf-sup condition for the mapped Q_k-P_{k-1}^{disc} element in arbitrary space dimensions. (English summary) **2004g:65156**

Meddahi, Salim On a mixed finite element formulation of a second-order quasilinear problem in the plane. (English summary) **2004j:65189**

— *see also* **Gatica, Gabriel N. et al.**, **2004b:65183**

Melenk, J. M. *see* **Khoromskiĭ, B. N.**, **2004b:65185** *and* **2004g:65153**

Meng, Ling-xiong (*with* Zhu, Qi-ding) The ultraconvergent derivatives recovery technique for odd-order elements—a computer-based test result. (English and Chinese summaries)

Meng, Xueping *see* **Chen, Jiun-Shyan et al.**, **2004b:65178**

Mergheim, J. (*with* Kuhl, Ellen; Steinmann, Paul) A hybrid discontinuous Galerkin/interface method for the computational modelling of failure. (English summary)

Micheletti, Stefano (*with* Perotto, Simona; Picasso, Marco) Stabilized finite elements on anisotropic meshes: a priori error estimates for the advection-diffusion and the Stokes problems. (English summary) **2004g:65157**

Ming, Ping-bing (*with* Shi, Zhong Ci) Convergence analysis for quadrilateral rotated Q_1 elements. (English summary) (*see* **2004h:00025**)

— (*with* Shi, Zhong Ci) Some low order quadrilateral Reissner-Mindlin plate elements. (English summary) **2004i:65124**

— (*with* Shi, Zhong Ci) Mathematical analysis for quadrilateral rotated $\mathscr{E}_1$ element. II. Poincaré inequality and trace inequality. (English summary) **2004b:65188**

— (*with* Shi, Zhong Ci) Mathematical analysis for quadrilateral rotated $\mathscr{E}_1$ element. III. The effect of numerical integration. (English summary) **2004b:65189**

— *see also* **Hu, Jun et al.**, **2004c:65143**

Mohr, G. A. (*with* Power, A. S.) Natural cubic element formulation and infinite domain modelling for potential flow problems. (English summary) **2004f:65194**

Morel, Jim Emanuel *see* **Warsa, J. S. et al.**, **2004g:65162**

Morin, Pedro *see* **Bänsch, Eberhard et al.**, **2004e:65127**

Motreanu, Viorica Venera *see* **Jebelean, Petru**, **2004c:65144**

Mund, E. H. *see* **Hennart, J.-P. et al.**

Nadeem, Sarfraz A. *see* **Jimack, Peter K.**, **(2004j:00013)**

Najzar, Karel *see* **Sváček, Petr**

Namm, R. V. *see* **Zolotukhin, A. Ya. et al.**, **2004f:65198**

Nasir, H. M. (*with* Kako, Takashi; Koyama, Daisuke) A mixed-type finite element approximation for radiation problems using fictitious domain method. (English summary) **2004e:65133**

Neslitürk, Ali (*with* Harari, Isaac) The nearly optimal Petrov-Galerkin method for convection-diffusion problems. (English summary) **2004c:65146**

Nguyen, Hoang (*with* Stevenson, Rob) Finite-element wavelets on manifolds. (English summary) **2004c:65147**

Nguyễn Văn Tuấn Spline collocation methods for Neumann problem for elliptic equations. (English summary)

Nicaise, Serge *see* **Heinrich, B.**, **2004c:65142**

Nie, Yu Feng (*with* Zhou, Tian Xiao) 8-node hexahedron combined hybrid elements with high performance. (Chinese. English summary)

Nobile, F. *see* **Prudhomme, Serge et al.**, **2004m:65201**

Nochetto, Ricardo H. *see* **Bänsch, Eberhard et al.**, **2004e:65127** *and* **Girault, Vivette et al.**

Novák, Josef[1] *see* **Maryška, Jiřiet al.**, **2004k:65223**

Novikova, N. D. *see* **Zhukov, V. T. et al.**, **2004g:65163**

Novotný, Jaroslav *see* **Burda, Pavel et al.**

Oden, J. Tinsley *see* **Romkes, Albert et al.**, **2004k:65225** *and* **Prudhomme, Serge et al.**, **2004m:65201**

Oh, Hae-Soo (*with* Jang, Bongsoo; Jou, Yichung) The weighted Ritz-Galerkin method for elliptic boundary value problems on unbounded domains. (English summary) **2004c:65148**

— *see also* **Kim, Hoonjoo et al.**, **2004c:65145**

Oñate, Eugenio *see* **Idelsohn, Sergio R. et al.**

Osborn, John E. *see* **Babuška, Ivo et al.**, **2004h:65116**

Oswald, Peter (*with* Wohlmuth, Barbara I.) On polynomial reproduction of dual FE bases. (*see* **2004e:65003**)

Pachina, A. V. *see* **Zolotukhin, A. Ya. et al.**, **2004f:65198**

Pan, Tsorng-Whay *see* **Dacorogna, Bernard et al.**, **2004c:65140**

Park, Chunjae (*with* Sheen, Dongwoo) P_1-nonconforming quadrilateral finite element methods for second-order elliptic problems. (English summary) **2004i:65125**

Parolini, N. *see* **Auteri, F. et al.**, **2004b:65173**

Pei, Ming *see* **Bai, Yong-Qiang et al.**, **2004m:65186**

Perotto, Simona *see* **Formaggia, Luca et al.**, **2004a:65150** *and* **Micheletti, Stefano et al.**, **2004g:65157**

Perugia, Ilaria (*with* Schötzau, Dominik) The hp-local discontinuous Galerkin method for low-frequency time-harmonic Maxwell equations. (English summary) **2004b:65190**

Petrushev, Pencho *see* **Binev, Petăr G. et al.**, **2004b:65176**

Picasso, Marco *see* **Micheletti, Stefano et al.**, **2004g:65157**

Pietra, Paola *see* **Holst, Stefan et al.**, **2004k:65222** *and* **(2004h:00023)**

Pinchedez, Katia *see* **Ainsworth, Mark**, **2004d:65137**

Piquemal, Anne-Sophie *see* **Bertoluzza, Silvia**

Pitkäranta, Juhani *see* **Havu, Ville**, **2004f:65185**

Plum, Michael (*with* Wieners, Christian) Optimal a priori estimates for interface problems. (English summary) **2004i:65126**

Poole, Eugene L. (*with* Liu, Yong-Cheng; Mandel, Jan) Advancing analysis capabilities in ANSYS through solver technology. (English summary) **2004g:65158**

Pop, Nicolae On the stability of the finite element mixed approximation for contact problems with friction. (English summary)

Potapov, I. I. *see* **Bulgakov, V. K.**, **2004b:65177** *and* **2004m:65187**

Power, A. S. *see* **Mohr, G. A.**, **2004f:65194**

Provatidis, Christopher G. Solution of two-dimensional Poisson problems in quadrilateral domains using transfinite Coons interpolation. (English summary)

Prudhomme, Serge (*with* Nobile, F.; Chamoin, L.; Oden, J. Tinsley) Analysis of a subdomain-based error estimator for finite element approximations of elliptic problems. (English summary) **2004m:65201**

— *see also* **Romkes, Albert et al.**, **2004k:65225**

Quartapelle, Luigi *see* **Auteri, F. et al.**, **2004b:65173**

Rálek, Petr *see* **Maryška, Jiřiet al.**, **2004k:65223**

Ramage, Alison *see* **Elman, Howard C.**, **2004b:65180**

Rannacher, Rolf Adaptive finite element methods for partial differential equations. (English summary) **2004f:65195**

— *see also* **Kanschat, Guido**, **2004f:65187** *and* **Heuveline, Vincent**, **2004m:65196**

Rapetti, Francesca *see* **Bouillault, F. et al.**, **2004g:65151**

Rappaz, Jacques *see* **Glowinski, Roland et al.**

Reddy, B. D. *see* **Braess, Dietrich et al.**, **2004k:65211**

Ren, Chun-feng (*with* Ma, Yi Chen) A two-grid method for the steady penalized Navier-Stokes equations. (English summary) **2004k:65224**

Renard, Yves *see* **Ben Belgacem, Faker**, **2004d:65139**

Repin, S. I. *see* **Kuznetsov, Yuriĭ Alekseevich[1]**, **2004f:65188**

Rivière, Béatrice *see* **Bastian, Peter**, **2004f:65177**

Rodríguez, Rodolfo *see* **Durán, Ricardo G. et al.**, **2004m:65192**

Roe, Philip L. *see* **Abgrall, Rémi**, **2004m:65185**

Rogers, Robert C. *see* **Lin, Tao[1] et al.**, **(2004h:00025)**

Romkes, Albert (*with* Prudhomme, Serge; Oden, J. Tinsley) A priori error analyses of a stabilized discontinuous Galerkin method. (English summary) **2004k:65225**

Roos, Hans-Görg (*with* Zarin, Helena) The discontinuous Galerkin finite element method for singularly perturbed problems. (English summary)

Rossi, Tuomo *see* **Heikkola, Erkki et al.**, **2004a:65152**

Ruas, Vitoriano (*with* Ghadi, Fattehallah; Wakrim, Mohamed) External approximation of $H^3(\Omega)$ in a bounded domain of $\mathbb{R}^3$ with piecewise cubics of weak C^2-class. (English and

French summaries)
Ryan, M. Lynne *see* **Lin, Tao[1] et al.**, (**2004h:00025**)
Ryoo, Cheon Seoung Solving obstacle problems with guaranteed accuracy. (English summary) **2004b:65191**
Sangalli, Giancarlo Capturing small scales in elliptic problems using a residual-free bubbles finite element method. (English summary) **2004m:65202**
Sarkis, Marcus V. (*with* Tu, Xuemin) Singular function mortar finite element methods. (English summary) **2004g:65159**
Sauter, Stefan A. *see* **Carstensen, Carsten**, **2004k:65212**
Savenkov, E. B. *see* **Galanin, M. P.**, **2004e:65131**
Sayas, Francisco-Javier A nodal coupling of finite and boundary elements. (English summary) **2004g:65160**
Schatz, Alfred H. (*with* Wahlbin, Lars B.) Pointwise error estimates for differences in piecewise linear finite element approximations. (English summary) **2004j:65190**
— (*with* Wahlbin, Lars B.) Asymptotically exact a posteriori estimators for the pointwise gradient error on each element in irregular meshes. II. The piecewise linear case. (English summary) **2004i:65127**
Schneebeli, Anna (*with* Schötzau, Dominik) Mixed finite elements for incompressible magneto-hydrodynamics. (English and French summaries)
Schneider, Reinhold *see* **Gatica, Gabriel N. et al.**, **2004k:65220**
Schötzau, Dominik (*with* Schwab, Christoph; Toselli, Andrea) Stabilized hp-DGFEM for incompressible flow. (English summary) **2004j:65191**
— (*with* Schwab, Christoph; Toselli, Andrea) Mixed hp-DGFEM for incompressible flows. II. Geometric edge meshes. (English summary) **2004m:65203**
— *see also* **Perugia, Ilaria**, **2004b:65190** *and* **Schneebeli, Anna**
Schwab, Christoph High dimensional finite elements for elliptic problems with multiple scales and stochastic data. (English summary) **2004a:65157**
— (*with* Todor, Radu-Alexandru) Sparse finite elements for stochastic elliptic problems—higher order moments. (English summary) **2004k:65226**
— (*with* Todor, Radu-Alexandru) Sparse finite elements for elliptic problems with stochastic loading. (English summary) **2004j:65192**
— *see also* **Toselli, Andrea**, **2004f:65196**; **Schötzau, Dominik et al.**, **2004j:65191** *and* **2004m:65203**
Schweitzer, Marc Alexander ★ A parallel multilevel partition of unity method for elliptic partial differential equations. **2004g:65161**
— *see also* **Griebel, Michael**, **2004h:65121** *and* (**2004d:00025**)
Scott, Larkin Ridgway *see* **Girault, Vivette et al.**, **2004a:65151**
Šembera, Jan *see* **Maryška, Jiřiet al.**, **2004k:65223**
Senior, Bill *see* **Harriman, Kathryn et al.**, **2004k:65221**
Seshaiyer, Padmanabhan *see* **Ben Belgacem, Faker et al.**
Severýn, Otto *see* **Maryška, Jiřiet al.**, (**2004j:00014**)
Sheen, Dongwoo *see* **Park, Chunjae**, **2004i:65125**
Shen, Jian[1] *see* **Ewing, Richard E. et al.**, (**2004h:00025**)
Shen, Samuel S. P. *see* **He, Yin Nian et al.**, **2004d:65141**
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Shi, Zhong Ci *see* **Ming, Ping-bing**, **2004b:65188**; **2004b:65189**; **2004i:65124**; (**2004h:00025**) *and* **Hu, Jun et al.**, **2004c:65143**
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Shyy, Wei *see* **Garbey, M.**, **2004c:65141**
Sobotíková, Veronika An error estimate for the finite element solution of an elliptic problem with a nonlinear Newton boundary condition in nonpolygon domains. (English summary) **2004i:65128**
Song, Shi Cang *see* **Shi, Dong Yang et al.**, **2004m:65204**
Souissi, A. *see* **Achchab, Boujemaa et al.**, **2004d:65136**
Sousedík, Bedřich *see* **Burda, Pavel et al.**
Steinmann, Paul *see* **Mergheim, J. et al.**
Stenberg, Rolf *see* **Becker, Roland et al.**, **2004e:65129**
Stevenson, Rob *see* **Nguyen, Hoang**, **2004c:65147** *and* **Brandts, Jan H.**, **2004f:65180**
Strakhovskaya, L. G. *see* **Klimov, A. D. et al.**, **2004d:65143** *and* **Zhukov, V. T. et al.**, **2004g:65163**
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Sugimoto, Sin-ichiro *see* **Kanayama, H. et al.**
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Süli, Endre *see* **Harriman, Kathryn et al.**, **2004k:65221**
Summ, G. *see* **Knabner, Peter et al.**
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Sun, Weiwei *see* **He, Yin Nian et al.**, **2004d:65141**
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Sváček, Petr (*with* Najzar, Karel) Numerical solution of problems with non-linear boundary conditions. (English summary)
Svanidze, A. *see* **Dzhishkariani, Adam V.**, **2004h:65119**
Szabó, B. A. *see* **Actis, R. L.**
Szabó, Zsuzsanna About the asymptotic error expansion and Richardson extrapolation for linear finite elements. I. **2004m:65205**
Szweda, Jan *see* **Dostál, Zdeněk et al.**, (**2004e:65003**)
Tagami, Daisuke *see* **Kanayama, H. et al.**
Tai, Xue Cheng *see* **Heimsund, Bjørn-Ove et al.**, **2004a:65153**
Tait, Robert *see* **He, Yin Nian et al.**, **2004d:65141** *and* **Zhang, Tie et al.**, **2004m:65206**
Tezaur, Radek *see* **Farhat, Charbel et al.**
Tobiska, Lutz *see* **Knobloch, Petr**, **2004g:65154**; **Matthies, Gunar**, **2004g:65156** *and* **Stynes, Martin**, **2004j:65193**
Todor, Radu-Alexandru *see* **Schwab, Christoph**, **2004j:65192** *and* **2004k:65226**
Toivanen, Jari *see* **Heikkola, Erkki et al.**, **2004a:65152**
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Tsuchiya, Takuya *see* **Matsuzawa, Yuki et al.**, **2004b:65187**
Tu, Xuemin *see* **Sarkis, Marcus V.**, **2004g:65159**
del Valle, E. *see* **Hennart, J.-P. et al.**
Vasseur, Xavier *see* **Toselli, Andrea**, **2004h:65124**
Vera-Guzmán, Norberto *see* **Alduncin, Gonzalo**
Vohralík, Martin *see* **Maryška, Jiřiet al.**, (**2004j:00014**)
Vondrák, Vít *see* **Dostál, Zdeněk et al.**, (**2004e:65003**)
Wagner, Joël *see* **Glowinski, Roland et al.**
Wahlbin, Lars B. *see* **Schatz, Alfred H.**, **2004i:65127** *and* **2004j:65190**
Wakrim, Mohamed *see* **Ruas, Vitoriano et al.**
Wang, Aiwen *see* **He, Yin Nian et al.**, **2004h:65122**
Wang, Fu Wei *see* **Li, Qing Shan et al.**
Wang, Jun Ping[1] *see* **Heimsund, Bjørn-Ove et al.**, **2004a:65153**; **Ewing, Richard E. et al.**, **2004b:65181**; **2004j:65186** *and* (**2004h:00025**)
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Wei, Bao Jun *see* **Sun, Hui Xia et al.**, **2004k:65227**
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Widlund, Olof B. *see* **Klawonn, Axel**, (**2004e:65003**)
Wiedemann-Goiran, Paul *see* **Farhat, Charbel et al.**
Wieners, Christian *see* **Plum, Michael**, **2004i:65126**
Winther, Ragnar *see* **Arnold, Douglas N.**, **2004f:65176** *and* (**2004h:65005**)
Wohlmuth, Barbara I. A comparison of dual Lagrange multiplier spaces for mortar finite element discretizations. (English summary) **2004b:65193**
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Wu, Haijun *see* **Chen, Zhi Ming[1]**, **2004k:65215**
Wu, Jing-zhu *see* **Shi, Dong Yang et al.**, **2004m:65204**
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Xie, Xiao Ping[3] *see* **Zhou, Tian Xiao**, **2004b:65194**
Xie, Zi Qing *see* **Xu, Yun[2]**, **2004f:65197**
Xu, Chaoyong *see* **Ye, Xiu**, **2004k:65231**
Xu, Jinchao (*with* Zikatanov, Ludmil T.) On multigrid methods for generalized finite element methods. (English summary) (*see* **2004d:65005**)
— (*with* Zikatanov, Ludmil T.) Some observations on Babuška and Brezzi theories. (English summary) **2004a:65160**
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Yang, Dao-qi (*with* Zhao, Jennifer) An iterative hybridized mixed finite element method for elliptic interface problems with strongly discontinuous coefficients. (English summary) **2004c:65150**
Yang, Yongjun *see* **Ewing, Richard E. et al.**, **2004b:65181**
Yang, Zhong Hua[1] *see* **Li, Chang-Pin**, **2004a:65156**

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You, Yang *see* **Chen, Jiun-Shyan et al., 2004b:65178**

Younes, Anis (*with* Ackerer, Philippe; Chavent, Guy) From mixed finite elements to finite volumes for elliptic PDEs in two and three dimensions. (English summary)

Yu, De Hao *see* **Chen, Yan Ping[1], 2004k:65214**

Zarin, Helena *see* **Roos, Hans-Görg**

Zenger, Christoph *see* **Achatz, Stefan, (2004j:65005)**

Zhang, Lin[4] *see* **Strouboulis, Theofanis et al.**

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Zhao, Yongcheng *see* **Chen, Shao Chun et al., 2004m:65188** *and* **2004m:65189**

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Zheng, Zhu-Jun *see* **Bai, Yong-Qiang et al., 2004m:65186**

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Zhu, Qi-ding *see* **Chen, Chuan Miao, 2004j:65183** *and* **Meng, Ling-xiong**

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Zikatanov, Ludmil T. *see* **Xu, Jinchao, 2004a:65160** *and* **(2004d:65005)**

Zine, Abdel-Malek *see* **Farhloul, M., 2004f:65183**

Zolotukhin, A. Ya. (*with* Namm, R. V.; Pachina, A. V.) Approximate solution of the semicoercive Signorini problem with an inhomogeneous boundary condition. (Russian. Russian summary) **2004f:65198**

Zou, Jun *see* **Hu, Qiya, 2004m:65197**

Zou, Qingsong (*with* Li, Yong Hai) On the approaching domain obtained by finite element method. (English summary) **2004c:65152**

Zuazua, Enrique *see* **Chenais, Denise**

Zunino, Paolo *see* **Formaggia, Luca et al., 2004a:65150**

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Bognár, Gabriella (*with* Szabó, Tamás[2]) Solving nonlinear eigenvalue problems by using p-version of FEM. (English summary) **2004i:65117**

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Cho, Jinwoo *see* **Sheen, Dongwoo et al.**, **2004c:74072**
Choi, Q-Heung *see* **Chun, Changbum**, **2004b:35086**
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Cockburn, Bernardo Discontinuous Galerkin methods. (English summary) **2004i:65002**
Codina, Ramon *see* **Houzeaux, Guillaume**, **2004g:65175**
Coleman, S. A. *see* **Scotney, B. W. et al.**, (**2004j:00012**)
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Cui, Jun Zhi *see* **Cao, Li-Qun et al.**, **2004i:35042** *and* **He, Wen Ming et al.**, **2004i:65106**
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De Figueiredo, Djairo G. *see* **Alves, Claudianor Oliveira**, **2004i:35088**
Demkowicz, Leszek Edge finite elements of variable order for Maxwell's equations. (English summary) **2004a:78040**
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Fairag, Faisal Numerical computations of viscous, incompressible flow problems using a two-level finite element method. (English summary) **2004g:76090**
Fang, Qing *see* **Li, Zi-Cai et al.**, **2004a:65138**
Feijóo, Gonzalo R. *see* **Oberai, Assad A. et al.**, **2004e:35220**
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Fernández García, José Ramón *see* **Chau, O. et al.**, **2004b:74067**
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Fortin, A. *see* **Guénette, R. et al.**, **2004k:65204**
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Gavete, M. L. *see* **Gavete, Luis et al.**, **2004k:65195**
Gerbi, Stéphane *see* **Bourdarias, Christian et al.**
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Giovangigli, Vincent *see* **Burman, Erik et al.**, **2004c:80018** *and* **2004m:80013**
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Glowinski, Roland (*with* Rappaz, Jacques) Approximation of a nonlinear elliptic problem arising in a non-Newtonian fluid flow model in glaciology. (English summary) **2004e:86022**
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Goldfeld, Paulo (*with* Pavarino, Luca F.; Widlund, Olof B.) Balancing Neumann-Neumann preconditioners for mixed approximations of heterogeneous problems in linear elasticity. (English summary) **2004k:65250**
González Taboada, María *see* **Gatica, Gabriel N. et al.**, **2004k:76082** *and* **2004k:76083**
Gowda, Shivaraju *see* **Kechroud, Riyad et al.**
(Griebel, Michael) *see* **Meshfree methods for partial differential equations**, **2004d:65005**
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Guénette, R. (*with* Fortin, A.; Labbé, J.; Marcotte, J. P.) Iterative solvers for quadratic discretizations of the generalized Stokes problem. (English summary) **2004k:65204**
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Haiour, M. *see* **Boulbrachene, M. et al.**, **2004d:65126**
Han, Weimin (*with* Wang, Lie Heng) Nonconforming finite element analysis for a plate contact problem. (English summary) **2004a:74056**
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Kaschiev, M. S. *see* **Chuluunbaatar, Ochbadrakh et al., (2004j:65007)**

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Krysl, Petr *see* **Lall, Sanjay et al., 2004k:70016**

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Kunisch, Karl *see* **Ito, Kazufumi et al., 2004i:49011**

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Lions, Jacques-Louis *see* **Gervasio, P. et al., (2004e:65003)**

Lipnikov, Konstantin *see* **Kuznetsov, Yuriĭ Alekseevich[1] et al., 2004j:74120**

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Martin, Vincent *see* **Jaffré, Jérôme et al., (2004e:65004)**

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Pérez, Cristian *see* **Harbrecht, Helmut et al., 2004g:65035**

Pflaum, C. *see* **Manteuffel, T. A. et al., 2004d:65128**

Pierre, Roger *see* **Dossou, Kokou, 2004g:74064**

Pinnau, René *see* **Jüngel, Ansgar, 2004f:65150**

Prohl, Andreas ★ Computational micromagnetism. (English summary) **2004e:82067**

— *see also* **Bartels, Sören, 2004m:74094**

Prud'homme, Christophe *see* **Veroy, Karen et al.**

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Răducanu, Răzvan On the NEM method in thermoelasticity. (English summary) **2004m:74045**

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Robinson, Allen C. *see* **Bochev, Pavel B. et al., 2004g:65173**

Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al., 2004b:78017**; **2004f:74087**; **2004i:78022**; **Hernández, Erwin, 2004c:65136**; **Durán, Ricardo G. et al., 2004f:65173** *and* **Cascón, J. M. et al., 2004j:86001**

Roubíček, Tomáš *see* **Matache, Ana-Maria et al., 2004h:49049**

Royis, P. *see* **Laouafa, F.**

Rozza, Gianluigi *see* **Quarteroni, Alfio, 2004k:49095**

Ruas, Vitoriano Mixed finite element methods with discontinuous pressures for the axisymmetric Stokes problem. (English summary) **2004b:76097**

Ruge, J. W. *see* **Heys, J. J. et al.**

Russell, Thomas F. *see* **Naff, R. L. et al., 2004a:76088**

Saad, Youcef *see* **Kechroud, Riyad et al.**

Saadi, Signora *see* **Boulbrachene, M. et al., 2004d:65126**

Sac-Epee, Jean-Marc *see* **Belhachmi, Zakaria et al., 2004m:74108**

Salaün, Michel *see* **Dubois, François et al., 2004i:76141**

Salgado, Pilar *see* **Bermúdez de Castro, Alfredo et al., 2004b:78017** *and* **2004i:78022**

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Sauter, Stefan A. *see* **Repin, S. I. et al., 2004j:65168**

Sayas, Francisco-Javier *see* **Domínguez, Víctor**

Schieweck, Friedhelm *see* **Layton, William J. et al., 2004c:76048**

Schneider, Reinhold *see* **Harbrecht, Helmut et al., 2004g:65035**

Schöberl, Joachim *see* **Lazarov, Raytcho D. et al., 2004j:65205**

Schwab, Christoph *see* **Matache, Ana-Maria et al., 2004e:35011** *and* **2004h:49049**

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Segeth, Karel *see* **Šolín, Pavel et al., 2004h:65004**

Selgas, Virginia *see* **Meddahi, Salim, 2004f:78007**

Seo, Sangwon *see* **Sheen, Dongwoo et al., 2004c:74072**

Seshaiyer, Padmanabhan Stability and convergence of nonconforming *hp* finite-element methods. (English summary) **2004j:65166**

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Severýn, Otto *see* **Vohralík, Martin et al., (2004h:65005)**

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Siebert, Kunibert G. *see* **Nochetto, Ricardo H. et al., 2004g:49055**

Silvester, David J. *see* **Mihajlović, Milan D., 2004k:65208**

Smolianski, Anton *see* **Repin, S. I. et al., 2004j:65168**

Sofonea, Mircea *see* **Chau, O. et al., 2004b:74067**

Sokołowski, Jan *see* **Belhachmi, Zakaria et al., 2004m:74108**

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Soulaimani, Azzeddine *see* **Kechroud, Riyad et al.**

Stehlík, J. *see* **Nedoma, Jiřiet al.**

Strand, Bo *see* **Edlund, Johan et al., 2004f:78037**

Sung, Li-yeng *see* **Brenner, Susanne C., 2004k:65248**

(Suri, Manil) *see* ***p*-FEM2000: *p* and *hp* finite element methods—mathematics and engineering practice**

Swift, James W. *see* **Neuberger, John M. et al., 2004m:82159**

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Tomov, Stanimire *see* **Lazarov, Raytcho D., 2004b:65166**

Toselli, Andrea *see* **Lasser, C., (2004e:65003)**

Tralli, A. *see* **Benvenuti, E., 2004j:74119**

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Tröltzsch, Fredi *see* **Casas Rentería, Eduardo, 2004d:49074**

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Tuminaro, Raymond S. *see* **Bochev, Pavel B. et al., 2004g:65173**

Van Keer, Roger *see* **De Schepper, Hennie, 2004m:65183**

Vanselow, Reiner A cell-centered FVM for the two-dimensional Stokes equation. (English and German summaries) **2004h:76119**

Vassilevski, Panayot S. *see* **Lazarov, Raytcho D. et al., 2004j:65205**

Veeser, Andreas *see* **Nochetto, Ricardo H. et al., 2004g:49055**

Ventura, Giulio *see* **Belytschko, Ted et al., (2004d:65005)**

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Vexler, Boris *see* **Becker, Roland, 2004k:65197**

Vidal, Yolanda *see* **Huerta, Antonio et al.**

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Vinitskiĭ, S. I. *see* **Chuluunbaatar, Ochbadrakh et al.**, (2004j:65007)
Vohralík, Martin (*with* Maryška, Jiří; Severýn, Otto) Mixed-hybrid discrete fracture network model. (English summary) (*see* **2004h:65005**)
Voigt, Alexander (*with* Hanssen, N.; Weichmann, C.) The radiosity equation for solving global heat transfer in industrial furnaces. (English summary) **2004m:80002**
Wang, Guang Hui *see* **Luo, Zhang Hua**
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Wang, Song[1] *see* **Li, Xiang Gui et al.**, **2004m:65110**
Weatherill, N. P. *see* **Ledger, P. D. et al.**, **2004g:78032** *and* **2004m:78011**
Wei, Dongming *see* **Kythe, Prem K.**, **2004h:65001**
Weichmann, C. *see* **Voigt, Alexander et al.**, **2004m:80002**
Weinberg, Kerstin *see* **Carstensen, Carsten**, **2004i:74102**
Wheeler, John A. (*with* Wheeler, Mary F.; Yotov, Ivan) Enhanced velocity mixed finite element methods for flow in multiblock domains. (English summary) **2004a:76092**
Wheeler, Mary F. *see* **Rivière, Béatrice**, **2004a:76090**; **2004j:65169** *and* **Wheeler, John A. et al.**, **2004a:76092**
Widlund, Olof B. *see* **Goldfeld, Paulo et al.**, **2004k:65250**
Wieners, Christian (*with* Wohlmuth, Barbara I.) Duality estimates and multigrid analysis for saddle point problems arising from mortar discretizations. (English summary) **2004g:65176**
Wihler, Thomas P. Locking-free DGFEM for elasticity problems in polygons. (English summary) **2004i:74108**
Wilson, John David *see* **Naff, R. L. et al.**, **2004a:76088**
Wohlmuth, Barbara I. (*with* Krause, Rolf H.) Monotone multigrid methods on nonmatching grids for nonlinear multibody contact problems. (English summary) **2004k:74042**
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Wu, Haijun (*with* Li, Ronghua) Error estimates for finite volume element methods for general second-order elliptic problems. (English summary) **2004i:65108**
Xu, Jinchao (*with* Zhou, Aihui) Some multiscale methods for partial differential equations. (English summary) **2004a:65175**
— (*with* Zhou, Aihui) Local and parallel finite element algorithms for eigenvalue problems. (English summary) **2004m:65184**
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Xu, Jingxiao *see* **Belytschko, Ted et al.**, (**2004d:65005**)
Xu, Xue Jun *see* **Shi, Zhong Ci et al.**, **2004h:65132** *and* (**2004e:65003**)
Yamamoto, Tetsuro *see* **Li, Zi-Cai et al.**, **2004a:65138**
Yan, Ningning A posteriori error estimators of gradient recovery type for FEM of a model optimal control problem. (English summary) **2004d:49075**
— *see also* **Liu, Wen Bin**[1], **2004j:49049**
Ying, Long An *see* **Zheng, Wei Ying et al.**
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(Yosibash, Zohar) *see* ***p*-FEM2000: *p* and *hp* finite element methods—mathematics and engineering practice**
Yotov, Ivan *see* **Wheeler, John A. et al.**, **2004a:76092**; **Pencheva, Gergina**, **2004c:65162** *and* **Layton, William J. et al.**, **2004c:76048**
Yue, Xing Ye *see* **Chen, Zhi Ming**[1], **2004c:76141** *and* **2004m:76152**
Yuldashev, O. I. *see* **Zhidkov, E. P. et al.**, **2004e:78009**
Yuldasheva, M. B. *see* **Zhidkov, E. P. et al.**, **2004e:78009**
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Zhang, Manping *see* **Chen, Yan Ping**[1], (**2004j:65009**)
Zhang, Zhimin Finite element superconvergence on Shishkin mesh for 2-D convection-diffusion problems. (English summary) **2004d:65130**
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Zhou, Shu Zi *see* **Zeng, Jin Ping et al.**, (**2004j:65009**)
Zhou, Yu Ying[2] *see* **Huang, Yi Sheng**[1], **2004b:35132**
Zhu, Jiang[3] *see* **Luo, Zhen Dong et al.**, **2004a:65139**
Zhu, Qi-ding *see* **He, Wen Ming et al.**, **2004i:65106**

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65N35 Spectral, collocation and related methods

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Aitbayev, Rakhim (*with* Bialecki, Bernard) A preconditioned conjugate gradient method for nonselfadjoint or indefinite orthogonal spline collocation problems. (English summary) **2004j:65194**
Akhmouch, M. (*with* Guessous, N.) High-order analytical nodal method for the multigroup diffusion equations. (English summary)
Aluru, N. R. *see* **Jin, Xiaozhong et al.**, **2004m:65208**
Averbuch, Amir Z. *see* **Israeli, Moshe et al.**, (**2004e:65003**) *and* **Braverman, Elena et al.**
Awan, M. Aslam (*with* Ahmed, Shahzad) Fourier series solutions to Poisson's problems in rectangularly decomposable regions. (English summary) **2004m:65207**
Azaïez, Mejdi (*with* Ben Belgacem, Faker; Bernardi, Christine) Mortar spectral element discretization of Darcy's equations. (*see* **2004e:65003**)
Bathe, Klaus-Jürgen *see* **De, Suvranu et al.**, **2004d:65148**
Belhachmi, Zakaria (*with* Bernardi, Christine; Karageorghis, Andreas) Spectral element discretization of the circular driven cavity. III. The Stokes equations in primitive variables. (English summary) **2004b:65195**
Ben Belgacem, Faker *see* **Azaïez, Mejdi et al.**, (**2004e:65003**)
Bernardi, Christine *see* **Belhachmi, Zakaria et al.**, **2004b:65195** *and* **Azaïez, Mejdi et al.**, (**2004e:65003**)
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— *see also* **Aitbayev, Rakhim**, **2004j:65194**
Böhmer, Klaus (*with* Dahlke, Stephan) Stability and convergence for discretization methods with applications to wavelet Galerkin schemes. (English summary) **2004e:65134**
Braverman, Elena (*with* Epstein, Boris; Israeli, Moshe; Averbuch, Amir Z.) A fast spectral subtractional solver for elliptic equations. (English summary)
— *see also* **Israeli, Moshe et al.**, (**2004e:65003**)
Cardona, Alberto *see* **Zuppa, Carlos**, **2004e:65136**
Chacón, J. M. *see* **Herrero, Henar et al.**, **2004b:65197**
Chen, Ching Shyang *see* **Li, Jichun**, **2004c:65153**
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Cheng, A. H.-D. (*with* Golberg, M. A.; Kansa, E. J.; Zammito, G.) Exponential convergence and *h*-*c* multiquadric collocation method for partial differential equations. (English summary) **2004g:65164**
Cheng, J. Q. *see* **Li, Hua**[4] **et al.**, **2004m:65209**
Chiba, Fumihiro *see* **Ushijima, Teruo**, **2004f:65200**
Christara, Christina C. (*with* Ng, Kit Sun) Fast Fourier transform solvers and preconditioners for quadratic spline collocation. (English summary) **2004a:65161**
Dahlke, Stephan *see* **Böhmer, Klaus**, **2004e:65134**
De, Suvranu (*with* Hong, Jung-Wuk; Bathe, Klaus-Jürgen) On the method of finite spheres in applications: towards the use with ADINA and in a surgical simulator. (English summary) **2004d:65148**
Donoso, Alberto *see* **Herrero, Henar et al.**, **2004b:65197**
Dryja, Maksymilian *see* **Bialecki, Bernard**, **2004k:65232**
Dutt, Pravir (*with* Tomar, Satyendra) Stability estimates for *h*-*p* spectral element methods for general elliptic problems on curvilinear domains. (English summary) **2004j:65196**
Emmel, L. (*with* Kaber, Sidi Mahmoud; Maday, Yvon) Padé-Jacobi filtering for spectral approximations of discontinuous solutions. (English summary) **2004k:65233**
Epstein, Boris *see* **Braverman, Elena et al.**
Evans, Gwynne *see* **Meng, Sha et al.**, (**2004j:00012**)
Fairweather, Graeme *see* **Bialecki, Bernard et al.**, **2004b:65196**
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Fornberg, Bengt *see* **Larsson, Elisabeth**, **2004k:65235**
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Gáspár, Csaba Fast multi-level meshless methods based on the implicit use of radial basis functions. (English summary) (*see* **2004d:65005**)
Golberg, M. A. *see* **Cheng, A. H.-D. et al.**, **2004g:65164**
Guessous, N. *see* **Akhmouch, M.**
Guo, Ben Yu (*with* Shen, Jie[1]; Xu, Cheng-Long) Spectral and pseudospectral approximations using Hermite functions: application to the Dirac equation. (English summary) **2004i:65129**
— *see also* **Wang, Li-Lian**, **2004a:65162**
Heinrichs, Wilhelm Least-squares spectral collocation for the Navier-Stokes equations. (English summary)
Herrero, Henar (*with* Hoyas, S.; Donoso, Alberto; Mancho, Ana M.; Chacón, J. M.; Portugués, R. F.; Yeste, B.) Chebyshev collocation for a convective problem in primitive variable formulation. (English summary) **2004b:65197**
Hickernell, Fred J. *see* **Li, Dong**[2], **2004j:65198**
Hong, Jung-Wuk *see* **De, Suvranu et al.**, **2004d:65148**
Hoyas, S. *see* **Herrero, Henar et al.**, **2004b:65197**
Huang, Wei Zhang[1] (*with* Ma, He-Ping; Sun, Weiwei) Convergence analysis of spectral collocation methods for a singular differential equation. (English summary) **2004k:65234**
Israeli, Moshe (*with* Braverman, Elena; Averbuch, Amir Z.) A hierarchical domain decomposition method with low communication overhead. (*see* **2004e:65003**)
— *see also* **Braverman, Elena et al.**
Jin, Xiaozhong (*with* Li, Gang; Aluru, N. R.) Positivity conditions in meshless collocation methods. (English summary) **2004m:65208**
Kaber, Sidi Mahmoud *see* **Emmel, L. et al.**, **2004k:65233**

Kansa, E. J. *see* **Cheng, A. H.-D. et al., 2004g:65164**
Karageorghis, Andreas *see* **Belhachmi, Zakaria et al., 2004b:65195** *and* **Bialecki, Bernard et al., 2004b:65196**
Kidder, Lawrence E. *see* **Pfeiffer, Harald P. et al., 2004c:65154**
Kim, Do Wan (*with* Kim, Yongsik) Point collocation methods using the fast moving least-square reproducing kernel approximation. (English summary) **2004b:65198**
Kim, Sang Dong (*with* Lee, Hyung-Chun; Shin, Byeong Chun) Least-squares spectral collocation method for the Stokes equations. (English summary) **2004j:65197**
Kim, Yongsik *see* **Kim, Do Wan, 2004b:65198**
Lam, Kwok-Yan *see* **Li, Hua[4] et al., 2004m:65209**
Larsson, Elisabeth (*with* Fornberg, Bengt) A numerical study of some radial basis function based solution methods for elliptic PDEs. (English summary) **2004k:65235**
Lee, Hyung-Chun *see* **Kim, Sang Dong et al., 2004j:65197**
Li, Dong[2] (*with* Hickernell, Fred J.) Trigonometric spectral collocation methods on lattices. (English summary) **2004j:65198**
Li, Gang *see* **Jin, Xiaozhong et al., 2004m:65208**
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Li, Jichun (*with* Chen, Ching Shyang) Some observations on unsymmetric radial basis function collocation methods for convection-diffusion problems. (English summary) **2004c:65153**
Li, Xin Kai *see* **Meng, Sha et al., (2004j:00012)**
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Ma, Fu Ming *see* **Feng, Li Xin**
Ma, He-Ping *see* **Huang, Wei Zhang[1] et al., 2004k:65234**
Maday, Yvon *see* **Emmel, L. et al., 2004k:65233**
Mancho, Ana M. *see* **Herrero, Henar et al., 2004b:65197**
Matsuo, Takayasu *see* **Sugihara, Masaaki**
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Ng, Kit Sun *see* **Christara, Christina C., 2004a:65161**
Ng, T. Y. *see* **Li, Hua[4] et al., 2004m:65209**
Pfeiffer, Harald P. (*with* Kidder, Lawrence E.; Scheel, Mark A.; Teukolsky, Saul A.) A multidomain spectral method for solving elliptic equations. (English summary) **2004c:65154**
Portugués, R. F. *see* **Herrero, Henar et al., 2004b:65197**
Proot, Michael M. J. *see* **Louter-Nool, Margreet, (2004j:00012)**
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65N38 Boundary element methods

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— Boundary element methods for eddy current computation. (English summary) **2004g:78033**
— Coupling of finite elements and boundary elements in electromagnetic scattering. (English summary) **2004i:65121**
Honnor, M. E. (*with* Davies, Alan J.; Kane, S. J.) Nonlinear transient field problems with phase change using the generalized Newmark dual reciprocity boundary element method. (English summary) (*see* **2004k:65004**)
Ingham, D. B. *see* **Marin, Liviu et al.**, **2004f:65169**
Jin, Jian-Ming ★ The finite element method in electromagnetics. (English summary) **2004b:78019**
Johnston, Barbara M. (*with* Johnston, Peter R.) A comparison of transformation methods for evaluating two-dimensional weakly singular integrals. (English summary) **2004a:65023**
Johnston, Peter R. *see* **Johnston, Barbara M.**, **2004a:65023**
Kane, S. J. *see* **Honnor, M. E. et al.**, (**2004k:65004**)
Kaplan, Theodore *see* **Phan, A.-V. et al.**
Kassab, A. J. *see* **Divo, E. A.**, **2004a:65002**
Khoromskiĭ, B. N. Data-sparse elliptic operator inverse based on explicit approximation to the Green function. (English summary) **2004h:65123**
Lesnic, Daniel *see* **Marin, Liviu et al.**, **2004f:65169**
Loeffler, C. F. *see* **Velázquez Castillo, G. A.**, (**2004k:65004**)
Marin, Liviu (*with* Lesnic, Daniel) A regularization method for the numerical solution of the Cauchy problem for the Helmholtz equation. (English summary)
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Matsumoto, Toshiro *see* **Tanaka, Masataka et al.**, (**2004k:65004**)
Meddahi, Salim (*with* Selgas, Virginia) A mixed-FEM and BEM coupling for a three-dimensional eddy current problem. (English summary) **2004f:78007**
Meijer, Han E. H. *see* **Bazhlekov, Ivan B. et al.**, (**2004h:00025**)
Mikhas′kīv, V. V. (*with* Zhuravchak, L. M.; Fītel′, G. V.) Application of boundary and near-boundary elements in a two-dimensional model of nonstationary heat conduction. (Ukrainian. English, Russian and Ukrainian summaries) **2004i:80022**
Ohura, Yoko *see* **Hayashi, Keisuke et al.**, **2004f:65167**
Onishi, Kazuei *see* **Hayashi, Keisuke et al.**, **2004f:65167**
Ostrowski, J. *see* **Hiptmair, Ralf**, **2004h:57030** *and* **Börm, Steffen**, **2004i:78005**
Paiva, Freddy *see* **Harbrecht, Helmut et al.**, **2004g:65035**
Peratta, A. (*with* Popov, Viktor) Modelling flow and solute transport in fractured porous media. (English summary) (*see* **2004k:65004**)
Pérez, Cristian *see* **Harbrecht, Helmut et al.**, **2004g:65035**
Phan, A.-V. (*with* Gray, L. J.; Kaplan, Theodore) On the residue calculus evaluation of the 3-D anisotropic elastic Green's function. (English summary)
(Poljak, D.) *see* **Boundary elements XXV**, **2004k:65004**
Polyzos, D. *see* **Tsepoura, K. G. et al.**, **2004f:74091**
Popov, Viktor *see* **Peratta, A.**, (**2004k:65004**)
Rapún, María-Luisa *see* **Celorrio, Ricardo et al.**, (**2004j:35006**)
(Rashed, Y. F.) *see* **Transformation of domain effects to the boundary**, **2004h:74034**
(Roje, V.) *see* **Boundary elements XXV**, **2004k:65004**
Salvadori, Alberto *see* **Aimi, A. et al.**, **2004j:74121**
Samec, N. *see* **Škerget, L.**, (**2004k:65004**)
dos Santos, Paulo Fernando Antunes (*with* Tadeu, A.) 2D seismic response in an elastic half-space confined by a fluid via BEM. (English summary) (*see* **2004k:65004**)
Savaidis, A. *see* **Zhang, Chuanzeng**
Sayah, Toni Boundary conditions for the electromagnetic scattering by thin layers. (English summary) **2004b:35323**
— *see also* **Abboud, Toufic**, **2004b:78011**
Sayas, Francisco-Javier A nodal coupling of finite and boundary elements. (English summary) **2004g:65160**
— *see also* **Celorrio, Ricardo et al.**, (**2004j:35006**)
Schnack, E. *see* **Chen, Haibo et al.**, **2004e:74085**
Schneider, Reinhold *see* **Harbrecht, Helmut et al.**, **2004g:65035** *and* **Gatica, Gabriel N. et al.**, **2004k:65220**
Selgas, Virginia *see* **Meddahi, Salim**, **2004f:78007**
Shen, Shih-yu An indirect elastodynamic boundary element method with analytic bases. (English summary) **2004d:74082**
Sheu, G. Y. Finding displacement and stress distributions on a fault plane. (English summary) (*see* **2004k:65004**)
Shi, Yan *see* **Chen, Yiming et al.**, **2004k:74098**
Škerget, L. (*with* Samec, N.) BEM for compressible fluid dynamics. (English summary) (*see* **2004k:65004**)
Stephan, Ernst P. *see* **Heuer, Norbert**, **2004d:65156**
Syngellakis, S. (*with* Wu, J.) Boundary element applications to polymer fracture. (English summary) (*see* **2004k:65004**)
Tadeu, A. *see* **dos Santos, Paulo Fernando Antunes**, (**2004k:65004**)
Takakuwa, Susumu *see* **Tanaka, Masataka et al.**, (**2004k:65004**)
Tanaka, Masataka (*with* Matsumoto, Toshiro; Takakuwa, Susumu) Dual reciprocity BEM based on time-stepping scheme for the solution of transient heat conduction problems. (English summary) (*see* **2004k:65004**)
Tsepoura, K. G. (*with* Tsinopoulos, S. V.; Polyzos, D.; Beskos, D. E.) A boundary element method for solving 2-D and 3-D static gradient elastic problems. II. Numerical implementation. (English summary) **2004f:74091**
Tsinopoulos, S. V. *see* **Tsepoura, K. G. et al.**, **2004f:74091**
Velázquez Castillo, G. A. (*with* Loeffler, C. F.) Performance evaluation of some new time integration methods in elastodynamic problems formulated by dual reciprocity boundary element method. (English summary) (*see* **2004k:65004**)
Vitanza, Carmela Elastic-plastic problems. (English summary) (*see* **2004k:65004**)
Volkov, Darko *see* **Ammari, Habib**, **2004g:78014**
van de Vosse, Frans N. *see* **Bazhlekov, Ivan B. et al.**, (**2004h:00025**)
Wen, Xian Yun *see* **Marin, Liviu et al.**, **2004f:65169**
Wu, J. *see* **Syngellakis, S.**, (**2004k:65004**)
Yu, De Hao ★ Natural boundary integral method and its applications. **2004d:65001**
— *see also* **Chen, Haibo et al.**, **2004e:74085**
Zhang, Chuanzeng (*with* Savaidis, A.) 3-D transient dynamic crack analysis by a novel time-domain BEM. (English summary)
Zhuravchak, L. M. *see* **Mikhas′kīv, V. V. et al.**, **2004i:80022**

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Boundary elements XXV ★ Boundary elements XXV. **2004k:65004**
Split ★ Boundary elements XXV. **2004k:65004**
Transformation of domain effects to the boundary ★ Transformation of domain effects to the boundary. **2004h:74034**

65N50 Mesh generation and refinement

Aiffa, M. (*with* Flaherty, Joseph E.) A geometrical approach to mesh smoothing. (English summary) **2004i:65134**
Apel, Thomas (*with* Düvelmeyer, N.) Transformation of hexahedral finite element meshes into tetrahedral meshes according to quality criteria. (English summary) **2004k:65241**
— (*with* Grosman, Sergei; Jimack, Peter K.; Meyer, Arnd) A new methodology for anisotropic mesh refinement based upon error gradients. (English summary)
Appa Rao, T. V. S. R. *see* **Rao, A. Rama Mohan et al.**
Arina, Renzo Orthogonal and conformal surface grid generation. (English summary)
Asvadurov, Sergey (*with* Druskin, Vladimir; Guddati, Murthy N.; Knizhnerman, Leonid) On optimal finite-difference approximation of PML. (English summary) **2004e:65138**
Azarenok, Boris N. Computation of an explosion on an adaptive moving grid. (Russian. Russian summary) **2004c:65156**
Baker, Timothy J. *see* **Pébay, Philippe P.**, **2004g:65169**
Bank, Randolph E. (*with* Xu, Jinchao) Asymptotically exact a posteriori error estimators. II. General unstructured grids. (English summary) **2004m:65212**
— (*with* Holst, Michael Jay) A new paradigm for parallel adaptive meshing algorithms. (English summary)

Bertoluzza, Silvia (*with* Mazet, S.; Verani, Marco) A nonlinear Richardson algorithm for the solution of elliptic PDE's. (English summary) **2004c:65157**
Biswas, Rupak *see* **Djomehri, M. Jahed**
Bobylëv, N. A. (*with* Ivanenko, Sergeĭ Aleksandrovich; Kazunin, A. V.) On piecewise-smooth homeomorphic mappings of bounded domains and their applications to the theory of grids. (Russian. Russian summary) **2004c:65158**
Borouchaki, Houman *see* **George, Paul-Louis et al.**, (**2004j:65005**)
Bottasso, Carlo L. Anisotropic mesh adaption by metric-driven optimization. (English summary)
Brezzi, Franco (*with* Marini, Luisa Donatella) Subgrid phenomena and numerical schemes. (English summary) (*see* **2004d:65003**)
Bronina, T. N. (*with* Gasilova, I. A.; Ushakova, O. V.) Algorithms for constructing three-dimensional structured grids. (Russian. Russian summary) **2004i:65135**
Cao, Weiming (*with* Carretero-González, Ricardo; Huang, Wei Zhang[1]; Russell, Robert D.) Variational mesh adaptation methods for axisymmetrical problems. (English summary) **2004d:65154**
Carretero-González, Ricardo *see* **Cao, Weiming et al.**, **2004d:65154**
Charakhch′yan, A. A. *see* **Gryn′, V. I. et al.**
Chen, Ke[1] *see* **Shanazari, Kamal**, **2004e:65142**
Cheng, Ai Guo (*with* Xie, Hui[2]; Zhong, Zhi Hua; Li, Guang Yao) Optimization of triangular meshes based on discrete points on surfaces of autobody. (Chinese. English summary) **2004f:65203**
Chou, So-Hsiang (*with* He, Songnian) On the regularity and uniformness conditions on quadrilateral grids. (English summary) **2004g:65167**
Chumakov, Gennadii A. On 2D quasi-isometric regular grids that are orthogonal far from corners. (English summary)
Codd, A. L. (*with* Manteuffel, T. A.; McCormick, Stephen F.; Ruge, J. W.) Multilevel first-order system least squares for elliptic grid generation. (English summary) **2004j:65203**
Cohen, Albert Adaptive methods for PDEs: wavelets or mesh refinement? (English summary) **2004e:65139**
Coudière, Yves *see* **Dervieux, Alain et al.**, **2004k:65242** *and* (**2004d:76003**)
Dattaguru, B. *see* **Rao, A. Rama Mohan et al.**
Demkowicz, Leszek *see* **Šolín, Pavel**, **2004k:65247**
Dervieux, Alain (*with* Leservoisier, David; Palmerio, B.; Coudière, Yves) Isotropic and anisotropic adaptive meshes: models and convergence properties. (English summary) (*see* **2004d:76003**)
— (*with* Leservoisier, David; George, Paul-Louis; Coudière, Yves) About theoretical and practical impact of mesh adaptation on approximation of functions and PDE solutions. (English summary) **2004k:65242**
Djidjev, Hristo N. Force-directed methods for mesh improvement. (English summary) **2004m:65213**
Djomehri, M. Jahed (*with* Biswas, Rupak) Performance enhancement strategies for multi-block overset grid CFD applications. (English summary)
Douglas, Craig C. (*with* Hu, Jonathan J.; Ray, Jaideep; Thorne, Dan T.; Tuminaro, Raymond S.) Fast, adaptively refined computational elements in 3D. (English summary) (*see* **2004j:00014**)
Druskin, Vladimir *see* **Asvadurov, Sergey et al.**, **2004e:65138**
Du, Qiang (*with* Wang, Desheng) Tetrahedral mesh generation and optimization based on centroidal Voronoi tessellations. (English summary) **2004a:65165**
— (*with* Gunzburger, Max D.; Ju, Lili) Constrained centroidal Voronoi tessellations for surfaces. (English summary) **2004d:65155**
Düvelmeyer, N. *see* **Apel, Thomas**, **2004k:65241**
Escobar, José María *see* **Montenegro, Rafael et al.**, (**2004j:00012**)
Flaherty, Joseph E. *see* **Aiffa, M.**, **2004i:65134**
Floater, Michael S. One-to-one piecewise linear mappings over triangulations. (English summary) **2004k:65243**
Fortin, Michel Anisotropic mesh adaptation through hierarchical error estimators. (English summary) (*see* **2004h:00025**)
Frey, Pascal Jean *see* **George, Paul-Louis et al.**, (**2004j:65005**)
Frolova, A. A. *see* **Gryn′, V. I. et al.**
Fuhrmann, Jürgen (*with* Petzoldt, Martin) Robust error estimators for interface problems occuring in transport processes in porous media. (*see* **2004d:00011**)
Gasilova, I. A. *see* **Bronina, T. N. et al.**, **2004i:65135**
George, Paul-Louis (*with* Frey, Pascal Jean; Laug, Patrick; Borouchaki, Houman) Curve and surface meshing for finite element applications. (English summary) (*see* **2004j:65005**)
— (*with* Borouchaki, Houman; Saltel, E.) 'Ultimate' robustness in meshing an arbitrary polyhedron. (English summary)
— *see also* **Dervieux, Alain et al.**, **2004k:65242**
González-Yuste, José María *see* **Montenegro, Rafael et al.**, (**2004j:00012**)
Grosman, Sergei *see* **Apel, Thomas et al.**
Gruzdev, D. V. *see* **Shevchenko, V. N.**, **2004k:65246**
Gryn′, V. I. (*with* Frolova, A. A.; Charakhch′yan, A. A.) A barrier-type grid generator and its application for computing flows with moving boundaries. (Russian. Russian summary)
Guddati, Murthy N. *see* **Asvadurov, Sergey et al.**, **2004e:65138**
Gunzburger, Max D. *see* **Du, Qiang et al.**, **2004d:65155**
Hagen, Hans *see* **Weber, Gunther H. et al.**
Hamann, Bernd *see* **Weber, Gunther H. et al.**
Hansbo, Peter *see* **Hermansson, J.**, **2004i:65136**
He, Songnian *see* **Chou, So-Hsiang**, **2004g:65167**
Hermansson, J. (*with* Hansbo, Peter) A variable diffusion method for mesh smoothing. (English summary) **2004i:65136**
Hitschfeld, N. *see* **Rivara, Maria-Cecilia**, (**2004j:35006**)
Hoffman, Johan Subgrid modeling for convection-diffusion-reaction in two space dimensions using a Haar multiresolution analysis. (English summary) **2004k:65244**
Holst, Michael Jay *see* **Bank, Randolph E.**
Hu, Jian Wei *see* **Tian, Chun Song**
Hu, Jonathan J. *see* **Douglas, Craig C. et al.**, (**2004j:00014**)
Huang, Wei Zhang[1] *see* **Cao, Weiming et al.**, **2004d:65154**
Huerta, Antonio *see* **Sarrate, Josep et al.**
Ivanenko, Sergeĭ Aleksandrovich Variational methods for constructing adaptive grids. (Russian. Russian summary) **2004f:65204**
— *see also* **Bobylëv, N. A. et al.**, **2004c:65158**
Jimack, Peter K. *see* **Apel, Thomas et al.**
Joy, Kenneth I. *see* **Weber, Gunther H. et al.**
Ju, Lili *see* **Du, Qiang et al.**, **2004d:65155**
Kaul, Upender K. New boundary constraints for elliptic systems used in grid generation problems. (English summary) **2004g:65168**
Kazunin, A. V. *see* **Bobylëv, N. A. et al.**, **2004c:65158**
Knizhnerman, Leonid *see* **Asvadurov, Sergey et al.**, **2004e:65138**
Korotov, Sergey (*with* Křížek, Michal) Local nonobtuse tetrahedral refinements of a cube. (English summary)
Kreylos, Oliver *see* **Weber, Gunther H. et al.**
Křížek, Michal *see* **Korotov, Sergey**
Kwon, Kie-Chan *see* **Park, Sang-Hoon et al.**, **2004i:65137**
Lapenta, Giovanni A recipe to detect the error in discretization schemes. (English summary)
— Variational grid adaptation based on the minimization of local truncation error: time-independent problems. (English summary) **2004j:65204**
Laug, Patrick *see* **George, Paul-Louis et al.**, (**2004j:65005**)
Lazarov, Raytcho D. (*with* Pasciak, Joseph E.; Schöberl, Joachim; Vassilevski, Panayot S.) Almost optimal interior penalty discontinuous approximations of symmetric elliptic problems on non-matching grids. (English summary) **2004j:65205**
Lebedev, A. S. (*with* Liseikin, Vladimir D.) Implementation of generalized Laplace equations in numerical grid technology. (English summary) **2004k:65245**
Lee, Barry (*with* McCormick, Stephen F.; Philip, Bobby; Quinlan, Daniel J.) Asynchronous fast adaptive composite-grid methods for elliptic problems: theoretical foundations. (English summary) **2004m:65214**
Leservoisier, David *see* **Dervieux, Alain et al.**, **2004k:65242** *and* (**2004d:76003**)
Li, Guang Yao *see* **Cheng, Ai Guo et al.**, **2004f:65203**
Li, Ke (*with* Wu, Zi-Niu) Nonet-Cartesian grid method for shock flow computations. (English summary)
Liao, Guojun G. (*with* Pan, Tsorng-Whay; de la Pena, G. C.; Su, Jianzhong) Deformation method and its application to surface grid generation. (English summary) **2004h:65127**
Ligocki, Terry J. *see* **Weber, Gunther H. et al.**
Linß, Torsten Layer-adapted meshes for convection-diffusion problems. (English summary) **2004a:65166**
Lipnikov, Konstantin *see* **Vasilevskiĭ, Yu. V.**, **2004f:65205**
Liseikin, Vladimir D. A geometric analysis of the properties of difference grids. (Russian) **2004a:65167**
— On analysis of clustering of numerical grids produced by elliptic models. (English summary) **2004e:65140**
— On geometric methods in the theory of difference grids. (Russian. Russian summary) **2004j:65206**
— *see also* **Lebedev, A. S.**, **2004k:65245**
Liu, Gui-Rong ★ Mesh free methods. **2004e:65141**
Manteuffel, T. A. *see* **Codd, A. L. et al.**, **2004j:65203**
Marini, Luisa Donatella *see* **Brezzi, Franco**, (**2004d:65003**)
Mazet, S. *see* **Bertoluzza, Silvia et al.**, **2004c:65157**
McCormick, Stephen F. *see* **Codd, A. L. et al.**, **2004j:65203** *and* **Lee, Barry et al.**, **2004m:65214**
Meyer, Arnd Stable evaluation of Jacobian matrices on highly refined finite element meshes. (English summary) **2004m:65215**
— *see also* **Apel, Thomas et al.**
Montenegro, Rafael (*with* Montero García, Gustavo; Escobar, José María; Rodriguez Barrier, Eduardo Miguel; González-Yuste, José María) Tetrahedral mesh generation for environmental problems over complex terrains. (English summary) (*see* **2004j:00012**)
Montero García, Gustavo *see* **Montenegro, Rafael et al.**, (**2004j:00012**)
Palau, J. *see* **Sarrate, Josep et al.**
Palmerio, B. *see* **Dervieux, Alain et al.**, (**2004d:76003**)
Pan, Tsorng-Whay *see* **Liao, Guojun G. et al.**, **2004h:65127**
Park, Sang-Hoon (*with* Kwon, Kie-Chan; Youn, Sung-Kie) A posteriori error estimates and an adaptive scheme of least-squares meshfree method. (English summary) **2004i:65137**
Pasciak, Joseph E. *see* **Lazarov, Raytcho D. et al.**, **2004j:65205**
Pébay, Philippe P. (*with* Baker, Timothy J.) Analysis of triangle quality measures. (English summary) **2004g:65169**
de la Pena, G. C. *see* **Liao, Guojun G. et al.**, **2004h:65127**
Petzoldt, Martin *see* **Fuhrmann, Jürgen**, (**2004d:00011**)
Pfaum, Christoph (*with* Seider, David) Efficient implementation of operators on semi-unstructured grids. (English summary) (*see* **2004j:00014**)
Philip, Bobby *see* **Lee, Barry et al.**, **2004m:65214**
Quinlan, Daniel J. *see* **Lee, Barry et al.**, **2004m:65214**
Rao, A. Rama Mohan (*with* Appa Rao, T. V. S. R.; Dattaguru, B.) Generating optimised partitions for parallel finite element computations employing float-encoded genetic algorithms. (English summary)
Ray, Jaideep *see* **Douglas, Craig C. et al.**, (**2004j:00014**)
Ren, Wei-qing (*with* Wang, Xiao Ping[1]) A new adaptive grid method based on iterative grid redistribution. (English summary) **2004b:65199**
Rivara, Maria-Cecilia (*with* Hitschfeld, N.) Terminal-edge algorithms: an integrated approach for mesh generation. (*see* **2004j:35006**)
Rodriguez Barrier, Eduardo Miguel *see* **Montenegro, Rafael et al.**, (**2004j:00012**)
Ruge, J. W. *see* **Codd, A. L. et al.**, **2004j:65203**
Russell, Robert D. *see* **Cao, Weiming et al.**, **2004d:65154**
Saltel, E. *see* **George, Paul-Louis et al.**
Sarrate, Josep (*with* Palau, J.; Huerta, Antonio) Numerical representation of the quality measures of triangles and triangular meshes. (English summary)
Schöberl, Joachim *see* **Lazarov, Raytcho D. et al.**, **2004j:65205**
Seider, David *see* **Pfaum, Christoph**, (**2004j:00014**)
Shalf, John M. *see* **Weber, Gunther H. et al.**

Shanazari, Kamal (*with* Chen, Ke[1]) A minimal distance constrained adaptive mesh algorithm with application to the dual reciprocity method. (English summary) **2004e:65142**

Shevchenko, V. N. (*with* Gruzdev, D. V.) A modification of the Fourier-Motskin algorithm for constructing a triangulation. (Russian. Russian summary) **2004k:65246**

Šolín, Pavel (*with* Demkowicz, Leszek) Goal-oriented *hp*-adaptivity for elliptic problems. (English summary) **2004k:65247**

Sorokin, A. M. *see* **Vladimirova, N. A.**

(Spitaleri, R. M.) *see* **Applied numerical computing: grid generation and solution methods for advanced simulations**

Su, Jianzhong *see* **Liao, Guojun G. et al., 2004h:65127**

Tan, Dongyao Mesh matching and contact patch test. (English summary)

Thiele, Frank *see* **Wick, Andreas, (2004k:65005)**

Thorne, Dan T. *see* **Douglas, Craig C. et al., (2004j:00014)**

Tian, Chun Song (*with* Hu, Jian Wei) Elastic mesh deformation method and its application. (Chinese. English summary)

Tuminaro, Raymond S. *see* **Douglas, Craig C. et al., (2004j:00014)**

Ushakova, O. V. *see* **Bronina, T. N. et al., 2004i:65135**

Vasilevskiĭ, Yu. V. (*with* Lipnikov, Konstantin) Optimal triangulations: existence, approximations and double differentiation of P_1 finite element functions. (Russian. Russian summary) **2004f:65205**

Vassilevski, Panayot S. *see* **Lazarov, Raytcho D. et al., 2004j:65205**

Verani, Marco *see* **Bertoluzza, Silvia et al., 2004c:65157**

Vladimirova, N. A. (*with* Sorokin, A. M.) Anisotropic adaptation of three-dimensional irregular grids in problems of computational gas dynamics. (Russian. Russian summary)

Wang, Desheng *see* **Du, Qiang, 2004a:65165**

Wang, Xiao Ping[1] *see* **Ren, Wei-qing, 2004b:65199**

Weber, Gunther H. (*with* Kreylos, Oliver; Ligocki, Terry J.; Shalf, John M.; Hagen, Hans; Hamann, Bernd; Joy, Kenneth I.) Extraction of crack-free isosurfaces from adaptive mesh refinement data. (English summary)

Wick, Andreas (*with* Thiele, Frank) Dynamic mesh generation with grid quality preserving methods. (English summary) (*see* **2004k:65005**)

Wu, Zi-Niu *see* **Li, Ke**

Xie, Hui[2] *see* **Cheng, Ai Guo et al., 2004f:65203**

Xu, Jinchao *see* **Bank, Randolph E., 2004m:65212**

Youn, Sung-Kie *see* **Park, Sang-Hoon et al., 2004i:65137**

Zhan, Wuping *see* **Zhou, Shu Zi**

Zhong, Zhi Hua *see* **Cheng, Ai Guo et al., 2004f:65203**

Zhou, Shu Zi (*with* Zhan, Wuping) A new domain decomposition method for an HJB equation. (English summary)

Items listed otherwise than by author

Applied numerical computing: grid generation and solution methods for advanced simulations ★ Applied numerical computing: grid generation and solution methods for advanced simulations.

Items with secondary classifications in 65N50

Achatz, Stefan (*with* Zenger, Christoph) Higher order sparse grid methods for elliptic partial differential equations. (English summary) (*see* **2004j:65005**)

Adolph, Torsten *see* **Schönauer, Willi**

Alouges, François (*with* Laminie, J.; Mefire, S. M.) Exponential meshes and three-dimensional computation of a magnetic field. (English summary) **2004g:78034**

Bangerth, Wolfgang (*with* Rannacher, Rolf) ★ Adaptive finite element methods for differential equations. **2004b:65002**

Bänsch, Eberhard (*with* Morin, Pedro; Nochetto, Ricardo H.) An adaptive Uzawa FEM for the Stokes problem: convergence without the inf-sup condition. (English summary) **2004e:65127**

Bartsch, Guido (*with* Wulf, Christian) Adaptive multigrid for Helmholtz problems. (English summary)

Baum, Joseph D. *see* **Sharov, D. M. et al.**

Binev, Petăr G. (*with* Dahmen, Wolfgang; DeVore, Ronald A.; Petrushev, Pencho) Approximation classes for adaptive methods. (English summary) **2004b:65176**

Bondeson, A. *see* **Ingelström, P., 2004f:65186**

Braack, Malte (*with* Ern, Alexandre) A posteriori control of modeling errors and discretization errors. (English summary) **2004f:65165**

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— (*with* Weinberg, Kerstin) An adaptive non-conforming finite-element method for Reissner-Mindlin plates. (English summary) **2004i:74102**

Chen, Jiun-Shyan *see* **Lu, Hongsheng, (2004d:65005)**

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Chen, Tsu-Fen (*with* Ke, Miao-Chen) Nonlinear SOR and mesh redistribution. (English summary) **2004f:65081**

Codd, A. L. (*with* Manteuffel, T. A.; McCormick, Stephen F.) Multilevel first-order system least squares for nonlinear elliptic partial differential equations. (English summary) **2004j:65173**

Dahmen, Wolfgang *see* **Binev, Petăr G. et al., 2004b:65176**

Daněk, Josef Domain decomposition method for contact problems with small range contact. (English summary) **2004e:74086**

Demkowicz, Leszek *hp*-adaptive finite elements for Maxwell's equations. (English summary) (*see* **2004b:78001**)

— *hp*-adaptive finite elements for time-harmonic Maxwell equations. (English summary) **2004k:78027**

DeVore, Ronald A. Adaptive numerical methods for PDEs. (English and French summaries) **2004k:41034**

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Du, Qiang (*with* Gunzburger, Max D.; Ju, Lili) Voronoi-based finite volume methods, optimal Voronoi meshes, and PDEs on the sphere. (English summary) **2004g:65142**

Dunca, Adrian (*with* John, Volker; Layton, William J.) Approximating local averages of fluid velocities: The equilibrium Navier-Stokes equations. (English summary) **2004k:76068**

Engquist, Björn (*with* Runborg, Olof) Projection generated homogenization. (English summary) **2004i:35026**

Ern, Alexandre *see* **Burman, Erik et al., 2004c:80018; 2004m:80013** *and* **Braack, Malte, 2004f:65165**

Eroshin, A. E. Investigation of the convergence rate of the multigrid method on quasinested adaptive grids. (English summary) **2004k:65249**

Ethier, C. R. *see* **Zeng, Dehong**

Fang, Qing (*with* Shogenji, Yukihiro; Yamamoto, Tetsuro) Error analysis of adaptive finite difference methods using stretching functions for polar coordinate form of Poisson-type equation. (English summary) **2004g:65143**

Farhat, Charbel (*with* Wiedemann-Goiran, Paul; Tezaur, Radek) A discontinuous Galerkin method with plane waves and Lagrange multipliers for the solution of short wave exterior Helmholtz problems on unstructured meshes. (English summary)

Ferm, Lars (*with* Lötstedt, Per) Anisotropic grid adaptation of Navier-Stokes' equations. (English summary) **2004k:76084**

Fernández-Méndez, Sonia (*with* Huerta, Antonio) Coupling finite elements and particles for adaptivity: an application to consistently stabilized convection-diffusion. (English summary) (*see* **2004d:65005**)

Formaggia, Luca (*with* Perotto, Simona; Zunino, Paolo) An anisotropic a-posteriori error estimate for a convection-diffusion problem. (English summary) **2004a:65150**

— (*with* Perotto, Simona) Anisotropic error estimates for elliptic problems. (English summary) **2004c:65127**

Fulton, Scott R. *see* **Xenophontos, Christos, 2004a:65159**

Giovangigli, Vincent *see* **Burman, Erik et al., 2004c:80018** *and* **2004m:80013**

Globisch, Gerhard The hierarchical preconditioning on unstructured three-dimensional grids with locally refined regions. (English summary) **2004c:65134**

Gunzburger, Max D. *see* **Du, Qiang et al., 2004g:65142**

Haasdonk, B. (*with* Ohlberger, Mario; Rumpf, Martin; Schmidt, Alfred; Siebert, Kunibert G.) Multiresolution visualization of higher order adaptive finite element simulations. (English summary) **2004h:65149**

Hassan, O. *see* **Ledger, P. D. et al., 2004g:78032**

Häussler-Combe, Ulrich *see* **Luo, Yunhua, (2004d:65005)**

Heuveline, Vincent (*with* Rannacher, Rolf) Duality-based adaptivity in the *hp*-finite element method. (English summary) **2004m:65196**

Horák, David *see* **Dostál, Zdeněk**

Huerta, Antonio *see* **Fernández-Méndez, Sonia, (2004d:65005)**

Iliev, Oleg (*with* Tiwari, Sudarshan) A generalized (meshfree) finite difference discretization for elliptic interface problems. (English summary) (*see* **2004j:65007**)

Ingelström, P. (*with* Bondeson, A.) Goal-oriented error estimation and *h*-adaptivity for Maxwell's equations. (English summary) **2004f:65186**

Jang, Jun-Hwan *see* **Yoo, Hyeong, (2004j:00012)**

Jimack, Peter K. (*with* Nadeem, Sarfraz A.) A parallel domain decomposition algorithm for the adaptive finite element solution of 3-D convection-diffusion problems. (English summary) (*see* **2004j:00013**)

Jochimsen, K. *see* **Carstensen, Carsten, 2004k:74093**

John, Volker *see* **Dunca, Adrian et al., 2004k:76068**

Ju, Lili *see* **Du, Qiang et al., 2004g:65142**

Ke, Miao-Chen *see* **Chen, Tsu-Fen, 2004f:65081**

Kirby, Robert Residual a posteriori error estimates for the mixed finite element method. (English summary) **2004h:65112**

Knabner, Peter (*with* Korotov, Sergey; Summ, G.) Conditions for the invertibility of the isoparametric mapping for hexahedral finite elements. (English summary)

Korotov, Sergey *see* **Knabner, Peter et al.** *and* **Stańdo, Jacek et al., (2004j:78002)**

Krawczyk-Stańdo, Dorota *see* **Stańdo, Jacek et al., (2004j:78002)**

Kuznetsov, Yuriĭ Alekseevich[1] (*with* Repin, S. I.) New mixed finite element method on polygonal and polyhedral meshes. (English summary) **2004f:65188**

Laminie, J. *see* **Alouges, François et al., 2004g:78034**

Layton, William J. *see* **Dunca, Adrian et al., 2004k:76068**

Lazarov, Raytcho D. (*with* Tomov, Stanimire) A posteriori error estimates for finite volume element approximations of convection-diffusion-reaction equations. (English summary) **2004b:65166**

Ledger, P. D. (*with* Morgan, Kenneth; Peraire, Jaime; Hassan, O.; Weatherill, N. P.) The development of an *hp*-adaptive finite element procedure for electromagnetic scattering problems. (English summary) **2004g:78032**

Liseikin, Vladimir D. ★ A computational differential geometry approach to grid generation. **2004i:65004**

Liu, Jinn-Liang *see* **Chen, Ren-Chuen, 2004d:82042**

Löhner, Rainald *see* **Sharov, D. M. et al.**

Lötstedt, Per *see* **Ferm, Lars, 2004k:76084**

Lu, Hongsheng (*with* Chen, Jiun-Shyan) Adaptive Galerkin particle method. (English summary) (*see* **2004d:65005**)

Luo, Hong[2] *see* **Sharov, D. M. et al.**

Luo, Yunhua (*with* Häussler-Combe, Ulrich) An adaptivity procedure based on the gradient of strain energy density and its application in meshless methods. (English summary) (*see* **2004d:65005**)

Manteuffel, T. A. *see* **Codd, A. L. et al., 2004j:65173**

McCormick, Stephen F. *see* **Codd, A. L. et al., 2004j:65173**

Mefire, S. M. *see* **Alouges, François et al., 2004g:78034**

Miranda-Valenzuela, J. C. *see* **Muci-Küchler, K. H.**, (**2004k:65004**)
Morgan, Kenneth *see* **Ledger, P. D. et al.**, **2004g:78032**
Morin, Pedro (*with* Nochetto, Ricardo H.; Siebert, Kunibert G.) Local problems on stars: a posteriori error estimators, convergence, and performance. (English summary) **2004d:65129**
— *see also* **Bänsch, Eberhard et al.**, **2004e:65127**
Muci-Küchler, K. H. (*with* Miranda-Valenzuela, J. C.) Comparison of the performance of two error indicators for 2-D elastostatic problems. (English summary) (*see* **2004k:65004**)
Nadeem, Sarfraz A. *see* **Jimack, Peter K.**, (**2004j:00013**)
Negri, Matteo A finite element approximation of the Griffith's model in fracture mechanics. (English summary) **2004k:74097**
Nochetto, Ricardo H. *see* **Morin, Pedro et al.**, **2004d:65129** *and* **Bänsch, Eberhard et al.**, **2004e:65127**
Novotný, Jaroslav *see* **Burda, Pavel et al.**
Oelschläger, Karl Simulation of the solution of a viscous porous medium equation by a particle method. (English summary) **2004b:65010**
Ohlberger, Mario *see* **Haasdonk, B. et al.**, **2004h:65149**
Peraire, Jaime *see* **Ledger, P. D. et al.**, **2004g:78032**
Perotto, Simona *see* **Formaggia, Luca et al.**, **2004a:65150** *and* **2004c:65127**
Petrushev, Pencho *see* **Binev, Petăr G. et al.**, **2004b:65176**
Rannacher, Rolf Adaptive finite element methods for partial differential equations. (English summary) **2004f:65195**
— *see also* **Bangerth, Wolfgang**, **2004b:65002** *and* **Heuveline, Vincent**, **2004m:65196**
Repin, S. I. *see* **Kuznetsov, Yurīĭ Alekseevich**[1], **2004f:65188**
Rieger, Albrecht (*with* Wriggers, Peter) Comparison of different error indicators for contact problems involving large elastic strains. (English summary) **2004g:74054**
Rivière, Béatrice (*with* Wheeler, Mary F.) A posteriori error estimates for a discontinuous Galerkin method applied to elliptic problems. Log number: R74. (English summary) **2004j:65169**
Rudnicki, Marek *see* **Stańdo, Jacek et al.**, (**2004j:78002**)
Rumpf, Martin *see* **Haasdonk, B. et al.**, **2004h:65149**
Runborg, Olof *see* **Engquist, Björn**, **2004i:35026**
Sagona, Manuela (*with* Seghini, Alessandra) An a posteriori error estimate for a semi-Lagrangian scheme for Hamilton-Jacobi equations. (English summary) **2004m:65174**
Schmidt, Alfred *see* **Haasdonk, B. et al.**, **2004h:65149**
Schönauer, Willi (*with* Adolph, Torsten) FDEM: how we make the FDM more flexible than the FEM. (English summary)
Seghini, Alessandra *see* **Sagona, Manuela**, **2004m:65174**
Sharov, D. M. (*with* Luo, Hong[2]; Baum, Joseph D.; Löhner, Rainald) Unstructured Navier-Stokes grid generation at corners and ridges. (English summary)
Shishkin, Grigorii I. Piecewise-uniform grids, optimal with respect to the order of convergence, for singularly perturbed convection-diffusion equations. (Russian) **2004b:65163**
— Numerical methods on adaptive grids for singularly perturbed elliptic equations in a domain with a curvilinear boundary. (Russian) **2004d:65123**
Shishkina, Olga An adaptive method with eliminated boundary conditions for elliptic PDE's. (English summary) (*see* **2004i:00008**)
Shogenji, Yukihiro *see* **Fang, Qing et al.**, **2004g:65143**
Siebert, Kunibert G. *see* **Morin, Pedro et al.**, **2004d:65129** *and* **Haasdonk, B. et al.**, **2004h:65149**
Sousedík, Bedřich *see* **Burda, Pavel et al.**
Stańdo, Jacek (*with* Korotov, Sergey; Rudnicki, Marek; Krawczyk-Stańdo, Dorota) The use of quasi-red and quasi-yellow nonobtuse refinements in the solution of 2-D electromagnetic PDE's. (English summary) (*see* **2004j:78002**)
Summ, G. *see* **Knabner, Peter et al.**
Tezaur, Radek *see* **Farhat, Charbel et al.**
Tiwari, Sudarshan *see* **Iliev, Oleg**, (**2004j:65007**)
Tomov, Stanimire *see* **Lazarov, Raytcho D.**, **2004b:65166**
Weatherill, N. P. *see* **Ledger, P. D. et al.**, **2004g:78032**
Weinberg, Kerstin *see* **Carstensen, Carsten**, **2004i:74102**
Wheeler, Mary F. *see* **Rivière, Béatrice**, **2004j:65169**
Wiedemann-Goiran, Paul *see* **Farhat, Charbel et al.**
Wriggers, Peter *see* **Rieger, Albrecht**, **2004g:74054**
Wulf, Christian *see* **Bartsch, Guido**
Xenophontos, Christos (*with* Fulton, Scott R.) Uniform approximation of singularly perturbed reaction-diffusion problems by the finite element method on a Shishkin mesh. (English summary) **2004a:65159**
Yamamoto, Tetsuro *see* **Fang, Qing et al.**, **2004g:65143**
Yan, Tang (*with* Zheng, Xuan) Adaptive finite element method based on optimal error estimates for linear elliptic problems on concave corner domains (continuation). (English and Chinese summaries)
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Yuldashev, O. I. *see* **Zhidkov, E. P. et al.**, **2004e:78009**
Yuldasheva, M. B. *see* **Zhidkov, E. P. et al.**, **2004e:78009**
Zeng, Dehong (*with* Ethier, C. R.) A mesh-updating scheme for hemodynamic simulations in vessels undergoing large deformations. (English summary)
Zenger, Christoph *see* **Achatz, Stefan**, (**2004j:65005**)
Zheng, Xuan *see* **Yan, Tang**
Zhidkov, E. P. (*with* Yuldashev, O. I.; Yuldasheva, M. B.) An adaptive algorithm for computing a function on the Lipschitzian boundary of a three-dimensional body from a given gradient, and its application in magnetostatics. (Russian. Russian summary) **2004e:78009**
Zunino, Paolo *see* **Formaggia, Luca et al.**, **2004a:65150**

65N55 Multigrid methods; domain decomposition

Aarnes, Jørg (*with* Hou, Thomas Y.) Multiscale domain decomposition methods for elliptic problems with high aspect ratios. (English summary) **2004h:65128**
Achdou, Yves (*with* Japhet, Caroline; Nataf, Frédéric; Maday, Yvon) A new cement to glue non-conforming grids with Robin interface conditions. (English summary) (*see* **2004k:65005**)
— (*with* Japhet, Caroline; Maday, Yvon; Nataf, Frédéric) A new cement to glue non-conforming grids with Robin interface conditions: the finite volume case. (English summary) **2004f:65206**
Akimov, V. V. Additive Schwarz preconditioner for the Neumann problem with a boundary layer. (English summary) **2004f:65207**
Alart, P. (*with* Barboteu, M.; Le Tallec, Patrick; Vidrascu, Marina) Additive Schwarz method for nonsymmetric problems: application to frictional multicontact problems. (*see* **2004e:65003**)
Antonelli, Miranda J. (*with* Chartier, Timothy P.) Improving algebraic multigrid efficiency for immersed interface problems. (English summary)
Avudainayagam, A. (*with* Vani, C.) Wavelet based multigrid methods for linear and nonlinear elliptic partial differential equations. **2004j:65207**
Badea, Lori Convergence rate of a multiplicative Schwarz method for strongly nonlinear variational inequalities. (English summary) **2004g:65170**
Bader, Michael (*with* Zenger, Christoph) A robust and parallel multigrid method for convection diffusion equations. (English summary) **2004g:65171**
Baranger, Jacques (*with* Garbey, M.; Oudin, Fabienne) Recent development on Aitken-Schwarz method. (*see* **2004e:65003**)
Barboteu, M. *see* **Alart, P. et al.**, (**2004e:65003**)
Ben Belgacem, Faker (*with* Fournié, Michel; Gmati, N.; Jelassi, F.) Sur le traitement des conditions aux limites à l'infini pour quelques problèmes extérieurs par la méthode de Schwarz alternée. (English and French summaries) [Handling boundary conditions at infinity for some exterior problems by the alternating Schwarz method] **2004a:65168**
Bergen, Benjamin Karl (*with* Hülsemann, Frank) Hierarchical hybrid grids: data structures and core algorithms for multigrid. (English summary)
Bertoluzza, Silvia Analysis of a stabilized three-fields domain decomposition method. (English summary) **2004e:65143**
Beuchler, Sven Multigrid solver for the inner problem in domain decomposition methods for P-FEM. (English summary) **2004g:65172**
Bochev, Pavel B. (*with* Hu, Jonathan J.; Robinson, Allen C.; Tuminaro, Raymond S.) Towards robust 3D Z-pinch simulations: discretization and fast solvers for magnetic diffusion in heterogeneous conductors. (English summary) **2004g:65173**
Boglaev, Igor (*with* Duoba, Vic) Domain decomposition for a singularly perturbed problem with parabolic layers. (English summary) (*see* **2004h:00019**)
— (*with* Duoba, Vic) Domain decomposition for an advection-diffusion problem with parabolic layers. (English summary) **2004h:65129**
Bourgault, Yves (*with* El Boukili, Abderrazzak) A mortar element method for hyperbolic problems. (English and French summaries)
Braess, Dietrich (*with* Dahmen, Wolfgang) The mortar element method revisited—what are the right norms? (*see* **2004e:65003**)
— (*with* Deuflhard, Peter; Lipnikov, Konstantin) A subspace cascadic multigrid method for mortar elements. (English summary) **2004a:65169**
Brenner, Susanne C. A new look at FETI. (*see* **2004e:65003**)
— (*with* Sung, Li-yeng) Multigrid methods for the computation of singular solutions and stress intensity factors. III. Interface singularities. (English summary) **2004k:65248**
— Analysis of two-dimensional FETI-DP preconditioners by the standard additive Schwarz framework. (English summary) **2004m:65216**
— (*with* He, Qingmi) Lower bounds for three-dimensional nonoverlapping domain decomposition algorithms. (English summary) **2004a:65170**
— An additive Schwarz preconditioner for the FETI method. (English summary) **2004a:65171**
Cai, Zhi Qiang (*with* Parashkevov, R. R.; Russell, Thomas F.; Wilson, John David; Ye, Xiu) Domain decomposition for a mixed finite element method in three dimensions. (English summary) **2004a:65172**
Chacón Rebollo, Tomás (*with* Chacón Vera, Eliseo) Analysis of a non-overlapping domain decomposition method for Stokes equations. (English summary) (*see* **2004h:00021**)
— (*with* Chacón Vera, Eliseo) Study of a non-overlapping domain decomposition method: Poisson and Stokes problems. (English summary) **2004j:65208**
Chacón Vera, Eliseo *see* **Chacón Rebollo, Tomás**, **2004j:65208** *and* (**2004h:00021**)
Chang, Britton (*with* Lee, Barry) A multigrid algorithm for solving the multi-group, anisotropic scattering Boltzmann equation using first-order system least-squares methodology. (English summary) **2004g:65174**
Chang, Qian Shun *see* **Huang, Zhao Hui**, **2004e:65145**
Chartier, Timothy P. *see* **Antonelli, Miranda J.**
Chen, Jinru *see* **Shi, Zhong Ci et al.**, (**2004e:65003**)
Chen, Wenbin (*with* Wang, Yan Qiu[1]) Cascadic multigrid methods for mortar Wilson finite element methods on planar linear elasticity. (English summary) **2004e:65144**
Chou, So-Hsiang (*with* Huang, Jian Guo) A domain decomposition algorithm for general covolume methods for elliptic problems. (English summary) **2004i:65138**
Codina, Ramon *see* **Houzeaux, Guillaume**, **2004g:65175**
Croft, T. Nicholas *see* **Marsden, R. H. et al.**, (**2004j:00013**)
Dahmen, Wolfgang *see* **Braess, Dietrich**, (**2004e:65003**)
Del Pino, Stéphane *see* **Pironneau, Olivier et al.**, (**2004e:65003**)
Deng, Qingping A nonoverlapping domain decomposition method for nonconforming finite element problems. (English summary) **2004f:65208**
Deng, Shaozhong (*with* Ito, Kazufumi; Li, Zhilin) Three-dimensional elliptic solvers for interface problems and applications. (English summary) **2004b:65200**
Deuflhard, Peter *see* **Braess, Dietrich et al.**, **2004a:65169**
Ding, Fang Yun *see* **Wang, Xi Ying et al.**
Ding, Rui *see* **Wang, Xi Ying et al.**
Dohrmann, Clark R. *see* **Mandel, Jan**, **2004k:65254**
Dörfler, Willy (*with* Iliev, Oleg; Stoyanov, Dimiter; Vasileva, Daniela P.) On a multigrid adaptive refinement solver for saturated non-Newtonian flow in porous media. (English summary) (*see* **2004j:65007**)
Dryja, Maksymilian (*with* Proskurowski, W.) On preconditioners for mortar discretization of elliptic problems. (English summary) **2004b:65201**
Duoba, Vic *see* **Boglaev, Igor**, **2004h:65129** *and* (**2004h:00019**)

El Boukili, Abderrazzak *see* **Bourgault, Yves**
Eroshin, A. E. Investigation of the convergence rate of the multigrid method on quasinested adaptive grids. (English summary) **2004k:65249**
Faille, Isabelle *see* **Saas, Laurent et al., 2004h:65131**
Fournié, Michel *see* **Ben Belgacem, Faker et al., 2004a:65168**
Gander, Martin J. Optimized Schwarz methods for Helmholtz problems. (*see* **2004e:65003**)
— (*with* Halpern, Laurence; Japhet, Caroline) Optimized Schwarz algorithms for coupling convection and convection-diffusion problems. (*see* **2004e:65003**)
Garbey, M. (*with* Tromeur-Dervout, D.) Aitken-Schwarz algorithm on Cartesian grid. (*see* **2004e:65003**)
— (*with* Tromeur-Dervout, D.) On some Aitken-like acceleration of the Schwarz method. (English summary) **2004a:65173**
— *see also* **Baranger, Jacques et al., (2004e:65003)**
Gervasio, P. (*with* Lions, Jacques-Louis; Quarteroni, Alfio) Domain decomposition and virtual control for fourth order problems. (*see* **2004e:65003**)
Gil, Yossi (*with* Gutterman, Zvika; Onn, Shmuel; Yavneh, Irad) Automated transformations for PDE systems with application to multigrid solvers. (English summary) **2004c:65159**
Giraud, L. (*with* Guevara Vasquez, F.; Tuminaro, Raymond S.) Grid transfer operators for highly variable coefficient problems in two-level non-overlapping domain decomposition methods. (English summary) **2004m:65217**
Glowinski, Roland (*with* He, Jiwen; Rappaz, Jacques; Wagner, Joël) A multi-domain method for solving numerically multi-scale elliptic problems. (English and French summaries)
Gmati, N. (*with* Zrelli, N.) A domain decomposition method for the Helmholtz equation in an unbounded waveguide. (English summary) (*see* **2004m:00011**)
— *see also* **Ben Belgacem, Faker et al., 2004a:65168**
Goldfeld, Paulo (*with* Pavarino, Luca F.; Widlund, Olof B.) Balancing Neumann-Neumann preconditioners for mixed approximations of heterogeneous problems in linear elasticity. (English summary) **2004k:65250**
Golse, François (*with* Jin, Shi; Levermore, C. David) A domain decomposition analysis for a two-scale linear transport problem. (English summary) **2004i:65139**
Guevara Vasquez, F. *see* **Giraud, L. et al., 2004m:65217**
Guo, Wuwen (*with* Hou, LiSheng) Generalizations and accelerations of Lions' nonoverlapping domain decomposition method for linear elliptic PDE. (English summary) **2004k:65251**
Gutterman, Zvika *see* **Gil, Yossi et al., 2004c:65159**
Halpern, Laurence *see* **Gander, Martin J. et al., (2004e:65003)**
He, Jiwen *see* **Glowinski, Roland et al.**
He, Qingmi *see* **Brenner, Susanne C., 2004a:65170**
Heuer, Norbert (*with* Stephan, Ernst P.) An overlapping domain decomposition preconditioner for high order BEM with anisotropic elements. (English summary) **2004d:65156**
Hou, LiSheng *see* **Guo, Wuwen, 2004k:65251**
Hou, Thomas Y. *see* **Aarnes, Jørg, 2004h:65128**
Houzeaux, Guillaume (*with* Codina, Ramon) An iteration-by-subdomain overlapping Dirichlet/Robin domain decomposition method for advection-diffusion problems. (English summary) **2004g:65175**
Hu, Jonathan J. *see* **Bochev, Pavel B. et al., 2004g:65173**
Hu, Qiya (*with* Liang, Guo Ping; Liu, Jin-zhao) A preconditioner for three-dimensional domain decomposition methods with Lagrange multipliers. (English summary) **2004i:65140**
Huang, Jian Guo *see* **Chou, So-Hsiang, 2004i:65138**
Huang, Zhao Hui (*with* Chang, Qian Shun) Gauss-Seidel-type multigrid methods. (English summary) **2004e:65145**
Hülsemann, Frank *see* **Bergen, Benjamin Karl**
Iliev, Oleg *see* **Dörfler, Willy et al., (2004j:65007)**
Ito, Kazufumi *see* **Deng, Shaozhong et al., 2004b:65200**
Japhet, Caroline *see* **Achdou, Yves et al., 2004f:65206; (2004k:65005)** *and* **Gander, Martin J. et al., (2004e:65003)**
Jelassi, F. *see* **Ben Belgacem, Faker et al., 2004a:65168**
Jin, Shi *see* **Golse, François et al., 2004i:65139**
Kim, HwanHo (*with* Xu, Jinchao; Zikatanov, Ludmil T.) A multigrid method based on graph matching for convection-diffusion equations. (English summary) **2004b:65202**
— (*with* Xu, Jinchao; Zikatanov, Ludmil T.) Uniformly convergent multigrid methods for convection-diffusion problems without any constraint on coarse grids. (English summary) **2004k:65252**
Korneev, V. G. Local Dirichlet problems on subdomains of decomposition in *HP* discretizations, and optimal algorithms for their solution. (English and Russian summaries) **2004c:65160**
Kuznetsov, Yuriĭ Alekseevich[1] Domain decomposition and fictitious domain methods with distributed Lagrange multipliers. (*see* **2004e:65003**)
Kwak, D. Y. (*with* Nepomnyashchikh, Sergeĭ V.; Pyo, H. C.) Domain decomposition for model heterogeneous anisotropic problem. (English summary) **2004b:65203**
Lai, Choi-Hong *see* **Marsden, R. H. et al., (2004j:00013)**
Lee, Barry *see* **Chang, Britton, 2004g:65174**
de Lemos, Marcelo J. S. *see* **Mesquita, Maximilian S.**
Le Tallec, Patrick *see* **Alart, P. et al., (2004e:65003)**
Levermore, C. David *see* **Golse, François et al., 2004i:65139**
Li, Chen Liang (*with* Zeng, Jin Ping) A multisplitting and additive Schwarz iteration scheme for solving nonlinear complementarity problems. (Chinese. English summary) **2004k:65253**
Li, Hong Wei[1] Additive Schwarz method for elliptic partial differential equations. (Chinese. English summary) **2004d:65157**
Li, Tian Ran D-N alternative algorithm with multisubdomains for solving elliptic problems. (Chinese. English and Chinese summaries) **2004c:65161**
Li, Zhilin *see* **Deng, Shaozhong et al., 2004b:65200**
Liang, Guo Ping *see* **Hu, Qiya et al., 2004i:65140**
Lions, Jacques-Louis *see* **Pironneau, Olivier et al., (2004e:65003)** *and* **Gervasio, P. et al., (2004e:65003)**
Lipnikov, Konstantin *see* **Braess, Dietrich et al., 2004a:65169**
Liu, Jin-zhao *see* **Hu, Qiya et al., 2004i:65140**
Lube, Gert *see* **Rapin, Gerd, (2004e:65003)**
Ma, Jing Tang *see* **Zeng, Jin Ping et al., (2004j:65009)**
Maday, Yvon *see* **Achdou, Yves et al., 2004f:65206** *and* **(2004k:65005)**
Mampassi, Benjamin (*with* Mbainguesse, Djibet) On the over residual scaling techniques for multigrid algorithms. (English summary) **2004b:65204**
Mandel, Jan (*with* Dohrmann, Clark R.) Convergence of a balancing domain decomposition by constraints and energy minimization. (English summary) **2004k:65254**
Marsden, R. H. (*with* Croft, T. Nicholas; Lai, Choi-Hong) Domain decomposition using a 2-level correction scheme. (English summary) (*see* **2004j:00013**)
Mbainguesse, Djibet *see* **Mampassi, Benjamin, 2004b:65204**
Mesquita, Maximilian S. (*with* de Lemos, Marcelo J. S.) Optimal multigrid solutions of two-dimensional convection-condition problems. (English summary)
Nataf, Frédéric Interface connections in domain decomposition methods. (English summary) **2004h:65130**
— *see also* **Achdou, Yves et al., 2004f:65206; (2004k:65005)** *and* **Saas, Laurent et al., 2004h:65131**
Nepomnyashchikh, Sergeĭ V. *see* **Kwak, D. Y. et al., 2004b:65203**
Onn, Shmuel *see* **Gil, Yossi et al., 2004c:65159**
Oosterlee, C. W. (*with* Wienands, R.) A genetic search for optimal multigrid components within a Fourier analysis setting. (English summary) **2004f:65209**
Oudin, Fabienne *see* **Baranger, Jacques et al., (2004e:65003)**
Parashkevov, R. R. *see* **Cai, Zhi Qiang et al., 2004a:65172**
Pavarino, Luca F. *see* **Goldfeld, Paulo et al., 2004k:65250**
Pencheva, Gergina (*with* Yotov, Ivan) Balancing domain decomposition for mortar mixed finite element methods. (English summary) **2004c:65162**
Pflaum, C. Problem dependent generalized prewavelets. (English summary) **2004a:65174**
Pironneau, Olivier (*with* Del Pino, Stéphane; Lions, Jacques-Louis) Decomposition algorithms for DDM. (*see* **2004e:65003**)
Proskurowski, W. *see* **Dryja, Maksymilian, 2004b:65201**
Pyo, H. C. *see* **Kwak, D. Y. et al., 2004b:65203**
Quarteroni, Alfio *see* **Gervasio, P. et al., (2004e:65003)**
Rapin, Gerd (*with* Lube, Gert) Comparison of two iterative substructuring methods for advection-diffusion problems. (*see* **2004e:65003**)
Rappaz, Jacques *see* **Glowinski, Roland et al.**
Robinson, Allen C. *see* **Bochev, Pavel B. et al., 2004g:65173**
Russell, Thomas F. *see* **Cai, Zhi Qiang et al., 2004a:65172**
Saas, Laurent (*with* Faille, Isabelle; Nataf, Frédéric; Willien, Françoise) Domain decomposition with Robin interface conditions on non-matching grids using finite volume method. (English summary) **2004h:65131**
— (*with* Faille, Isabelle; Nataf, Frédéric; Willien, Françoise) Domain decomposition for a finite volume method on non-matching grids. (English and French summaries)
Sarkis, Marcus V. Domain decomposition methods: Schwarz methods. (English summary) **2004b:65205**
Shan, Gui Hua *see* **Zhou, Shu Zi et al., 2004f:65210; 2004f:65211** *and* **2004h:65133**
Shi, Zhong Ci (*with* Xu, Xue Jun; Chen, Jinru) Multigrid for the mortar-type nonconforming element method for nonsymmetric and indefinite problems. (*see* **2004e:65003**)
— (*with* Xu, Xue Jun) A V-cycle multigrid for quadrilateral rotated Q_1 element with numerical integration. (English summary) **2004h:65132**
Singh, K. M. (*with* Williams, J. J. R.) Application of the additive Schwarz method to large scale Poisson problems. (English summary)
Stephan, Ernst P. *see* **Heuer, Norbert, 2004d:65156**
Stoyanov, Dimiter *see* **Dörfler, Willy et al., (2004j:65007)**
Sung, Li-yeng *see* **Brenner, Susanne C., 2004k:65248**
Tahiri, Ahmed The PCD method. (English summary) (*see* **2004j:65007**)
Tromeur-Dervout, D. *see* **Garbey, M., 2004a:65173** *and* **(2004e:65003)**
Tuminaro, Raymond S. *see* **Bochev, Pavel B. et al., 2004g:65173** *and* **Giraud, L. et al., 2004m:65217**
Vani, C. *see* **Avudainayagam, A., 2004j:65207**
Vasileva, Daniela P. *see* **Dörfler, Willy et al., (2004j:65007)**
Vidrascu, Marina *see* **Alart, P. et al., (2004e:65003)**
Wagner, Joël *see* **Glowinski, Roland et al.**
Wang, Xi Ying (*with* Ding, Rui; Ding, Fang Yun) Iterative decomposition methods for a kind of boundary mixed variational inequality and its convergence analysis. (Chinese. English and Chinese summaries)
Wang, Yan Qiu[1] *see* **Chen, Wenbin, 2004e:65144**
Widlund, Olof B. *see* **Goldfeld, Paulo et al., 2004k:65250**
Wienands, R. *see* **Oosterlee, C. W., 2004f:65209**
Wieners, Christian (*with* Wohlmuth, Barbara I.) Duality estimates and multigrid analysis for saddle point problems arising from mortar discretizations. (English summary) **2004g:65176**
Williams, J. J. R. *see* **Singh, K. M.**
Willien, Françoise *see* **Saas, Laurent et al., 2004h:65131**
Wilson, John David *see* **Cai, Zhi Qiang et al., 2004a:65172**
Wohlmuth, Barbara I. *see* **Wieners, Christian, 2004g:65176**
Xu, Jinchao (*with* Zhou, Aihui) Some multiscale methods for partial differential equations. (English summary) **2004a:65175**
— *see also* **Kim, HwanHo et al., 2004b:65202** *and* **2004k:65252**
Xu, Xue Jun *see* **Shi, Zhong Ci et al., 2004h:65132** *and* **(2004e:65003)**
Yavneh, Irad Editorial: Special issue on multigrid methods.
— *see also* **Gil, Yossi et al., 2004c:65159**
Ye, Xiu *see* **Cai, Zhi Qiang et al., 2004a:65172**
Yoo, Jaechil Multigrid for the Galerkin least squares method in linear elasticity. (English summary) **2004k:65255**
Yotov, Ivan *see* **Pencheva, Gergina, 2004c:65162**
Zeng, Jin Ping (*with* Zhou, Shu Zi; Ma, Jing Tang) A Cascadic multigrid method for solving obstacle problems. (English summary) (*see* **2004j:65009**)
— *see also* **Zhou, Shu Zi et al., 2004f:65210; 2004f:65211; 2004h:65133** *and* **Li, Chen Liang, 2004k:65253**

Zenger, Christoph *see* **Bader, Michael, 2004g:65171**
Zhou, Aihui *see* **Xu, Jinchao, 2004a:65175**
Zhou, Shu Zi (*with* Zeng, Jin Ping; Shan, Gui Hua) On the convergence rate of a space decomposition method. (English summary) **2004h:65133**
— (*with* Zeng, Jin Ping; Shan, Gui Hua) Solving minimal surface problems by using a domain decomposition method. (Chinese. English summary) **2004f:65210**
— (*with* Zeng, Jin Ping; Shan, Gui Hua) A Schwarz algorithm for solving a kind of nonlinear elliptic problem. (Chinese. English and Chinese summaries) **2004f:65211**
— *see also* **Zeng, Jin Ping et al., (2004j:65009)**
Zikatanov, Ludmil T. *see* **Kim, HwanHo et al., 2004b:65202** *and* **2004k:65252**
Zrelli, N. *see* **Gmati, N., (2004m:00011)**

Items with secondary classifications in 65N55

Achchab, Boujemaa (*with* Achchab, Said; Axelsson, Owe; Souissi, A.) Upper bound of the constant in strengthened C.B.S. inequality for systems of linear partial differential equations. (English summary) **2004d:65136**
Achchab, Said *see* **Achchab, Boujemaa et al., 2004d:65136**
Agouzal, Abdellatif (*with* Debit, N.) Discontinuous hybrid formulation turned to domain decomposition. (*see* **2004e:65003**)
Albuquerque, C. (*with* Cottet, Georges-Henri) Coupling finite difference methods and integral formulas for elliptic problems arising in fluid mechanics. (English summary) **2004m:65169**
Al Moatassime, H. (*with* Raghay, S.; Hakim, Abdelilah) A finite volume discretization and multigrid solver for steady viscoelastic fluid flows. (English summary) (*see* **2004k:65005**)
Amirat, Youcef (*with* Bodart, Olivier) Numerical approximation of laminar flows over rough walls with sharp asperities. (English summary) **2004m:76118**
Aruliah, D. A. (*with* Ascher, Uri M.) Multigrid preconditioning for Krylov methods for time-harmonic Maxwell's equations in three dimensions. (English summary) **2004a:65142**
Ascher, Uri M. *see* **Aruliah, D. A., 2004a:65142**
Assous, Franck (*with* Ciarlet, Patrick, Jr.; Labrunie, Simon; Lohrengel, Stephanie) The singular complement method. (*see* **2004e:65003**)
Averbuch, Amir Z. *see* **Israeli, Moshe et al., (2004e:65003)**
Axelsson, Owe *see* **Achchab, Boujemaa et al., 2004d:65136**
Azaïez, Mejdi (*with* Ben Belgacem, Faker; Bernardi, Christine) Mortar spectral element discretization of Darcy's equations. (*see* **2004e:65003**)
Bartsch, Guido (*with* Wulf, Christian) Adaptive multigrid for Helmholtz problems. (English summary)
Becker, Roland (*with* Hansbo, Peter; Stenberg, Rolf) A finite element method for domain decomposition with non-matching grids. (English summary) **2004e:65129**
Belhachmi, Zakaria A posteriori error estimates for the 3D stabilized mortar finite element method applied to the Laplace equation. (English summary) **2004j:65167**
Ben Belgacem, Faker *see* **Azaïez, Mejdi et al., (2004e:65003)**
Bendali, Abderrahmane *see* **Boubendir, Y., (2004e:65003)**
Bernardi, Christine (*with* Hecht, Frédéric) Error indicators for the mortar finite element discretization of the Laplace equation. (English summary) **2004b:65175**
— *see also* **Azaïez, Mejdi et al., (2004e:65003)**
Bertoluzza, Silvia Substructuring techniques and wavelets for domain decomposition. (*see* **2004e:65003**)
Bialecki, Bernard (*with* Dryja, Maksymilian) A nonoverlapping domain decomposition method for orthogonal spline collocation problems. (English summary) **2004k:65232**
Bjørstad, P. E. (*with* Dryja, Maksymilian; Rahman, T.) Efficient Schwarz methods for elliptic mortar finite element problems. (*see* **2004e:65003**)
Bodart, Olivier *see* **Amirat, Youcef, 2004m:76118**
Boglaev, Igor On monotone iterative methods for a nonlinear singularly perturbed reaction-diffusion problem. (English summary) **2004m:65170**
Borzi, Alfio (*with* Kunisch, Karl; Kwak, D. Y.) Accuracy and convergence properties of the finite difference multigrid solution of an optimal control optimality system. (English summary) **2004b:49069**
Boubendir, Y. (*with* Bendali, Abderrahmane) Domain decomposition methods for solving scattering problems by a boundary element method. (*see* **2004e:65003**)
Bounaïm, A. On the use of iterative Schwarz algorithms in the solution of an optimal control problem. (*see* **2004e:65003**)
Brandt, Achi (*with* Ron, Dorit) Multigrid solvers and multilevel optimization strategies. (*see* **2004f:90010**)
Braverman, Elena *see* **Israeli, Moshe et al., (2004e:65003)**
Cai, Xiao-Chuan (*with* Dryja, Maksymilian; Sarkis, Marcus V.) RASHO: a restricted additive Schwarz preconditioner with harmonic overlap. (*see* **2004e:65003**)
— (*with* Keyes, David E.; Young, David P.) A nonlinear additive Schwarz preconditioned inexact Newton method for shocked duct flows. (*see* **2004e:65003**)
Carlson, Eric S. *see* **Sun, Hai-Wei et al.**
Cautrès, René (*with* Gallouët, Thierry; Gerbi, Stéphane; Herbin, Raphaèle) A Neumann-Neumann method using a finite volume discretization. (*see* **2004e:65003**)
— (*with* Herbin, Raphaèle; Hubert, Florence) Nonmatching finite volume grids and the nonoverlapping Schwarz algorithm. (*see* **2004e:65003**)
— (*with* Herbin, Raphaèle; Hubert, Florence) Finite volume scheme on non matching grids. Applications to domain decomposition methods. (English summary) (*see* **2004e:65004**)
Cessenat, Olivier (*with* Després, Bruno) Using plane waves as base functions for solving time harmonic equations with the ultra weak variational formulation. (English summary) **2004j:65182**
Chang, Shing-Lin (*with* Chien, C.-S.) Domain decomposition algorithms for fourth-order nonlinear elliptic eigenvalue problems. (English summary) **2004i:65118**
Chen, Jinru (*with* Xu, Xue Jun) The mortar element method for the rotated $Q1$ element. (*see* **2004e:65003**)
Chien, C.-S. *see* **Chang, Shing-Lin, 2004i:65118**
Chilton, Lawrence K. (*with* Seshaiyer, Padmanabhan) The *hp* mortar domain decomposition method for problems in fluid mechanics. (English summary) **2004a:76085**
Chou, Mo-Hong A multigrid pseudospectral method for steady flow computation. (English summary) **2004f:76085**
Chow, Edmond Ten-Fu An unstructured multigrid method based on geometric smoothness. (English summary) **2004i:65029**
Ciarlet, Patrick, Jr. *see* **Assous, Franck et al., (2004e:65003)**
Cottet, Georges-Henri *see* **Albuquerque, C., 2004m:65169**
Debit, N. *see* **Domain decomposition methods in science and engineering, 2004e:65003** *and* **Agouzal, Abdellatif, (2004e:65003)**
Després, Bruno *see* **Cessenat, Olivier, 2004j:65182**
Dostál, Zdeněk (*with* Horák, David; Szweda, Jan; Vondrák, Vít) Scalabilities of FETI for variational inequalities and contact shape optimization. (*see* **2004e:65003**)
— (*with* Friedlander, Ana; Gomes Neto, Francisco A. M.; Santos, S. A.) Preconditioning by projectors in the solution of contact problems: a parallel implementation. (English summary) **2004a:74050**
Douglas, Craig C. *see* **Karaa, Samir et al., 2004g:65144**
Dryja, Maksymilian *see* **Bialecki, Bernard, 2004k:65232; Bjørstad, P. E. et al., (2004e:65003)** *and* **Cai, Xiao-Chuan et al., (2004e:65003)**
Dudash, O. Ī. *see* **Savula, Ya. G. et al.**
Dyyak, Ivan I. *see* **Savula, Ya. G. et al.**
Feng, Xiaobing (*with* Karakashian, Ohannes A.) Analysis of two-level overlapping additive Schwarz preconditioners for a discontinuous Galerkin method. (*see* **2004e:65003**)
Fresl, Krešimir Some numerical models of fabric structures. (English summary) (*see* **2004c:00014**)
Friedlander, Ana *see* **Dostál, Zdeněk et al., 2004a:74050**
Frommer, Andreas (*with* Nabben, Reinhard; Szyld, Daniel B.) An algebraic convergence theory for restricted additive and multiplicative Schwarz methods. (*see* **2004e:65003**)
Fulton, Scott R. On the accuracy of multigrid truncation error estimates. (English summary) **2004f:65166**
Gallouët, Thierry *see* **Cautrès, René et al., (2004e:65003)**
(Garbey, M.) *see* **Domain decomposition methods in science and engineering, 2004e:65003**
Gerbi, Stéphane *see* **Cautrès, René et al., (2004e:65003)**
Gomes Neto, Francisco A. M. *see* **Dostál, Zdeněk et al., 2004a:74050**
Gopalakrishnan, Jayadeep A Schwarz preconditioner for a hybridized mixed method. (English summary) **2004g:65033**
— (*with* Kanschat, Guido) A multilevel discontinuous Galerkin method. (English summary) **2004m:65179**
— *see also* **Errata: "A multilevel discontinuous Galerkin method", 2004m:65180**
Gravvanis, G. A. Explicit preconditioned domain decomposition schemes for solving nonlinear boundary value problems. (English summary) **2004f:65036**
Greguš, Michal, Jr. *see* **Hayryan, Edik A. et al., (2004h:00020)**
Griebel, Michael (*with* Schweitzer, Marc Alexander) A particle-partition of unity method. III. A multilevel solver. (English summary) **2004e:65125**
Guillaume, Philippe (*with* Huard, A.; Le Calvez, C.) A block constant approximate inverse for preconditioning large linear systems. (English summary) **2004g:65034**
Haase, Gundolf (*with* Langer, Ulrich[1]) Multigrid methods: from geometrical to algebraic versions. (English summary) **2004k:65205**
— (*with* Kuhn, Michael; Reitzinger, Stefan) Parallel algebraic multigrid methods on distributed memory computers. (English summary) **2004b:65220**
Hakim, Abdelilah *see* **Al Moatassime, H. et al., (2004k:65005)**
Hansbo, Peter *see* **Becker, Roland et al., 2004e:65129**
Hawley, Scott H. (*with* Matzner, Richard A.) Tips for implementing multigrid methods on domains containing holes. **2004m:83006**
Hayryan, Edik A. (*with* Greguš, Michal, Jr.; Hayryan, Shura A.; Pokorný, Imrich) Parallel realization of the numerical solution of the Poisson-Boltzmann equation. (English summary) (*see* **2004h:00020**)
Hayryan, Shura A. *see* **Hayryan, Edik A. et al., (2004h:00020)**
Hecht, Frédéric *see* **Bernardi, Christine, 2004b:65175**
Heimsund, Bjørn-Ove *see* **Tai, Xue Cheng et al., (2004e:65003)**
Heinrich, B. (*with* Nicaise, Serge) The Nitsche mortar finite-element method for transmission problems with singularities. (English summary) **2004c:65142**
Heinstein, M. W. *see* **Laursen, Tod A., 2004e:74078**
Henn, Stefan (*with* Witsch, Kristian) Multimodal image registration using a variational approach. (English summary) **2004k:92021**
Herbin, Raphaèle *see* **Cautrès, René et al., (2004e:65003); (2004e:65003)** *and* **(2004e:65004)**
Heuveline, Vincent On the computation of a very large number of eigenvalues for selfadjoint elliptic operators by means of multigrid methods. (English summary) **2004a:65146**
Hiptmair, Ralf Analysis of multilevel methods for eddy current problems. (English summary) **2004c:78033**
Holmgren, Sverker *see* **Larsson, Elisabeth, 2004i:65152**
Hoppe, Ronald H. W. (*with* Petrova, Svetozara I.; Schulz, Volker) 3D structural optimization in electromagnetics. (*see* **2004e:65003**)
— *see also* **Domain decomposition methods in science and engineering, 2004e:65003**
Horák, David *see* **Dostál, Zdeněk et al., (2004e:65003)**
Hu, Qiya A new kind of preconditioner for interface equations of mortar multipliers on subspaces. (English summary) (*see* **2004j:65009**)
Huang, Jian Guo (*with* Wu, Ju) Convergence estimates to the S-COR algorithm for solving three-dimensional elliptic equations. (Chinese. English and Chinese summaries) **2004a:65038**
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Huang, Yun Qing (*with* Shi, Zhong Ci; Tang, Tao; Xue, Wei Min[1]) A multilevel successive iteration method for nonlinear elliptic problems. (English summary) **2004k:65206**
Huard, A. *see* **Guillaume, Philippe et al., 2004g:65034**
Hubert, Florence *see* **Cautrès, René et al., (2004e:65003)** *and* **(2004e:65004)**
Israeli, Moshe (*with* Braverman, Elena; Averbuch, Amir Z.) A hierarchical domain decomposition method with low communication overhead. (*see* **2004e:65003**)
Jimack, Peter K. (*with* Nadeem, Sarfraz A.) A parallel domain decomposition algorithm for the adaptive finite element solution of 3-D convection-diffusion problems. (English summary) (*see* **2004j:00013**)
Kaltenbacher, Barbara V-cycle convergence of some multigrid methods for ill-posed problems. (English summary) **2004d:65069**
Kang, Ning *see* **Sun, Hai-Wei et al.**

Kanschat, Guido *see* **Gopalakrishnan, Jayadeep**, **2004m:65179**; **2004m:65180** *and* **Errata: "A multilevel discontinuous Galerkin method"**, **2004m:65180**
Karaa, Samir (*with* Zhang, Jun[2]; Douglas, Craig C.) Preconditioned multigrid simulation of an axisymmetric laminar diffusion flame. (English summary) **2004g:65144**
Karakashian, Ohannes A. *see* **Feng, Xiaobing**, (**2004e:65003**)
Keyes, David E. *see* **Domain decomposition methods in science and engineering**, **2004e:65003** *and* **Cai, Xiao-Chuan et al.**, (**2004e:65003**)
Kidder, Lawrence E. *see* **Pfeiffer, Harald P. et al.**, **2004c:65154**
Klawonn, Axel (*with* Widlund, Olof B.) FETI-DP methods for elliptic problems with discontinuous coefficients in three dimensions. (*see* **2004e:65003**)
Knyazev, Andreĭ Vladimirovich (*with* Neymeyr, Klaus) Efficient solution of symmetric eigenvalue problems using multigrid preconditioners in the locally optimal block conjugate gradient method. (English summary) **2004g:65150**
Koko, Jonas An optimization-based domain decomposition method for a two-body contact problem. (English summary) **2004g:74053**
Krause, Rolf H. *see* **Wohlmuth, Barbara I.**, **2004k:74042**
Kräutle, S. (*with* Wielage, K.) The CGBI method for viscous channel flows and its preconditioning. (English summary) **2004c:76043**
Kuhn, Michael *see* **Haase, Gundolf et al.**, **2004b:65220**
Kunisch, Karl *see* **Borzì, Alfio et al.**, **2004b:49069**
(Kuznetsov, Yuriĭ Alekseevich[1]) *see* **Domain decomposition methods in science and engineering**, **2004e:65003**
Kwak, D. Y. *see* **Borzì, Alfio et al.**, **2004b:49069**
Labrunie, Simon *see* **Assous, Franck et al.**, (**2004e:65003**)
Lamichhane, B. P. (*with* Wohlmuth, Barbara I.) Higher order dual Lagrange multiplier spaces for mortar finite element discretizations. (English summary) **2004b:65186**
Langer, Ulrich[1] (*with* Pusch, D.; Reitzinger, Stefan) Efficient preconditioners for boundary element matrices based on grey-box algebraic multigrid methods. (English summary) **2004j:65199**
— *see also* **Haase, Gundolf**, **2004k:65205**
Larin, Maxim On a multigrid eigensolver for linear elasticity problems. (English summary) (*see* **2004j:65007**)
Larsson, Elisabeth (*with* Holmgren, Sverker) Parallel solution of the Helmholtz equation in a multilayer domain. (English summary) **2004i:65152**
Lasser, C. (*with* Toselli, Andrea) Overlapping preconditioners for discontinuous Galerkin approximations of second order problems. (*see* **2004e:65003**)
Laursen, Tod A. (*with* Heinstein, M. W.) Consistent mesh tying methods for topologically distinct discretized surfaces in non-linear solid mechanics. (English summary) **2004e:74078**
Le Calvez, C. *see* **Guillaume, Philippe et al.**, **2004g:65034**
Lee, Barry (*with* McCormick, Stephen F.; Philip, Bobby; Quinlan, Daniel J.) Asynchronous fast adaptive composite-grid methods for elliptic problems: theoretical foundations. (English summary) **2004m:65214**
Lemarchand, Géraldine (*with* Pironneau, Olivier; Polak, Elijah) A mesh refinement method for optimization with DDM. (*see* **2004e:65003**)
Li, Likang *see* **Liu, Qing[5] et al.**, **2004e:74079**
Li, Zhongze (*with* Saad, Youcef; Sosonkina, Masha) pARMS: a parallel version of the algebraic recursive multilevel solver. (English summary) **2004h:65032**
Liu, Qing[5] (*with* Li, Likang; Huang, Jian Guo) On mortar-type TRUNC element method for a plate bending problem. (English summary) **2004e:74079**
Llorente, Ignacio M. *see* **Prieto-Matías, Manuel et al.**
Lohrengel, Stephanie *see* **Assous, Franck et al.**, (**2004e:65003**)
Lui, S. H. *see* **Xu, Xue Jun**, **2004h:65125**
Lüscher, Martin Solution of the Dirac equation in lattice QCD using a domain decomposition method. (English summary)
Mäkinen, R. A. E. *see* **Martikainen, Janne et al.**, (**2004e:65003**)
Martikainen, Janne (*with* Mäkinen, R. A. E.; Rossi, Tuomo; Toivanen, Jari) A preconditioner for linear elasticity problems. (*see* **2004e:65003**)
— Numerical study of two sparse AMG-methods. (English summary) **2004c:65032**
Matzner, Richard A. *see* **Hawley, Scott H.**, **2004m:83006**
McCormick, Stephen F. *see* **Lee, Barry et al.**, **2004m:65214**
Montero, Ruben S. *see* **Prieto-Matías, Manuel et al.**
Nabben, Reinhard (*with* Szyld, Daniel B.) Convergence theory of restricted multiplicative Schwarz methods. (English summary) **2004a:65041**
— Comparisons between multiplicative and additive Schwarz iterations in domain decomposition methods. (English summary) **2004e:65037**
— *see also* **Frommer, Andreas et al.**, (**2004e:65003**)
Nadeem, Sarfraz A. *see* **Jimack, Peter K.**, (**2004j:00013**)
Neymeyr, Klaus *see* **Knyazev, Andreĭ Vladimirovich**, **2004g:65150**
Nicaise, Serge *see* **Heinrich, B.**, **2004c:65142**
Oswald, Peter (*with* Wohlmuth, Barbara I.) On polynomial reproduction of dual FE bases. (*see* **2004e:65003**)
Patera, Anthony T. (*with* Peraire, Jaime) A general Lagrangian formulation for the computation of a posteriori finite element bounds. (English summary) **2004b:65167**
Pavarino, Luca F. (*with* Widlund, Olof B.) Building preconditioners for incompressible Stokes equations from saddle point solvers of smaller dimensions. (*see* **2004e:65003**)
Peraire, Jaime *see* **Patera, Anthony T.**, **2004b:65167**
(Périaux, Jacques F.) *see* **Domain decomposition methods in science and engineering**, **2004e:65003**
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Vasseur, Xavier *see* **Toselli, Andrea**, **2004m:65182**
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Items with secondary classifications in 65R10

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Gnaneshwar, N. *see* **Kulkarni, Rekha P., 2004h:65146**

Gong, Ya Fang *see* **Han, Hui Li, 2004h:65144**

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Herdman, Terry *see* **Cao, Yanzhao et al.**, **2004a:65179**
Hiptmair, Ralf Coercive combined field integral equations. (English summary) **2004f:65215**
Horvat, Vilmoš On polynomial spline collocation methods for neutral Volterra integro-differential equations with delay arguments. (English summary) (*see* **2004c:00014**)
Ismail, A. S. *see* **Abdou, Mohamed A. et al.**, **2004c:65168** *and* **2004g:65183**
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Khalilov, È. G. Constructive solution of integral equation for external problem of Neumann by collocation method. (English and Azerbaijani summaries) **2004d:65162**
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Kostishin, Lyubov P. (*with* Shuvar, Bogdan A.; Zīn′ko, Petro M.) An aggregate-iterative method for the approximate solution of integral equations. (Ukrainian. English and Ukrainian summaries)
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Kulkarni, Rekha P. (*with* Gnaneshwar, N.) Iterated discrete polynomially based Galerkin methods. (English summary) **2004h:65146**
Kwon, Kiwoon (*with* Sheen, Dongwoo) A parallel method for the numerical solution of integro-differential equation with positive memory. (English summary) **2004k:65263**
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Laurita, C. (*with* Mastroianni, Giuseppe) Condition numbers in numerical methods for Fredholm integral equations of the second kind. (English summary) **2004c:65171**
— *see also* **Frammartino, C. et al.**, **2004g:65184**
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Lifanov, I. K. *see* **Vaĭnikko, G. M. et al.**, **2004k:65269**
Lima, Pedro M. *see* **Diogo, T. et al.**, **2004e:65151**
Lin, Fu Rong Preconditioned iterative methods for the numerical solution of Fredholm equations of the second kind. (English summary) **2004k:65264**
Liu, Tang *see* **Jin, Da Yong et al.**
Mahmoudi, Y. *see* **Maleknejad, K.**, **2004d:65163**; **2004i:65147** *and* **2004m:65227**
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Mascagni, Michael (*with* Simonov, Nikolai A.) The random walk on the boundary method for calculating capacitance. (English summary) **2004m:65228**
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— *see also* **Laurita, C.**, **2004c:65171** *and* **Frammartino, C. et al.**, **2004g:65184**
Mastronardi, Nicola *see* **Capobianco, M. R.**, **2004i:65144**
Maz′ya, Vladimir G. *see* **Karlin, V. et al.**, **2004f:65216**
Mikhaĭlov, S. E. About localized boundary-domain integro-differential formulations for a quasilinear problem with variable coefficients. (*see* **2004j:35006**)
Mirzaee, F. *see* **Maleknejad, K.**
Mohamed, Khamis I. *see* **Abdou, Mohamed A. et al.**, **2004c:65168** *and* **2004g:65183**
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— (*with* Scuderi, L.) A polynomial collocation method for the numerical solution of weakly singular and nonsingular integral equations on non-smooth boundaries. (English summary) **2004j:65225**
Nasr, A. A. *see* **Abdou, Mohamed A.**, **2004h:65142**
Neta, Beny *see* **Gordis, Joshua H.**, (**2004i:00008**)
Ngarhasta, N. (*with* Somé, Blaise) Solving integral equations of first kind by Adomian method. (English summary) **2004f:65217**
Noren, Richard D. *see* **Kaneko, Hideaki et al.**, **2004b:65212**
Novaprateep, Boriboon *see* **Kaneko, Hideaki et al.**, **2004b:65212**
Oja, Peeter (*with* Tarang, Mare) Stability of the spline collocation method for Volterra integro-differential equations. (English summary) **2004a:65180**
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Oseledets, I. V. *see* **Ford, Judith M. et al.**
Palencia de Lara, C. *see* **Cuesta, E.**, **2004b:65210** *and* **2004m:65225**
Pandolfi, Luciano *see* **Fagnani, Fabio**, **2004m:65226**
Parts, Inga (*with* Pedas, Arvet) Collocation approximations for weakly singular Volterra integro-differential equations. (English and Lithuanian summaries) **2004k:65266**
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Rajan, M. P. Convergence analysis of a regularized approximation for solving Fredholm integral equations of the first kind. (English summary) **2004d:65164**
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Ramm, Alexander G. (*with* Galstyan, A. A.) On deconvolution methods. (English summary) **2004a:65182**
Rapún, María-Luisa *see* **Celorrio, Ricardo et al.**, **2004j:65221**
Rashed, M. T. Numerical solution of a special type of integro-differential equations. (English summary) **2004c:65174**
— Numerical solutions of the integral equations of the first kind. (English summary) **2004g:65185**
Rasol′ko, G. A. *see* **Smarzewski, R. et al.**, **2004g:65186**
Rathsfeld, Andreas *see* **Mastroianni, Giuseppe et al.**, **2004k:65265**
Rjasanow, Sergej *see* **Bebendorf, Mario**, **2004a:65177**
Rokhlin, Vladimir V. *see* **Jiang, Shidong**, **2004j:65224**
Russo, E. *see* **Brunner, Hermann et al.**, **2004j:65219**
Sánchez-Ávila, C. (*with* Sánchez-Reillo, R.) A wavelet-based method for solving discrete first-kind Fredholm equations with piecewise constant solutions. (English summary) **2004d:65165**
Sánchez-Reillo, R. *see* **Sánchez-Ávila, C.**, **2004d:65165**
Saranen, J. *see* **Costabel, Martin**, **2004b:65209**
Saveljeva, Darja *see* **Oja, Peeter**, **2004a:65181**
Sayas, Francisco-Javier *see* **Domínguez, Víctor**, **2004i:65145**; **Celorrio, Ricardo et al.**, **2004j:65221** *and* (**2004h:00021**)
Schmidt, Gunther *see* **Karlin, V. et al.**, **2004f:65216**
Scuderi, L. *see* **Monegato, Giovanni**, **2004c:65173** *and* **2004j:65225**
Seĭchuk, V. N. Convergence of collocation and quadratures methods for solving systems of nonlinear singular integral equations given on closed smooth contour. (English summary) **2004f:65218**
Seiciuc, Vladislav Approximate solution of linear singular integral equations with Carleman shifting argument. (Romanian. English summary) (*see* **2004g:00020**)
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Sharipov, M. A. *see* **Zakharov, E. V. et al.**, **2004m:65229**
Sheen, Dongwoo *see* **Kwon, Kiwoon**, **2004k:65263**
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De Rossi, Alessandra *see* **Besenghi, R. et al.**, **2004g:65011**
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Huang, P. G. *see* **Hauser, Th. et al.**, **2004m:76122**
Huddleston, D. *see* **Rivera-Gallego, Wilson et al.**
Husbands, Parry *see* **Oliker, Leonid et al.**, **2004a:65055**
Idarraga, John *see* **Higuera G., Mario A. et al.**, **2004h:65152**
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Kalia, Rajiv K. *see* **Nakano, Aiichiro et al.**
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Kim, Donglok *see* **Mermer, Coskun et al.**, **2004d:65167**
Kim, Yongmin *see* **Mermer, Coskun et al.**, **2004d:65167**
Kodiyalam, Sanjay *see* **Nakano, Aiichiro et al.**
Kontoghiorghes, Erricos John *see* **Gatu, Cristian**, **2004d:90052** *and* **Gutknecht, Martin H. et al.**
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Lapin, A. V. *see* **Laitinen, Erkki J. et al.**, **2004f:65120**
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Lazăr, Ioan On the convergence of asynchronous block Newton methods for nonlinear systems of equations. (English summary) **2004m:65066**
Lebeau, R. P. *see* **Hauser, Th. et al.**, **2004m:76122**
Leedham, Graham *see* **Sim, Leo Chin et al.**
(Lenstra, Jan Karel) *see* **Local search in combinatorial optimization**
L'Excellent, Jean-Yves *see* **Guermouche, Abdou et al.**
Li, Baoyan *see* **Liu, Jiang-Guo et al.**, (2004h:65005)
Li, Shou Fu Efficient parallel multivalue hybrid methods for stiff differential equations. (English summary) **2004a:65078**
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Polymenopoulos, Alex *see* **Bardis, N. G. et al.**
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Purcz, Pavol New parallel algorithm and its speed-up for the explicit difference method. (English summary) **2004e:65099**
Ranilla, José *see* **Alonso, P. et al.**, **2004k:65045**
Raydan, Marcos *see* **Molina, Brígida et al.**, **2004e:65036**
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Ryabichev, Vyacheslav L. *see* **Gavrilyuk, Ī. P. et al.**, **2004g:65079**
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Schell, Thomas *see* **Entacher, Karl et al.**
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Starikovičius, Vadimas *see* **Čiegis, Raimondas**
Stpiczyński, Przemysław Efficient data-parallel algorithms for computing trigonometric sums. (English summary) **2004e:65008**
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Twizell, E. H. *see* **Cheema, T. A. et al.**, **2004k:65129**
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Vömel, Christof *see* **Amestoy, Patrick R. et al.**
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65Y10 Algorithms for specific classes of architectures

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Barrio, Roberto (*with* Yalamov, Plamen Y.) Stability of parallel algorithms for polynomial evaluation. (English summary) **2004i:65151**
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Cools, Ronald Extrapolation and adaptivity in software for automatic numerical integration on a cube. (English summary)
— *see also* **Genz, Alan, 2004g:65021**
Cucker, Felipe Three lectures on real computation. (English summary) (*see* **2004d:68050**)
Demmel, James W. The complexity of accurate floating point computation. (English summary) **2004b:65060**
Díaz, Josep The AKS primality algorithm. (Spanish) **2004g:68056**
Eiermann, Michael (*with* Ernst, Oliver G.) Geometric aspects of the theory of Krylov subspace methods. (English summary) **2004j:65042**
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Walster, G. William (*with* Kreinovich, Vladik) Computational complexity of optimization and crude range testing: a new approach motivated by fuzzy optimization. (English summary) **2004d:90144**
Wang, Rong[1] (*with* Keast, Patrick; Muir, P. H.) A comparison of adaptive software for 1D parabolic PDEs. (English summary)
Wang, Xiaoqun[1] *see* **Sloan, Ian H. et al., 2004j:65034**
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65Y99 None of the above, but in this section

Bader, Michael (*with* Bungartz, Hans-Joachim; Frank, Anton; Mundani, Ralf) Space tree structures for PDE software. (English summary) (*see* **2004j:00014**)
Blest, David C. (*with* Jamil, Tariq) Division in a binary representation for complex numbers. (English summary) **2004g:65192**
Bungartz, Hans-Joachim *see* **Bader, Michael et al.,** (**2004j:00014**)
Della Dora, Jean (*with* Maignan, Aude; Mirica-Ruse, Mihaela; Yovine, Sergio) Hybrid computation. (English summary) (*see* **2004j:68016**)
Frank, Anton *see* **Bader, Michael et al.,** (**2004j:00014**)
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Kettunen, Lauri *see* **Suuriniemi, Saku, 2004h:65155**
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Mirica-Ruse, Mihaela *see* **Della Dora, Jean et al.,** (**2004j:68016**)
Mundani, Ralf *see* **Bader, Michael et al.,** (**2004j:00014**)
Suuriniemi, Saku (*with* Kettunen, Lauri) Trade-off between information and computability: a technique for automated topological computations. (English summary) **2004h:65155**

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Åhlander, Krister (*with* Otto, Kurt) On software support for finite difference schemes based on index notation. (English summary) (*see* **2004j:00014**)

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Nievergelt, Yves Scalar fused multiply-add instructions produce floating-point matrix arithmetic provably accurate to the penultimate digit. (English summary)

Otto, Kurt *see* **Åhlander, Krister**, (**2004j:00014**)

65Z05 Applications to physics

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Bakholdin, I. B. Solitary waves and non-dissipative shock structures. (English summary) **2004i:76138**

Bergamin, Jeroen M. Numerical approximation of breathers in lattices with nearest-neighbor interactions. (English summary) **2004c:37186**

Ferroglia, Andrea (*with* Passera, Massimo; Passarino, Giampiero; Uccirati, Sandro) All-purpose numerical evaluation of one-loop multi-leg Feynman diagrams. (English summary) **2004c:81174**

Fibich, Gadi (*with* Ilan, Boaz; Tsynkov, S. V.) Backscattering and nonparaxiality arrest collapse of damped nonlinear waves. (English summary) **2004h:78035**

Ilan, Boaz *see* **Fibich, Gadi et al.**, **2004h:78035**

Keyes, David E. *see* **Knoll, D. A.**, **2004j:65066**

Knoll, D. A. (*with* Keyes, David E.) Jacobian-free Newton-Krylov methods: a survey of approaches and applications. (English summary) **2004j:65066**

Passarino, Giampiero *see* **Ferroglia, Andrea et al.**, **2004c:81174**

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Tsynkov, S. V. *see* **Fibich, Gadi et al.**, **2004h:78035**

Uccirati, Sandro *see* **Ferroglia, Andrea et al.**, **2004c:81174**

68–XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see Section –04 in that area.}

68–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Abello, James) *see* **Handbook: Massive data sets, 2004b:68001**
(Baader, Franz) *see* **Handbook: Description logic, 2004e:68001**
(Calvanese, Diego) *see* **Handbook: Description logic, 2004e:68001**
(Grabmeier, Johannes) *see* **Handbook: Computer algebra, 2004h:68001**
(Kaltofen, Erich) *see* **Handbook: Computer algebra, 2004h:68001**
(McGuinness, Deborah L.) *see* **Handbook: Description logic, 2004e:68001**
(Nardi, Daniele) *see* **Handbook: Description logic, 2004e:68001**
(Pardalos, Panos M.) *see* **Handbook: Massive data sets, 2004b:68001**
(Patel-Schneider, Peter F.) *see* **Handbook: Description logic, 2004e:68001**
(Resende, Mauricio G. C.) *see* **Handbook: Massive data sets, 2004b:68001**
(Weispfenning, Volker) *see* **Handbook: Computer algebra, 2004h:68001**

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Handbook:
Computer algebra ★ Computer algebra handbook. **2004h:68001**
Description logic ★ The description logic handbook. **2004e:68001**
Massive data sets ★ Handbook of massive data sets. **2004b:68001**

68–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Backhouse, Roland) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
Buss, Samuel R. ★ 3-D computer graphics. **2004c:68001**
(Crole, Roy L.) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
(Gibbons, Jeremy) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
Hehner, Eric C. R. From Boolean algebra to unified algebra.
Hitczenko, Paweł ★ Probabilistic analysis of sorting algorithms.
Lawson, Mark V. ★ Finite automata. **2004g:68001**
Malik, Davender S. *see* **Mordeson, John N., 2004a:68001**
Manna, Zohar ★ Mathematical theory of computation. **2004j:68001**
Mordeson, John N. (*with* Malik, Davender S.) ★ Fuzzy automata and languages. (English summary) **2004a:68001**

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Algebraic and coalgebraic methods in the mathematics of program construction ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
Lecture Notes in Computer Science ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
Oxford ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**

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Aigner, Martin ★ Diskrete Mathematik. (German) [Discrete mathematics]
Cohen, Joel S. ★ Computer algebra and symbolic computation. (English summary) **2004b:68193**
— ★ Computer algebra and symbolic computation. **2004b:68194**
(Corsi, Giovanna) *see* **Lavrov, I. A., 2004b:03001**
von zur Gathen, Joachim (*with* Gerhard, Jürgen) ★ Modern computer algebra. **2004g:68202**
Gerhard, Jürgen *see* **von zur Gathen, Joachim, 2004g:68202**
Goldreich, Oded ★ Foundations of cryptography. (English summary) **2004a:94042**
Hankerson, Darrel (*with* Harris, Greg A.; Johnson, Peter D., Jr.) ★ Introduction to information theory and data compression. **2004i:94027**
Harris, Greg A. *see* **Hankerson, Darrel et al., 2004i:94027**
Hudry, Olivier Machines de Turing et complexité algorithmique. (English and French summaries) [Turing machines and algorithmic complexity] **2004f:68033**
Johnson, James L. ★ Probability and statistics for computer science. **2004i:62002**
Johnson, Peter D., Jr. *see* **Hankerson, Darrel et al., 2004i:94027**
Kása, Zoltán ★ Combinatorică cu aplicaţii. (Romanian) [Combinatorics and applications]
Khoussainov, Bakhadyr (*with* Nerode, Anil) ★ Automata theory and its applications. (English summary) **2004e:03073**
Lavrov, I. A. (*with* Maksimova, Larisa) ★ Problems in set theory, mathematical logic and the theory of algorithms. **2004b:03001**
Maksimova, Larisa *see* **Lavrov, I. A., 2004b:03001**
Mazzola, Guerino (*with* Milmeister, Gérard; Weissmann, Jody) ★ Comprehensive mathematics for computer scientists. 1.
Milmeister, Gérard *see* **Mazzola, Guerino et al.**
Nerode, Anil *see* **Khoussainov, Bakhadyr, 2004e:03073**
(Shekhtman, V. B.) *see* **Lavrov, I. A., 2004b:03001**
Weissmann, Jody *see* **Mazzola, Guerino et al.**

68–02 Research exposition (monographs, survey articles)

(Baader, Franz) *see* **Küsters, Ralf, 2004k:68001**
Bubley, Russ ★ Randomized algorithms: approximation, generation, and counting. **2004e:68002**
Flocchini, Paola (*with* Roncato, Alessandro; Santoro, Nicola) Computing on anonymous networks with sense of direction. (English summary) **2004b:68002**
(Gmytrasiewicz, Piotr) *see* **Game theory and decision theory in agent-based systems, 2004h:68003**
Kern-Isberner, Gabriele ★ Conditionals in nonmonotonic reasoning and belief revision. **2004m:68001**
Küsters, Ralf ★ Non-standard inferences in description logics. **2004k:68001**
do Lago, Alair Pereira (*with* Simon, Imre) ★ Tópicos em algoritmos sobre seqüências. (Portuguese) [Algorithms for computing sequences] **2004m:68002**
(Parsons, Simon) *see* **Game theory and decision theory in agent-based systems, 2004h:68003**
Păun, Gheorghe ★ Membrane computing. **2004i:68001**
Roncato, Alessandro *see* **Flocchini, Paola et al., 2004b:68002**
Santoro, Nicola *see* **Flocchini, Paola et al., 2004b:68002**
Simon, Imre *see* **do Lago, Alair Pereira, 2004m:68002**
Terese ★ Term rewriting systems. **2004h:68002**
(Wooldridge, Michael) *see* **Game theory and decision theory in agent-based systems, 2004h:68003**

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Game theory and decision theory in agent-based systems ★ Game theory and decision theory in agent-based systems. **2004h:68003**
Lecture Notes in Computer Science *see* **Küsters, Ralf, 2004k:68001** *and* **Kern-Isberner, Gabriele, 2004m:68001**
Term rewriting systems *see* **Terese, 2004h:68002**

Items with secondary classifications in 68–02

(Baader, Franz) *see* **Handbook: Description logic, 2004e:68001**
(Backhouse, Roland) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
Calude, Cristian S. ★ Information and randomness. **2004g:68064**
(Calvanese, Diego) *see* **Handbook: Description logic, 2004e:68001**
(Chaitin, Gregory J.) *see* **Calude, Cristian S., 2004g:68064**
(Crole, Roy L.) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
Fortnow, Lance One complexity theorist's view of quantum computing. (English summary) **2004b:68044**
Frias, Marcelo Fabián ★ Fork algebras in algebra, logic and computer science. (English summary) **2004b:03112**
von zur Gathen, Joachim (*with* Gerhard, Jürgen) ★ Modern computer algebra. **2004g:68202**
Gerhard, Jürgen *see* **von zur Gathen, Joachim, 2004g:68202**
(Gibbons, Jeremy) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
Goldwasser, Shafi *see* **Micciancio, Daniele, 2004m:94067**
(Grabmeier, Johannes) *see* **Handbook: Computer algebra, 2004h:68001**
Hemaspaandra, Lane A. (*with* Torenvliet, Leen) ★ Theory of semi-feasible algorithms. (English summary) **2004g:68048**
(Kaltofen, Erich) *see* **Handbook: Computer algebra, 2004h:68001**
Leyton, Michael ★ A generative theory of shape. (English summary) **2004c:68134**
(McGuinness, Deborah L.) *see* **Handbook: Description logic, 2004e:68001**
Micciancio, Daniele (*with* Goldwasser, Shafi) ★ Complexity of lattice problems. **2004m:94067**
(Nardi, Daniele) *see* **Handbook: Description logic, 2004e:68001**
(Patel-Schneider, Peter F.) *see* **Handbook: Description logic, 2004e:68001**
(Salomaa, Arto) *see* **Calude, Cristian S., 2004g:68064**
Spinrad, Jeremy P. ★ Efficient graph representations. **2004e:05001**
Torenvliet, Leen *see* **Hemaspaandra, Lane A., 2004g:68048**
(Weispfenning, Volker) *see* **Handbook: Computer algebra, 2004h:68001**

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Algebraic and coalgebraic methods in the mathematics of program construction ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
Handbook:
Computer algebra ★ Computer algebra handbook. **2004h:68001**
Description logic ★ The description logic handbook. **2004e:68001**
Lecture Notes in Computer Science ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
Oxford ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**

68–03 Historical (must also be assigned at least one classification number from Section 01)

(Abbate, Janet) *see* **Women and gender in the history of computing**
(Babbage, Charles) *see* **Fuegi, John**
Blum, Lenore *see* **Cucker, Felipe, (2004g:65003)**
Cucker, Felipe (*with* Blum, Lenore) The work of Steve Smale on the theory of computation: 1990–1999. (*see* **2004g:65003**)
Davis, Martin ★ Engines of logic.
Francis, Jo *see* **Fuegi, John**
Fuegi, John (*with* Francis, Jo) Lovelace & Babbage and the creation of the 1843 'notes'. (English summary)
Hoare, C. A. R. Assertions: a personal perspective. (English summary) **2004c:68002**
Jones, Cliff B. The early search for tractable ways of reasoning about programs. (English summary) **2004c:68003**
(Lieserson, Charles E.) *see* **Newborn, Monty, 2004k:68002**
(Lovelace, Augusta Ada) *see* **Fuegi, John**
Newborn, Monty ★ Deep Blue. **2004k:68002**
(Smale, Stephen) *see* **Cucker, Felipe, (2004g:65003)**
Wirth, Niklaus Hardware/software co-design then and now. (English summary)

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Women and gender in the history of computing ★ Women and gender in the history of computing.

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Assad, Arjang A. IFORS' Operational Research Hall of Fame: Herbert A. Simon.
Burks, Alice Rowe ★ Who invented the computer? **2004e:01001**
Croarken, Mary Mary Edwards: computing for a living in 18th-century England. (English summary)
(Edwards, Mary) *see* **Croarken, Mary**
(Foerst, Anne) *see* **Knuth, Donald E., 2004a:00017**
Fortnow, Lance (*with* Homer, Steve) A short history of computational complexity.
(Harris, Zellig) *see* **Legacy of Zellig Harris: language and information into the 21st century, 2004d:68159**
(Hlawka, Edmund) *see* **Edmund Hlawka, 2004e:01066**
(Hofstadter, Douglas) *see* **Burks, Alice Rowe, 2004e:01001**
Homer, Steve *see* **Fortnow, Lance**
(Johnson, Stephen M.) *see* **Legacy of Zellig Harris: language and information into the 21st century, 2004d:68159**
Knuth, Donald E. ★ Things a computer scientist rarely talks about. (English summary) **2004a:00017**
(Moskalyuk, S. S.) *see* **Edmund Hlawka, 2004e:01066**
Needham, Roger M. The Clifford Paterson lecture, 2002. Computer security? (English summary)
(Nevin, Bruce E.) *see* **Legacy of Zellig Harris: language and information into the 21st century, 2004d:68159**
(Simon, Herbert A.) *see* **Assad, Arjang A.**
(Thirring, Walter) *see* **Edmund Hlawka, 2004e:01066**
Turski, Władysław M. It was fun.
Wu, Wen Tsün Mental labor mechanization and mathematics mechanization in computer era. (Chinese. English and Chinese summaries)

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Hlawka, Edmund ★ Edmund Hlawka. (German) **2004e:01066**
Biography:
Edwards, Mary *see* **Croarken, Mary**
Hlawka, Edmund ★ Edmund Hlawka. (German) **2004e:01066**
Edmund Hlawka ★ Edmund Hlawka. (German) **2004e:01066**
Lectures:
Paterson, Clifford, Computer security *see* **Needham, Roger M.**
Legacy of Zellig Harris: language and information into the 21st century ★ The legacy of Zellig Harris: language and information into the 21st century. Vol. 2. **2004d:68159**
Obituary:
Simon, Herbert A. *see* **Assad, Arjang A.**

68–06 Proceedings, conferences, collections, etc.

(Aarts, E. H. L.) *see* **Workshop: Scheduling and Resource Management**
(Abe, Naoki) *see* **Algorithmic learning theory**
Aceto, Luca (*with* Fokkink, Willem Jan) Guest editors' introduction: special issue on structural operational semantics.
— *see also* **Difference between concurrent and sequential computation**
(Agrawal, Manindra) *see* **FST TCS 2002: Foundations of software technology and theoretical computer science, 2004j:68011**
(Albrecht, Rudolf F.) *see* **Artificial neural nets and genetic algorithms, 2004j:68003**
(Alt, Helmut) *see* **STACS 2002, 2004j:68020** *and* **Symposium: Theoretical Aspects of Computer Science**
(Amato, N.) *see* **ACM Symposium: Parallel Algorithms and Architectures**
(Artale, Alessandro) *see* **Temporal representation and reasoning (TIME)**
(Ashley, Kevin D.) *see* **Special Issue: AI and law**
(Ayesh, Aladdin) *see* **Special Issue: Perception and emotion based reasoning**
(Baaz, Matthias) *see* **Computer science logic, 2004j:68009**
(Baeten, J. C. M.) *see* **Probabilistic techniques for the design and analysis of systems**
(Bargiela, Andrzej) *see* **Granular computing**
(Baumgartner, Peter) *see* **First order theorem proving**
(Benferhat, Salem) *see* **Soft computing in recognition and search**
(Berry, Gérard) *see* **Computer aided verification, 2004j:68007**
Berstel, Jean (*with* Karhumäki, Juhani; Perrin, Dominique) Preface: Special issue on combinatorics on words.
(Bigun, Josef) *see* **Image analysis, 2004k:68005**
(Bilardi, Gianfranco) *see* **Symposium: Algorithms**
(Błażewicz, Jacek) *see* **Workshop: Scheduling in Computer and Manufacturing Systems**
(Bonizzoni, Paola) *see* **Special Issue: Bioinformatics**
(Bonuccelli, Maurizio) *see* **Algorithmic aspects of communication**
(Bosc, Patrick) *see* **Fuzzy databases**
(Boutilier, Craig) *see* **Planning with uncertainty and incomplete information**
(Bradfield, Julian C.) *see* **Computer science logic, 2004j:68008**
(Brewka, Gerhard) *see* **Computational dialectics**
(Brim, Luboš) *see* **CONCUR 2002—concurrency theory, 2004j:68004**
(Buneman, Peter) *see* **Special Issue: PODS**
(Burkhard, Hans-Dieter) *see* **Concurrency specification and programming** *and* **Special Issue: Concurrency specification and programming**
(Cai, Xiao-Qiang) *see* **Special Issue: Scheduling algorithms in parallel and distributed computing**
(Callaghan, Paul) *see* **Types for proofs and programs, 2004j:68022**
(Calude, Cristian S.) *see* **Unconventional models of computation, 2004j:68023; Discrete mathematics and theoretical computer science, 2004k:68004** *and* **Multiset processing, 2004k:68009**
(Carreño, Victor A.) *see* **Theorem proving in higher order logics, 2004k:68010**
(Chakraborty, Uday K.) *see* **Evolutionary computation**
(Champarnaud, Jean-Marc) *see* **Implementation and application of automata, 2004j:68013** *and* **Conference: Implementation and Application of Automata (CIAA 2002)**
(Chang, Ruay-Shiung) *see* **Symposium: Computer, International**
(Chen, Jian Er) *see* **Special Issue: Parameterized computation and complexity**
(Chen, Ming-Syan) *see* **Symposium: Computer, International**
(Cicalese, Ferdinando) *see* **Workshop: Combinatorics of Searching, Sorting, and Coding**
(Coffman, E. G., Jr.) *see* **Workshop: Scheduling in Computer and Manufacturing Systems**
(Cohen, Laurent D.) *see* **Special Issue: Mathematics and image analysis**
(Comon-Lundh, Hubert) *see* **Computer aided verification, 2004j:68007**
Condon, Anne E. Guest editor's foreword [Computational complexity 2002].
(Conejo, R.) *see* **Automata, languages and programming**
(Cordón, O.) *see* **Soft computing applications to intelligent information retrieval on the Internet** *and* **Genetic fuzzy systems: new developments**
(Cross, Valerie) *see* **Fuzzy databases**
(Czaja, Ludwik) *see* **Concurrency specification and programming** *and* **Special Issue: Concurrency specification and programming**
(Dang, Zhe) *see* **Implementation and application of automata, 2004j:68014**
(D'Argenio, Pedro R.) *see* **Probabilistic techniques for the design and analysis of systems**
(Dassow, Jürgen) *see* **Descriptional complexity of automata, grammars and related structures**
(Davis, Ernest) *see* **Logical formalizations and commonsense reasoning**
(Dawar, Anuj) *see* **Special Issue: ICC'99**
(Dean, Thomas) *see* **Planning with uncertainty and incomplete information**
(Dechter, Rina) *see* **Conference: Principles and Practice of Constraint Programming**
(Degano, Pierpaolo) *see* **Symposium: Programming, 12th European, ESOP 2003**
(Della Vedova, Gianluca) *see* **Special Issue: Bioinformatics**
(Demolombe, Robert) *see* **Special Issue: Deontic logic in computer science**
(Dinneen, Michael J.) *see* **Unconventional models of computation, 2004j:68023** *and* **Discrete mathematics and theoretical computer science, 2004k:68004**
(Dixon, Clare) *see* **Temporal representation and reasoning (TIME)**
(Doherty, Patrick) *see* **Workshop: Knowledge Representation and Approximate Reasoning**
Donovan, Diane (*with* Iliopoulos, Costas S.; Miller, Mirka) Editorial [Selected papers of the Thirteenth Australasian Workshop on Combinatorial Algorithms].
(Dounias, Georgios) *see* **Advances in computational intelligence and learning, 2004h:68004**
(Droste, Manfred) *see* **Logic and algebra for concurrency** *and* **Weighted automata: theory and applications**
(Dubois, Didier) *see* **Fuzzy set and possibility theory-based methods in artificial intelligence**
(Durand-Lose, Jérôme) *see* **Symposium: Theoretical Aspects of Computer Science**
(Ecker, Klaus) *see* **Workshop: Scheduling in Computer and Manufacturing Systems**
(Egly, Uwe) *see* **Automated reasoning with analytic tableaux and related methods, 2004k:68003**
(Eidenbenz, Stephan J.) *see* **Automata, languages and programming**
(Eiter, Thomas) *see* **Foundations of information and knowledge systems**
(El-Kwae, E.) *see* **Special Issue: Intelligent systems**
(Ésik, Zoltán) *see* **Developments in language theory, 2004j:68010** *and* **Fixed points in computer science (FICS'02)**
Everett, Hazel (*with* Wismath, Stephen K.) Editorial [Special issue on the 14th Canadian Conference on Computational Geometry—CCCG02].
(Fellows, Michael R.) *see* **Special Issue: Parameterized computation and complexity**
(Fermüller, Christian G.) *see* **Automated reasoning with analytic tableaux and related methods, 2004k:68003**
(Ferreira, Afonso Galvao) *see* **STACS 2002, 2004j:68020**
(Fiadeiro, José Luiz) *see* **Special Issue: In honour of W. M. Turski's 65th birthday**
(Finke, Gerd) *see* **Workshop: Scheduling in Computer and Manufacturing Systems**
(Finkel, Alain) *see* **Computer aided verification, 2004j:68007**
(Fisher, Michael D.) *see* **Temporal representation and reasoning (TIME)**
(Flammini, Michele) *see* **SIROCCO**
(Flesca, Sergio) *see* **Logics in artificial intelligence, 2004j:68015**
Fokkink, Willem Jan *see* **Aceto, Luca**
Fourey, Sébastien (*with* Herman, Gabor T.; Kong, T. Yung; Rosenfeld, Azriel) Preface [The 2001 International Workshop on Combinatorial Image Analysis].
(Fraigniaud, Pierre) *see* **ACM Symposium: Parallel Algorithms and Architectures**
(Franco, John) *see* **Renesse issue on satisfiability**
(Franconi, Enrico) *see* **Temporal representation and reasoning (TIME)**
(Fülöp, Zoltán) *see* **Developments in language theory, 2004j:68010**
(Gabbay, Dov M.) *see* **Special Issue: Trees in linguistics, logic and computer science**
(Gabrys, Bogdan) *see* **Integration of methods and hybrid systems**
(Gámez, José A.) *see* **New trends in probabilistic graphical models**
Garay, Juan A. (*with* Rajsbaum, Sergio) Preface [Latin American Theoretical INformatics].
(Gastin, Paul) *see* **Logic and algebra for concurrency**
(Gibbons, Jeremy) *see* **Generic programming, 2004c:68004**
(Girault-Beauquier, Danièle) *see* **Logic and complexity in computer science**
Godo, Lluís (*with* Sandri, Sandra) Preface [Special issue: Possibilistic logic and related issues].
(Goldberg, Andrew V.) *see* **Workshop: Algorithmic Engineering and Experiments**
(Gomide, Fernando Antonio) *see* **Genetic fuzzy systems: new developments**
(Goranko, Valentin) *see* **Special Issue: Trees in linguistics, logic and computer science**
(Grädel, Erich) *see* **Symposium: Logic in Computer Science**
(Greco, Sergio) *see* **Logics in artificial intelligence, 2004j:68015**
(de Groote, Philippe) *see* **Logical aspects of computational linguistics, 2004k:68007**
(Gustavsson, Tomas) *see* **Image analysis, 2004k:68005**
(Hagiya, Masami) *see* **Special Issue: DNA computing**
(Halpern, Joseph Y.) *see* **Symposium: Logic in Computer Science**
(Haveraaen, Magne) *see* **Workshop: Programming Theory, 14th Nordic**
(Helmbold, David) *see* **Computational learning theory, 2004j:68005**
(Hennessy, Matthew) *see* **Automata, languages and programming**
Herman, Gabor T. *see* **Fourey, Sébastien et al.**

(Herrera, Francisco) *see* Genetic fuzzy systems: new developments
(Herrera-Viedma, Enrique) *see* Soft computing applications to intelligent information retrieval on the Internet
(Hilpinen, Risto) *see* Special Issue: Deontic logic in computer science
Hinrichs, Erhard W. (*with* Meurers, W. Detmar; Wintner, Shuly) Linguistic theory and grammar implementation: introduction to this special issue.
(Hoffmann, Frank[2]) *see* Genetic fuzzy systems: new developments
(Hofmann, Martin) *see* Typed lambda calculi and applications, 2004j:68021
(Holub, Jan) *see* Conference: Stringology
(Huisman, Marieke) *see* Formal methods for smart cards
(Ianni, Giovambattista) *see* Logics in artificial intelligence, 2004j:68015
(Ibarra, Oscar H.) *see* Implementation and application of automata, 2004j:68014
Iliopoulos, Costas S. *see* Combinatorial algorithms *and* Donovan, Diane et al.
(Imaoka, Teruo) *see* Words, languages & combinatorics, 2004h:68006
(Ingólfsdóttir, Anna) *see* Fixed points in computer science (FICS'02)
(Italiano, Giuseppe F.) *see* Symposium: Algorithms
(Ito, Masami[1]) *see* Words, languages & combinatorics, 2004h:68006
(Jaghadeesan, Radha) *see* Symposium: Logic in Computer Science
(Jančar, Petr) *see* CONCUR 2002—concurrency theory, 2004j:68004
(Jaromczyk, Jerzy W.) *see* Computational geometry
(Jebelean, Tudor) *see* Workshop: Symbolic and Numeric Algorithms on Scientific Computing
(Jensen, Thomas P.) *see* Formal methods for smart cards
(Jeuring, Johan) *see* Generic programming, 2004c:68004
(Jiang, Tao[1]) *see* Special Issue: Bioinformatics
(Kaklamanis, Christos) *see* ACM Symposium: Parallel Algorithms and Architectures *and* Colloquium: Structural Information and Communication Complexity
(Kalyanasundaram, Bala) *see* Special Issue: On-line scheduling *and* Special Issue: On-line algorithm
(Kambhampati, Subbarao) *see* Special Issue: Planning
Kannan, Sampath (*with* Yannakakis, Mihalis) Guest editors' foreword [Special issue on STOC 2001].
Karhumäki, Juhani *see* Berstel, Jean et al.
(Kern-Isberner, Gabriele) *see* Issues in uncertainty in AI
(Khardon, R.) *see* Algorithmic learning theory
(Kirousis, Lefteris M.) *see* Colloquium: Structural Information and Communication Complexity
(Kivinen, Jyrki) *see* Computational learning theory, 2004j:68006
(Kobayashi, Naoki) *see* TACS
(Koenig, Sven) *see* Planning with uncertainty and incomplete information
Kong, T. Yung *see* Fourey, Sébastien et al.
(Kopperman, Ralph D.) *see* Topology in computer science
(Korolev, L. N.) *see* Neural network computations and fuzzy sets
(Kowaluk, Mirosław) *see* Computational geometry
(Křetínský, Mojmír) *see* CONCUR 2002—concurrency theory, 2004j:68004
(Kučera, Antonín[2]) *see* CONCUR 2002—concurrency theory, 2004j:68004
(Landweber, Laura F.) *see* Evolution as computation, 2004i:68003
(Lawson, Jimmie D.) *see* Domain theory, logic and computation, 2004m:68003
(Lee, Seong-Whan) *see* Pattern recognition with support vector machines, 2004d:68002
(Leivant, Daniel) *see* Special Issue: ICC'99
(Leone, Nicola) *see* Logics in artificial intelligence, 2004j:68015
(Leuschel, Michael) *see* Logic based program synthesis and transformation, 2004k:68006
(Lindemann, Gabriela) *see* Special Issue: Concurrency specification and programming
(Liotta, Giuseppe) *see* Symposium: Graph Drawing
(Liu, Ying Ming) *see* Domain theory, logic and computation, 2004m:68003
(Longo, Giuseppe[1]) *see* Difference between concurrent and sequential computation
(Loui, Ronald P.) *see* Special Issue: AI and law
(Lu, Ruqian) *see* Special Issue: Artificial intelligence advances in China
(Lukasiewicz, Thomas) *see* Issues in uncertainty in AI
(Łukaszewicz, Witold) *see* Workshop: Knowledge Representation and Approximate Reasoning
(Luo, Mao Kang) *see* Domain theory, logic and computation, 2004m:68003
(Luo, Zhaohui) *see* Types for proofs and programs, 2004j:68022
(van Maaren, Hans) *see* Renesse issue on satisfiability
(Madey, Jan) *see* Special Issue: In honour of W. M. Turski's 65th birthday
(Magdalena, L.) *see* Genetic fuzzy systems: new developments
(Makowsky, Johann A.) *see* Computer science logic, 2004j:68009
(Marchetti-Spaccamela, Alberto) *see* Algorithmic aspects of communication
(Martín-Bautista, María J.) *see* Intelligent information systems
(Martín-Vide, Carlos) *see* Special Issue: Membrane computing
(Mastorakis, Nikos E.) *see* Computational intelligence and applications, 2004h:68005 *and* Advances in fuzzy systems and evolutionary computation, 2004j:68002
(Matiyasevich, Yu. V.) *see* Logic and complexity in computer science
(Maurel, Denis) *see* Implementation and application of automata, 2004j:68013 *and* Conference: Implementation and Application of Automata (CIAA 2002)
(McKinna, James) *see* Types for proofs and programs, 2004j:68022
(Mesiar, Radko) *see* Aggregation techniques
Meurers, W. Detmar *see* Hinrichs, Erhard W. et al.
(Meyer auf der Heide, Friedhelm) *see* ACM Symposium: Parallel Algorithms and Architectures
(Middeldorp, Aart) *see* RTA 2001
Miller, Mirka *see* Donovan, Diane et al.
Mitzenmacher, Michael *see* de la Torre, Pilar et al.
(Montes Rodríguez, Susana) *see* Aggregation techniques
(Morales-Bueno, Rafael) *see* Automata, languages and programming
(Morgenstern, Leora) *see* Foundations of artificial intelligence *and* Logical formalizations and commonsense reasoning
(Morrill, Glyn) *see* Logical aspects of computational linguistics, 2004k:68007
(Mundici, Daniele) *see* Workshop: Combinatorics of Searching, Sorting, and Coding
(Muñoz, César A.) *see* Theorem proving in higher order logics, 2004k:68010
(Nardelli, Enrico) *see* SIROCCO
(Nareyek, Alexander) *see* Special Issue: Planning
(Negru, Viorel) *see* Workshop: Symbolic and Numeric Algorithms on Scientific Computing
(Néraud, Jean) *see* Words
Nestmann, Uwe (*with* Panangaden, Prakash) Guest editors' foreword: [9th International workshop on Expressiveness in concurrency (EXPRESS'02)].
(Nipkow, Tobias) *see* Java bytecode verification
(Olariu, Stephan) *see* I-SPAN 2002 *and* Quantum computing
(Olver, Peter J.) *see* Mathematical methods in computer vision, 2004k:68008
(Pan, Yi) *see* Special Issue: Parallel and distributed computing
Panangaden, Prakash *see* Nestmann, Uwe
(Păun, Gheorghe) *see* Multiset processing, 2004k:68009 *and* Special Issue: Membrane computing
(Pearson, David W.) *see* Artificial neural nets and genetic algorithms, 2004j:68003
(Pedrycz, Witold) *see* Granular computing
(Peper, Ferdinand) *see* Unconventional models of computation, 2004j:68023
Perrin, Dominique *see* Berstel, Jean et al.
(Persiano, Giuseppe) *see* Algorithms and complexity, 2004j:68002
(Petreschi, Rossella) *see* Algorithms and complexity, 2004j:68002
(Petry, Frederick) *see* Fuzzy databases
(Pierce, Benjamin C.) *see* TACS
(Piperno, Adolfo) *see* Symposium: Logic in Computer Science
(Pivert, Olivier) *see* Fuzzy databases
(Pollack, Robert[1]) *see* Types for proofs and programs, 2004j:68022
(Pons, Olga) *see* Intelligent information systems
(Popovici, Adriana) *see* Workshop: Symbolic and Numeric Algorithms on Scientific Computing
(Prade, Henri) *see* Fuzzy set and possibility theory-based methods in artificial intelligence
(Prakken, Henry) *see* Computational dialectics
(Proietti, Guido) *see* SIROCCO
(Pruhs, Kirk R.) *see* Symposium: Discrete Algorithms; Special Issue: On-line scheduling; Special Issue: On-line algorithm *and* Workshop: Scheduling and Resource Management
(Radzik, Tomasz) *see* Combinatorial algorithms
Rajaraman, Rajmohan *see* de la Torre, Pilar et al.
Rajsbaum, Sergio *see* Garay, Juan A.
(Raś, Zbigniew W.) *see* Special Issue: Intelligent systems
(Raschid, Louiqa) *see* Special Issue: Mining web-based data for e-business applications
(Reichel, Bernd) *see* Descriptional complexity of automata, grammars and related structures
(Reif, John H.) *see* Special Issue: STOC2002
(Retoré, Christian) *see* Logical aspects of computational linguistics, 2004k:68007 *and* Special Issue: Resource logics and minimalist grammars
(Rissland, Edwina L.) *see* Special Issue: AI and law
(Rolim, José D. P.) *see* Randomization and approximation techniques in computer science, 2004j:68019
Rosenfeld, Azriel *see* Fourey, Sébastien et al.
(Rozenberg, Grzegorz) *see* Multiset processing, 2004k:68009 *and* Special Issue: DNA computing
(Salmerón, Antonio) *see* New trends in probabilistic graphical models
(Salomaa, Arto) *see* Multiset processing, 2004k:68009
Sandri, Sandra *see* Godo, Lluis
Sassone, Vladimiro Introduction to special issue on concurrency and coordination: selected work from the International Workshop ConCoord.
(Schewe, Klaus-Dieter) *see* Foundations of information and knowledge systems
(Schwichtenberg, Helmut) *see* Proof and system-reliability, 2004d:68003
(Seth, Anil) *see* FST TCS 2002: Foundations of software technology and theoretical computer science, 2004j:68011
(Shen, Xuemin) *see* Communication networks
(Shieh, ShiuhPyng Winston) *see* Symposium: Computer, International
(Shimasaki, Masaaki) *see* Special Issue: Scheduling algorithms in parallel and distributed computing
(Shimony, Solomon Eyal) *see* Foundations of artificial intelligence
(Silvestri, Riccardo) *see* Algorithms and complexity, 2004j:68002
(Skowron, Andrzej) *see* Workshop: Knowledge Representation and Approximate Reasoning
(Slissenko, A. O.) *see* Logic and complexity in computer science
(Sloan, Robert H.) *see* Computational learning theory, 2004j:68006
(Smyth, Michael B.) *see* Topology in computer science
(van Someren, Maarten) *see* Advances in computational intelligence and learning, 2004h:68004
(Speckenmeyer, Ewald) *see* Renesse issue on satisfiability
(Spirakis, Paul G.) *see* SIROCCO
(Spreen, Dieter) *see* Topology in computer science
(Stabler, Edward P., Jr.) *see* Special Issue: Resource logics and minimalist grammars
(Starke, Peter) *see* Concurrency specification and programming *and* Special Issue: Concurrency specification and programming
(Steele, Nigel C.) *see* Artificial neural nets and genetic algorithms, 2004j:68003
(Steinbrüggen, Ralf) *see* Proof and system-reliability, 2004d:68003
(Sugihara, Kokichi) *see* Workshop: Computational Geometry and Applications
(Suri, Subhash) *see* ACM Symposium: Computational Geometry
(Szałas, Andrzej) *see* Workshop: Knowledge Representation and Approximate Reasoning
(Tahar, Sofiène) *see* Theorem proving in higher order logics, 2004k:68010
(Tannenbaum, Allen) *see* Mathematical methods in computer vision, 2004k:68008
(Tarlecki, Andrzej) *see* Special Issue: In honour of W. M. Turski's 65th birthday
de la Torre, Pilar (*with* Mitzenmacher, Michael; Rajaraman, Rajmohan; Vöcking, Berthold) [14th Annual ACM Symposium on Parallel Algorithms and Architectures].
(Triguero Ruiz, Francisco A.) *see* Automata, languages and programming
(Tselentis, Georgios) *see* Advances in computational intelligence and learning, 2004h:68004
(Turán, György) *see* Knowledge discovery and learning
(Turski, Władysław M.) *see* Special Issue: In honour of W. M. Turski's 65th birthday
(Tuzhilin, Alex) *see* Special Issue: Mining web-based data for e-business applications
(Uustalu, Tarmo) *see* Programming theory
(Vaccaro, Ugo) *see* Workshop: Combinatorics of Searching, Sorting, and Coding

(Vadhan, Salil) *see* **Randomization and approximation techniques in computer science, 2004j:68019**
(Vain, Jüri) *see* **Programming theory *and* Workshop: Programming Theory, 14th Nordic**
(Vajnovszki, Vincent) *see* **Discrete mathematics and theoretical computer science, 2004k:68004**
Veltkamp, Remco C. Shape algorithmics.
(Verri, Alessandro) *see* **Pattern recognition with support vector machines, 2004d:68002**
(Victor, Björn) *see* **Difference between concurrent and sequential computation**
(Vila, M. Amparo) *see* **Intelligent information systems**
(Vlahavas, Ioannis) *see* **Knowledge discovery from distributed information sources**
Vöcking, Berthold *see* **de la Torre, Pilar et al.**
(Vogler, Heiko) *see* **Weighted automata: theory and applications**
(Vreeswijk, Gerard) *see* **Computational dialectics**
(Wang, Farn) *see* **Verification and analysis of infinite state systems**
(Wang, Kewen) *see* **Special Issue: Artificial intelligence advances in China**
(Watson, Bruce W.) *see* **Implementation and application of automata, 2004j:68012**
(Weydert, Emil) *see* **Issues in uncertainty in AI**
(Whitesides, Sue H.) *see* **Symposium: Graph Drawing**
(Widmayer, Peter) *see* **Automata, languages and programming**
(Williamson, Robert C.) *see* **Computational learning theory, 2004j:68005**
(Winfree, Erik) *see* **Evolution as computation, 2004i:68003**
Wintner, Shuly *see* **Hinrichs, Erhard W. et al.**
Wismath, Stephen K. *see* **Everett, Hazel**
(Woeginger, Gerhard J.) *see* **Special Issue: Scheduling algorithms in parallel and distributed computing**
(Wood, Derick) *see* **Implementation and application of automata, 2004j:68012**
(Wotschke, Detlef) *see* **Descriptional complexity of automata, grammars and related structures**
(Xiang, Yang[1]) *see* **Soft computing in recognition and search**
(Yang, Laurence Tianruo) *see* **Special Issue: Parallel and distributed computing**
Yannakakis, Mihalis *see* **Kannan, Sampath**
(Yen, Hsu-Chun) *see* **Verification and analysis of infinite state systems**
(Zadeh, Lotfi A.) *see* **Computational intelligence and applications, 2004h:68005**
(Zhang, Guo-Qiang) *see* **Domain theory, logic and computation, 2004m:68003**
(Zhang, Hantao) *see* **First order theorem proving**
(Zimmermann, Hans-Jürgen) *see* **Advances in computational intelligence and learning, 2004h:68004**

Items listed otherwise than by author

Abstract state machines 2001: new developments and applications ★ Abstract state machines 2001: new developments and applications.
ACM Symposium:
Computational Geometry ★ ACM Symposium on Computational Geometry.
Parallel Algorithms and Architectures ★ ACM Symposium on Parallel Algorithms and Architectures.
Theory of Computing ★ Special issue on STOC2002.
Advances in computational intelligence and learning ★ Advances in computational intelligence and learning. **2004h:68004**
Advances in fuzzy systems and evolutionary computation ★ Advances in fuzzy systems and evolutionary computation. **2004i:68002**
Aggregation techniques ★ Aggregation techniques.
Albufeira ★ Integration of methods and hybrid systems.
Algorithmic aspects of communication ★ Algorithmic aspects of communication.
Algorithmic learning theory ★ Algorithmic learning theory.
Algorithms and complexity ★ Algorithms and complexity. **2004j:68002**
Amsterdam ★ Computational learning theory. **2004j:68005**
— ★ Selected papers from the International Workshop on Computational Geometry and Applications.
Andros ★ Ninth International Colloquium on Structural Information and Communication Complexity.
Antibes-Juan les Pins ★ STACS 2002. **2004j:68020**
— ★ Symposium on Theoretical Aspects of Computer Science.
Artificial neural nets and genetic algorithms ★ Artificial neural nets and genetic algorithms. **2004j:68003**
Automata, languages and programming ★ Automata, languages and programming.
Automated reasoning with analytic tableaux and related methods ★ Automated reasoning with analytic tableaux and related methods. **2004k:68003**
Baltimore, MD ★ Proceedings of the Fourteenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2004a:68002**
Barcelona ★ ACM Symposium on Computational Geometry.
Berlin ★ Special issue on concurrency specification and programming.
— ★ Special issue on concurrency specification and programming. Part 1.
— ★ Special issue on concurrency specification and programming. Part 2.
Binding environmental sciences and artificial intelligence ★ Binding environmental sciences and artificial intelligence.
Bologna ★ Algorithmic aspects of communication.
Boston, MA ★ 16th Annual Symposium on Logic in Computer Science 2001.
Brno ★ CONCUR 2002—concurrency theory. **2004j:68004**
Cambridge, MA ★ Randomization and approximation techniques in computer science. **2004j:68019**
Charlotte, NC ★ Special issue on intelligent systems.
Chengdu ★ Domain theory, logic and computation. **2004m:68003**
Christchurch ★ Twelfth Annual International Symposium of Algorithms and Computation.

Colloquium:
Structural Information and Communication Complexity ★ Ninth International Colloquium on Structural Information and Communication Complexity.
— ★ SIROCCO 2000.
Combinatorial algorithms ★ Combinatorial algorithms.
Communication networks ★ Communication networks.
Computational dialectics ★ Computational dialectics.
Computational geometry ★ Computational geometry—EWCG'02.
Computational intelligence and applications ★ Computational intelligence and applications. **2004h:68005**
Computational learning theory ★ Computational learning theory. **2004j:68005**
— ★ Computational learning theory. **2004j:68006**
— ★ Computational learning theory.
Computer aided verification ★ Computer aided verification. **2004j:68007**
Computer science logic ★ Computer science logic. **2004j:68008**
— ★ Computer science logic. **2004j:68009**
CONCUR 2002—concurrency theory ★ CONCUR 2002—concurrency theory. **2004j:68004**
Concurrency specification and programming ★ Concurrency specification and programming.

Conference:
Artificial Neural Networks and Genetic Algorithms ★ Artificial neural nets and genetic algorithms. **2004j:68003**
Computational Science ★ Selected papers from the International Workshop on Computational Geometry and Applications.
Computing and Combinatorics, 8th Annual International, COCOON'02 ★ Computing and Combinatorics Conference—COCOON'02.
Evolutionary and Bioinspired Algorithms ★ Soft computing applications to intelligent information retrieval on the Internet.
Florida Artificial Intelligence Research Society ★ Soft computing in recognition and search.
Implementation and Application of Automata (CIAA 2002) ★ Selected papers from CIAA 2002.
ISKO ★ Soft computing applications to intelligent information retrieval on the Internet.
PhD Students in Computer Science ★ {The 3rd Conference for PhD Students in Computer Science (CSCS)}.
Principles and Practice of Constraint Programming ★ Special issue of the Sixth International Conference on Principles and Practice of Constraint Programming.
Rewriting Techniques and Applications ★ RTA 2001.
Stringology ★ Prague Stringology Conference.
Copenhagen ★ Automated reasoning with analytic tableaux and related methods. **2004k:68003**
— ★ Fixed points in computer science (FICS'02).
Cosenza ★ Logics in artificial intelligence. **2004j:68015**
Crete ★ ACM Symposium on Parallel Algorithms and Architectures.
Créteil ★ Logic and complexity in computer science.
Cuenca ★ New trends in probabilistic graphical models.
Curtea de Argeş ★ Special issue on membrane computing.
Dagstuhl ★ Generic programming. **2004c:68004**
— ★ Inference in computational semantics: the Dagstuhl Workshop 2000.
Dagstuhl Castle ★ Selected papers from the Dagstuhl Workshop on Scheduling in Computer and Manufacturing Systems.
Dependent type theory meets practical programming ★ Dependent type theory meets practical programming.
Descriptional complexity of automata, grammars and related structures ★ Descriptional complexity of automata, grammars and related structures.
Developments in language theory ★ Developments in language theory. **2004j:68010**
Difference between concurrent and sequential computation ★ The difference between concurrent and sequential computation.
— ★ The difference between concurrent and sequential computation. 2.
Dijon ★ Discrete mathematics and theoretical computer science. **2004k:68004**
Discrete mathematics and theoretical computer science ★ Discrete mathematics and theoretical computer science. **2004k:68004**
Domain theory, logic and computation ★ Domain theory, logic and computation. **2004m:68003**
Dresden ★ Logic and algebra for concurrency.
— ★ Weighted automata: theory and applications.
Durham ★ Types for proofs and programs. **2004j:68022**
Edinburgh ★ Computer science logic. **2004j:68008**
Eindhoven ★ 1999 Philips Workshop on Scheduling and Resource Management.
Evolution as computation ★ Evolution as computation. **2004i:68003**
Evolutionary computation ★ Evolutionary computation.
Festschrift:
Slissenko, A. O. ★ Logic and complexity in computer science.
Turski, Władysław M. ★ Special issue to honour Professor W. M. Turski's contribution to computing science on the occasion of his 65th birthday.
Zadeh, Lotfi A. ★ Computational intelligence and applications. **2004h:68005**
First order theorem proving ★ First order theorem proving.
Fixed points in computer science (FICS'02) ★ Fixed points in computer science (FICS'02).
Formal methods for smart cards ★ Formal methods for smart cards.
Foundations of artificial intelligence ★ Foundations of artificial intelligence VI.
Foundations of information and knowledge systems ★ Foundations of information and knowledge systems.
FST TCS 2002: Foundations of software technology and theoretical computer science ★ FST TCS 2002: Foundations of software technology and theoretical computer science. **2004j:68011**
Fuzzy databases ★ Fuzzy databases.
Fuzzy set and possibility theory-based methods in artificial intelligence ★ Fuzzy set and possibility theory-based methods in artificial intelligence.
Generic programming ★ Generic programming. **2004c:68004**
Genetic fuzzy systems: new developments ★ Genetic fuzzy systems: new developments.
Granada ★ Soft computing applications to intelligent information retrieval on the Internet.
Granular computing ★ Granular computing.
Halmstad ★ Image analysis. **2004k:68005**
Hampton, VA ★ Theorem proving in higher order logics. **2004k:68010**

Heuristic search and computer game playing ★ Heuristic search and computer game playing. III.
Hualien ★ International Computer Symposium.
I-SPAN 2002 ★ I-SPAN 2002.
Image analysis ★ Image analysis. **2004k:68005**
Implementation and application of automata ★ Implementation and application of automata. **2004j:68012**
— ★ Implementation and application of automata. **2004j:68013**
— ★ Implementation and application of automata. **2004j:68014**
— ★ Implementation and application of automata.
Integration of methods and hybrid systems ★ Integration of methods and hybrid systems.
Intelligent information systems ★ Intelligent information systems.
Ischia ★ 1st International Workshop on Combinatorics of Searching, Sorting, and Coding (COSSAC '01).
Issues in uncertainty in AI ★ Issues in uncertainty in AI.
Java bytecode verification ★ Java bytecode verification.
Kanpur ★ FST TCS 2002: Foundations of software technology and theoretical computer science. **2004j:68011**
Knowledge discovery and learning ★ Knowledge discovery and learning.
Knowledge discovery from distributed information sources ★ Knowledge discovery from distributed information sources.
Kobe ★ Unconventional models of computation. **2004j:68023**
Kyoto ★ Words, languages & combinatorics III. **2004h:68006**
L'Aquila ★ SIROCCO 2000.
Las Palmas ★ Abstract state machines 2001: new developments and applications.
Le Croisic ★ Logical aspects of computational linguistics. **2004k:68007**
Lecture Notes in Computer Science ★ Computational learning theory. **2004j:68005**
— ★ Computer aided verification. **2004j:68007**
— ★ Logical aspects of computational linguistics. **2004k:68007**
— ★ Multiset processing. **2004k:68009**
— ★ Pattern recognition with support vector machines. **2004d:68002**
— ★ CONCUR 2002—concurrency theory. **2004j:68004**
— ★ Computational learning theory. **2004j:68006**
— ★ Computer science logic. **2004j:68008**
— ★ FST TCS 2002: Foundations of software technology and theoretical computer science. **2004j:68011**
— ★ Implementation and application of automata. **2004j:68012**
— ★ Logics in artificial intelligence. **2004j:68015**
— ★ Randomization and approximation techniques in computer science. **2004j:68019**
— ★ STACS 2002. **2004j:68020**
— ★ Types for proofs and programs. **2004j:68022**
— ★ Unconventional models of computation. **2004j:68023**
— ★ Automated reasoning with analytic tableaux and related methods. **2004k:68003**
— ★ Theorem proving in higher order logics. **2004k:68010**
— ★ Algorithms and complexity. **2004j:68002**
— ★ Computer science logic. **2004j:68009**
— ★ Developments in language theory. **2004j:68010**
— ★ Implementation and application of automata. **2004j:68013**
— ★ Implementation and application of automata. **2004j:68014**
— ★ Typed lambda calculi and applications. **2004j:68021**
— ★ Discrete mathematics and theoretical computer science. **2004k:68004**
— ★ Image analysis. **2004k:68005**
— ★ Logic based program synthesis and transformation. **2004k:68006**
Lille ★ Proceedings of the 2002 International Symposium on Symbolic and Algebraic Computation. **2004j:68017**
Logic and algebra for concurrency ★ Logic and algebra for concurrency.
Logic and complexity in computer science ★ Logic and complexity in computer science.
Logic based program synthesis and transformation ★ Logic based program synthesis and transformation. **2004k:68006**
Logical aspects of computational linguistics ★ Logical aspects of computational linguistics. **2004k:68007**
Logical formalizations and commonsense reasoning ★ Logical formalizations and commonsense reasoning.
Logics in artificial intelligence ★ Logics in artificial intelligence. **2004j:68015**
London, ON ★ Proceedings of the 2001 International Symposium on Symbolic and Algebraic Computation. **2004j:68016**
Lyon ★ Binding environmental sciences and artificial intelligence.
Madrid ★ Logic based program synthesis and transformation. **2004k:68006**
Makati City ★ I-SPAN 2002.
Málaga ★ Automata, languages and programming.
Manchester ★ Temporal representation and reasoning (TIME).
Marktoberdorf ★ Proof and system-reliability. **2004d:68003**
Mathematical methods in computer vision ★ Mathematical methods in computer vision. **2004k:68008**
Mérida ★ Soft computing applications to intelligent information retrieval on the Internet.
Minneapolis, MN ★ Mathematical methods in computer vision. **2004k:68008**
Montreal, QC ★ Sixth International Symposium on Graph Drawing, GD'98.
— ★ Special issue on STOC2002.
Multiset processing ★ Multiset processing. **2004k:68009**
Neural network computations and fuzzy sets ★ Нейросетевые вычисления и нечеткие множества. (Russian) [Neural network computations and fuzzy sets]
New trends in probabilistic graphical models ★ New trends in probabilistic graphical models.
New York ★ Logical formalizations and commonsense reasoning.
Newcastle upon Tyne ★ Special issue on application of concurrency to system design.
Niagara Falls, ON ★ Pattern recognition with support vector machines. **2004d:68002**
Olsztyn ★ 1st International Workshop on Knowledge Representation and Approximate Reasoning (KR&AR).
Paris ★ Computer aided verification. **2004j:68007**
— ★ Special issue on mathematics and image analysis.
Pattern recognition with support vector machines ★ Pattern recognition with support vector machines. **2004d:68002**
Pensacola, FL ★ Soft computing in recognition and search.
Philadelphia, PA ★ Proceedings of the 2003 International Symposium on Symbolic and Algebraic Computation. **2004j:68018**
Planning with uncertainty and incomplete information ★ Planning with uncertainty and incomplete information.
Pretoria ★ Implementation and application of automata. **2004j:68012**
— ★ Implementation and application of automata.
Princeton, NJ ★ Evolution as computation. **2004i:68003**
Probabilistic techniques for the design and analysis of systems ★ Probabilistic techniques for the design and analysis of systems.
Proceedings:
Symposium and Discrete Algorithms ★ Proceedings of the Fourteenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2004a:68002**
Symposium on Symbolic and Algebraic Computation, 2001 International ★ Proceedings of the 2001 International Symposium on Symbolic and Algebraic Computation. **2004j:68016**
Symposium on Symbolic and Algebraic Computation, 2002 International ★ Proceedings of the 2002 International Symposium on Symbolic and Algebraic Computation. **2004j:68017**
Symposium on Symbolic and Algebraic Computation, 2003 International ★ Proceedings of the 2003 International Symposium on Symbolic and Algebraic Computation. **2004j:68018**
Programming theory ★ Programming theory NWTP '02.
Proof and system-reliability ★ Proof and system-reliability. **2004d:68003**
Quantum computing ★ Quantum computing.
Randomization and approximation techniques in computer science ★ Randomization and approximation techniques in computer science. **2004j:68019**
Renesse ★ The Renesse issue on satisfiability.
Renesse issue on satisfiability ★ The Renesse issue on satisfiability.
Rhodes ★ Special issue on scheduling algorithms in parallel and distributed computing.
Roanne ★ Artificial neural nets and genetic algorithms. **2004j:68003**
Rome ★ Algorithms and complexity. **2004j:68002**
RTA 2001 ★ RTA 2001.
San Francisco, CA ★ Second Workshop on Algorithmic Engineering and Experiments (ALENEX 00).
— ★ Special issue on parallel and distributed computing.
Santa Barbara, CA ★ Implementation and application of automata. **2004j:68014**
— ★ Special issue on PODS 2001.
Sapporo ★ Special issue on DNA computing.
Schloß Dagstuhl ★ Topology in computer science.
— ★ Dependent type theory meets practical programming.
Schloß Salzau ★ Foundations of information and knowledge systems.
Semantics, applications, and implementation of program generation ★ Semantics, applications, and implementation of program generation.
Seminar:
Topology in Computer Science: Constructivity, Asymmetry and Partiality, Digitization ★ Topology in computer science.
Sendai ★ TACS 2001.
Singapore ★ Special issue of the Sixth International Conference on Principles and Practice of Constraint Programming.
— ★ Computing and Combinatorics Conference—COCOON'02.
SIROCCO ★ SIROCCO 2000.
Soft computing applications to intelligent information retrieval on the Internet ★ Soft computing applications to intelligent information retrieval on the Internet.
Soft computing in recognition and search ★ Soft computing in recognition and search.
Special Issue:
AI and law ★ Special issue on AI and law.
Application of concurrency to system design ★ Special issue on application of concurrency to system design.
Artificial intelligence advances in China ★ Special issue on artificial intelligence advances in China.
Bioinformatics ★ Special issue on bioinformatics.
Cellular automata ★ Special issue on cellular automata.
Computing patterns in strings ★ Special issue on computing patterns in strings.
Concurrency specification and programming ★ Special issue on concurrency specification and programming.
— ★ Special issue on concurrency specification and programming. Part 1.
— ★ Special issue on concurrency specification and programming. Part 2.
Deontic logic in computer science ★ Special issue on deontic logic in computer science.
DNA computing ★ Special issue on DNA computing.
ICC'99 ★ Special issue: ICC'99.
In honour of W. M. Turski's 65th birthday ★ Special issue to honour Professor W. M. Turski's contribution to computing science on the occasion of his 65th birthday.
Intelligent systems ★ Special issue on intelligent systems.
Logical frameworks and metalanguages ★ Special issue on "Logical frameworks and metalanguages".
Mathematics and image analysis ★ Special issue on mathematics and image analysis.
Membrane computing ★ Special issue on membrane computing.
— ★ Special issue on membrane computing.
Mining web-based data for e-business applications ★ Special issue on mining web-based data for e-business applications.
On-line algorithm ★ Special issue: On-line algorithm. Part 1.
On-line scheduling ★ Special issue: On-line scheduling.
Parallel and distributed computing ★ Special issue on parallel and distributed computing.
Parameterized computation and complexity ★ Special issue on parameterized computation and complexity.
Perception and emotion based reasoning ★ Special issue on perception and emotion based reasoning.

Special Issue: (*cont'd.*)
Planning ★ Special issue on planning.
PODS ★ Special issue on PODS 2001.
Program development ★ Special issue on 'Program development'.
Programming with answer sets ★ Special issue on programming with answer sets.
Qualitative spatial reasoning ★ Special issue on qualitative spatial reasoning.
Resource logics and minimalist grammars ★ Special issue on resource logics and minimalist grammars.
Scheduling algorithms in parallel and distributed computing ★ Special issue on scheduling algorithms in parallel and distributed computing.
STOC2002 ★ Special issue on STOC2002.
Trees in linguistics, logic and computer science ★ Special issue on trees in linguistics, logic and computer science.
Visual surveillance of dynamic scenes ★ Special issue on visual surveillance of dynamic scenes.
St. Andrews ★ First order theorem proving.
STACS 2002 ★ STACS 2002. **2004j:68020**
Sydney ★ Computational learning theory. **2004j:68006**
Symposium:
Algorithms ★ 1998 European Symposium on Algorithms.
Algorithms and Computation, 12th Annual International ★ Twelfth Annual International Symposium of Algorithms and Computation.
Computer, International ★ International Computer Symposium.
Discrete Algorithms ★ Twelfth Annual ACM-SIAM Symposium on Discrete Algorithms.
Graph Drawing ★ Sixth International Symposium on Graph Drawing, GD'98.
Logic in Computer Science ★ 16th Annual Symposium on Logic in Computer Science 2001.
Methodologies for Intelligent Systems ★ Special issue on intelligent systems.
Parallel and Distributed Processing ★ Special issue on parallel and distributed computing.
Parallel Architectures, Algorithms and Networks ★ I-SPAN 2002.
Principles of Database Systems ★ Special issue on PODS 2001.
Programming, 12th European, ESOP 2003 ★ 12th European Symposium on Programming (ESOP 2003).
Theoretical Aspects of Computer Science ★ Symposium on Theoretical Aspects of Computer Science.
Theoretical Aspects of Computer Software ★ TACS 2001.
Szeged ★ Developments in language theory. **2004j:68010**
— ★ {The 3rd Conference for PhD Students in Computer Science (CSCS)}.
TACS ★ TACS 2001.
Tallinn ★ Programming theory NWTP '02.
— ★ Fourteenth Nordic Workshop on Programming Theory (NWPT'02).
Tarragona ★ Special issue on membrane computing.
Temporal representation and reasoning (TIME) ★ Temporal representation and reasoning (TIME).
Theme: Computer science ★ Theme: Computer science.
Theorem proving in higher order logics ★ Theorem proving in higher order logics. **2004k:68010**
Timişoara ★ The 2nd International Workshop on Symbolic and Numeric Algorithms on Scientific Computing.
Topology in computer science ★ Topology in computer science.
Toulouse ★ Special issue on deontic logic in computer science.
Tours ★ Implementation and application of automata. **2004j:68013**
— ★ Selected papers from CIAA 2002.
Trento ★ Special issue: ICC'99.
Typed lambda calculi and applications ★ Typed lambda calculi and applications. **2004j:68021**
Types for proofs and programs ★ Types for proofs and programs. **2004j:68022**
Unconventional models of computation ★ Unconventional models of computation. **2004j:68023**
University Park, PA ★ The difference between concurrent and sequential computation.
Utrecht ★ RTA 2001.
Valencia ★ Typed lambda calculi and applications. **2004j:68021**
Venice ★ 1998 European Symposium on Algorithms.
Verification and analysis of infinite state systems ★ Verification and analysis of infinite state systems.
Vienna ★ Descriptional complexity of automata, grammars and related structures.
— ★ Computer science logic. **2004j:68009**
— ★ Issues in uncertainty in AI.
Warsaw ★ Concurrency specification and programming.
— ★ Special issue to honour Professor W. M. Turski's contribution to computing science on the occasion of his 65th birthday.
— ★ Computational geometry—EWCG'02.
— ★ 12th European Symposium on Programming (ESOP 2003).
Washington, DC ★ Twelfth Annual ACM-SIAM Symposium on Discrete Algorithms.
— ★ Algorithmic learning theory.
Weighted automata: theory and applications ★ Weighted automata: theory and applications.
Words ★ Words.
Words, languages & combinatorics ★ Words, languages & combinatorics III. **2004h:68006**
Workshop:
Algorithmic Engineering and Experiments ★ Second Workshop on Algorithmic Engineering and Experiments (ALENEX 00).
Combinatorics of Searching, Sorting, and Coding ★ 1st International Workshop on Combinatorics of Searching, Sorting, and Coding (COSSAC '01).
Computational Geometry and Applications ★ Selected papers from the International Workshop on Computational Geometry and Applications.
Expressiveness in Concurrency ★ The difference between concurrent and sequential computation.
Implicit Computational Complexity ★ Special issue: ICC'99.

Workshop: (*cont'd.*)
Inference in Computational Semantics ★ Inference in computational semantics: the Dagstuhl Workshop 2000.
Knowledge Representation and Approximate Reasoning ★ 1st International Workshop on Knowledge Representation and Approximate Reasoning (KR&AR).
Programming Theory, 14th Nordic ★ Fourteenth Nordic Workshop on Programming Theory (NWPT'02).
Satisfiability ★ The Renesse issue on satisfiability.
Scheduling Algorithms for Parallel/Distributed Computing—from Theory to Practice ★ Special issue on scheduling algorithms in parallel and distributed computing.
Scheduling and Resource Management ★ 1999 Philips Workshop on Scheduling and Resource Management.
Scheduling in Computer and Manufacturing Systems ★ Selected papers from the Dagstuhl Workshop on Scheduling in Computer and Manufacturing Systems.
Scientific and Engineering Computing with Applications ★ Special issue on parallel and distributed computing.
Structured Programming: The Hard Core of Software Engineering ★ Special issue to honour Professor W. M. Turski's contribution to computing science on the occasion of his 65th birthday.
Symbolic and Numeric Algorithms on Scientific Computing ★ The 2nd International Workshop on Symbolic and Numeric Algorithms on Scientific Computing.

Items with secondary classifications in 68–06

(Aardal, Karen I.) *see* **Integer programming and combinatorial optimization, 2004j:90010**
(Abello, James) *see* **Handbook: Massive data sets, 2004b:68001**
(Akiyama, Jin) *see* **Discrete and computational geometry, 2004j:52001**
(Aronov, Boris) *see* **Discrete and computational geometry, 2004j:00031**
(Baader, Franz) *see* **Handbook: Description logic, 2004e:68001**
(Baldwin, John T.) *see* **Workshop: Logic, Language, Informations and Computation**
(Barcucci, E.) *see* **Random generation of combinatorial objects and bijective combinatorics**
(Bar-Yam, Yaneer) *see* **Unifying themes in complex systems, 2004i:00015** *and* **2004j:00027**
(Basu, Saugata) *see* **Discrete and computational geometry, 2004j:00031**
(van Benthem, Johan) *see* **Special Issue: Connecting the different faces of information**
(Bhargava, Hemant K.) *see* **Computational modeling and problem solving in the networked world, 2004b:90006**
(Biedl, Therese C.) *see* **Conference: Computational Geometry**
(Bjørner, Dines) *see* **Logics of formal specification languages**
(Blackledge, Jonathan M.) *see* **Image processing: mathematical methods and applications, 2004j:94002**
Boldini, Pascal (*with* Bourdeau, Michel) Avant-propos: la théorie constructive des types. [Foreword [Special issue on constructive type theory]]
Bourdeau, Michel *see* **Boldini, Pascal**
(Brauer, Wilfried) *see* **Formal and natural computing, 2004j:00032**
(Buchberger, Bruno) *see* **Mathematical knowledge management**
(Bunke, Horst) *see* **Hybrid methods in pattern recognition, 2004f:68136**
(Calvanese, Diego) *see* **Handbook: Description logic, 2004e:68001**
(Carlsson, Gunnar) *see* **Algebraic topological methods in computer science**
(Cong, Jason) *see* **Multilevel optimization in VLSICAD, 2004f:90010**
(Copestake, Ann) *see* **Algebras, diagrams and decisions in language, logic and computation, 2004c:03002**
(Del Lungo, Alberto) *see* **Random generation of combinatorial objects and bijective combinatorics**
(Dongarra, Jack J.) *see* **Computational science, 2004j:00012; 2004j:00013** *and* **2004j:00014**
(Durand, Bruno) *see* **Tilings of the plane**
(Ehrig, Hartmut) *see* **Formal and natural computing, 2004j:00032**
(Eppstein, David) *see* **ACM Symposium: Computational Geometry**
(Gascuel, Olivier) *see* **Computational biology, 2004j:92001**
(Gerards, Albertus M. H.) *see* **Integer programming and combinatorial optimization, 2004j:90010**
(Gil, María Ángeles) *see* **Soft methods in probability, statistics and data analysis, 2004a:62013**
(Giusti, M.) *see* **Symposium: Symbolic and Algebraic Computation**
(Gomes, Gracinda M. S.) *see* **Semigroups, algorithms, automata and languages, 2004g:20002**
(Gonnet, Gaston) *see* **Mathematical knowledge management**
(Goodman, Jacob Eli) *see* **Discrete and computational geometry, 2004j:00031**
(Gruska, Jozef) *see* **Logics of formal specification languages**
(Grzegorzewski, Przemysław) *see* **Soft methods in probability, statistics and data analysis, 2004a:62013**
(Haeusler, Edward Hermann) *see* **Workshop: Logic, Language, Informations and Computation**
(Hazewinkel, Michiel) *see* **Mathematical knowledge management**
(Heinz, Ernst A.) *see* **Advances in computer games, 2004j:68162**
(Hellwig, Peter) *see* **Computational linguistics for the new millennium: divergence or synergy?, 2004d:68158**
(van den Herik, H. Jaap) *see* **Advances in computer games, 2004j:68162**
(Hoekstra, Alfons G.) *see* **Computational science, 2004j:00012; 2004j:00013** *and* **2004j:00014**
(Hryniewicz, Olgierd) *see* **Soft methods in probability, statistics and data analysis, 2004a:62013**
(Iida, Hiroyuki) *see* **Advances in computer games, 2004j:68162**
(Jansen, Klaus) *see* **Approximation algorithms**
(Jebelean, Tudor) *see* **Symbolic and numeric algorithms on scientific computing**
(Joswig, Michael) *see* **Algebra, geometry, and software systems, 2004e:00007**
(Kandel, Abraham) *see* **Hybrid methods in pattern recognition, 2004f:68136**
(Kano, Mikio) *see* **Discrete and computational geometry, 2004j:52001**
(Karhumäki, Juhani) *see* **Formal and natural computing, 2004j:00032**
(Kaufmann, Michael) *see* **Drawing graphs, 2004b:05003**
(Khuller, Samir) *see* **Approximation algorithms**
(Kittler, Josef) *see* **Multiple classifier systems, 2004j:62010**
(Klenner, Manfred) *see* **Computational linguistics for the new millennium: divergence or synergy?, 2004d:68158**

(Langer, Ulrich[1]) *see* **Symbolic and numerical scientific computation**, 2004j:00025
(Martín-Vide, Carlos) *see* **Grammars and automata for string processing**, 2004i:00018
(Mastorakis, Nikos E.) *see* **Problems in applied mathematics and computational intelligence**, 2004h:00017
(McGuinness, Deborah L.) *see* **Handbook: Description logic**, 2004e:68001
(Minai, Ali) *see* **Unifying themes in complex systems**, 2004j:00027
(Mitrana, Victor) *see* **Grammars and automata for string processing**, 2004i:00018
(Nardi, Daniele) *see* **Handbook: Description logic**, 2004e:68001
(Negru, Viorel) *see* **Symbolic and numeric algorithms on scientific computing**
(Pach, János) *see* **Discrete and computational geometry**, 2004j:00031
(Pardalos, Panos M.) *see* **Novel approaches to hard discrete optimization**, 2004a:00021 *and* **Handbook: Massive data sets**, 2004b:68001
(Pardo, L. M.) *see* **Symposium: Symbolic and Algebraic Computation**
(Patel-Schneider, Peter F.) *see* **Handbook: Description logic**, 2004e:68001
(Păun, Gheorghe) *see* **Grammars and automata for string processing**, 2004i:00018
(Pin, Jean-Éric) *see* **Semigroups, algorithms, automata and languages**, 2004g:20002
(Pollack, Richard M.) *see* **Discrete and computational geometry**, 2004j:00031
(Popovici, Adriana) *see* **Symbolic and numeric algorithms on scientific computing**
(de Queiroz, Ruy J. G. B.) *see* **Logic for concurrency and synchronisation**, 2004f:03055 *and* **Workshop: Logic, Language, Informations and Computation**
(Resende, Mauricio G. C.) *see* **Handbook: Massive data sets**, 2004b:68001
(Roli, Fabio) *see* **Multiple classifier systems**, 2004j:62010
(van Rooy, Robert) *see* **Special Issue: Connecting the different faces of information**
(Rott, Hans) *see* **Frontiers in belief revision**, 2004b:03007
(Rozenberg, Grzegorz) *see* **Formal and natural computing**, 2004j:00032
(Sagot, Marie-France) *see* **Computational biology**, 2004j:92001
(Salomaa, Arto) *see* **Formal and natural computing**, 2004j:00032
(Schwefel, Hans-Paul) *see* **Advances in computational intelligence**, 2004a:00018
(Sharir, Micha) *see* **Discrete and computational geometry**, 2004j:00031
(Shekhar, Shashi) *see* **Clustering and information retrieval**, 2004j:62005
(Shinnerl, Joseph R.) *see* **Multilevel optimization in VLSICAD**, 2004f:90010
(Silva, Pedro V.) *see* **Semigroups, algorithms, automata and languages**, 2004g:20002
(Sloot, Peter M. A.) *see* **Computational science**, 2004j:00012; 2004j:00013 *and* 2004j:00014
(Takayama, Nobuki) *see* **Algebra, geometry, and software systems**, 2004e:00007
(Tan, C. J. Kenneth) *see* **Computational science**, 2004j:00012; 2004j:00013 *and* 2004j:00014
Terese ★ Term rewriting systems. **2004h:68002**
(Urabe, Masatsugu) *see* **Discrete and computational geometry**, 2004j:52001
(Vermeulen, Kees) *see* **Algebras, diagrams and decisions in language, logic and computation**, 2004c:03002
(Visser, Henriëtte) *see* **Computational linguistics for the new millennium: divergence or synergy?**, 2004d:68158
(Vuillon, Laurent) *see* **Tilings of the plane**
(Wagner, Dorothea) *see* **Drawing graphs**, 2004b:05003
(Wegener, Ingo) *see* **Advances in computational intelligence**, 2004a:00018
(Weinert, Klaus) *see* **Advances in computational intelligence**, 2004a:00018
(Williams, Mary-Anne) *see* **Frontiers in belief revision**, 2004b:03007
(Winkler, Franz) *see* **Symbolic and numerical scientific computation**, 2004j:00025
(Woeginger, Gerhard J.) *see* **Special Issue: Efficient scheduling algorithms**
(Wolkowicz, Henry) *see* **Novel approaches to hard discrete optimization**, 2004a:00021
(Wu, Weili) *see* **Clustering and information retrieval**, 2004j:62005
(Xiong, Hui) *see* **Clustering and information retrieval**, 2004j:62005
(Ye, Nong) *see* **Computational modeling and problem solving in the networked world**, 2004b:90006

Items listed otherwise than by author

ACM Symposium:
Computational Geometry ★ ACM Symposium on Computational Geometry.
Advances in computational intelligence ★ Advances in computational intelligence. **2004a:00018**
Advances in computer games ★ Advances in computer games. **2004j:68162**
Algebra, geometry, and software systems ★ Algebra, geometry, and software systems. **2004e:00007**
Algebraic topological methods in computer science ★ Algebraic topological methods in computer science.
Algebras, diagrams and decisions in language, logic and computation ★ Algebras, diagrams and decisions in language, logic and computation. **2004c:03002**
Amsterdam ★ Computational science—ICCS 2002. Part I. **2004j:00012**
— ★ Computational science—ICCS 2002. Part II. **2004j:00013**
— ★ Computational science—ICCS 2002. Part III. **2004j:00014**
Approximation algorithms ★ Approximation algorithms.
Brasilia ★ 8th Workshop on Logic, Language, Informations and Computation—WoLLIC'2001.
Cambridge ★ Multiple classifier systems. **2004j:62010**
Chandler, AZ ★ Computational modeling and problem solving in the networked world. **2004b:90006**
Clustering and information retrieval ★ Clustering and information retrieval. **2004j:62005**
Coalgebraic methods in computer science ★ Coalgebraic methods in computer science.
Coimbra ★ Semigroups, algorithms, automata and languages. **2004g:20002**
Computational biology ★ Computational biology. **2004j:92001**
Computational linguistics for the new millennium: divergence or synergy? ★ Computational linguistics for the new millennium: divergence or synergy? **2004d:68158**
Computational modeling and problem solving in the networked world ★ Computational modeling and problem solving in the networked world. **2004b:90006**
Computational science ★ Computational science—ICCS 2002. Part I. **2004j:00012**
— ★ Computational science—ICCS 2002. Part II. **2004j:00013**
— ★ Computational science—ICCS 2002. Part III. **2004j:00014**
Conference:
Complex Systems ★ Unifying themes in complex systems. Vol. I. **2004i:00015**
— ★ Unifying themes in complex systems. Vol. II. **2004j:00027**
Conference: (*cont'd.*)
Computational Geometry ★ Thirteenth Canadian Conference on Computational Geometry—CCCG'01.
Discrete Analysis and Operations Research ★ Международная Конференция DAOR'2002. [International Conference DAOR'2002]
INFORMS Computing Society ★ Computational modeling and problem solving in the networked world. **2004b:90006**
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68Mxx Computer system organization

68M07 Mathematical problems of computer architecture

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68M10 Network design and communication [see also 68R10, 90B18]

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Lizarralde, Francisco *see* **García, Ricardo et al.**, **2004b:68009**
Lo, Steven K. C. *see* **Lin, Jen-Chih**, **2004g:68006**
Loh, Yin-Huei *see* **Hara, Takahiro et al.**
Mans, Bernard *see* **Flocchini, Paola et al.**, **2004b:68008**
Mansour, Yishay *see* **Andelman, Nir et al.**, (**2004a:68002**)
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Mao, Weizhen (*with* Nicol, David M.) On k-ary and n-cubes: theory and applications. (English summary) **2004h:68010**
Margara, Luciano (*with* Simon, Janos) Decidable properties of graphs of all-optical networks. (English summary)
Massini, Annalisa All-to-all personalized communication on multistage interconnection networks. (English summary) **2004d:68008**
Mavronicolas, Marios *see* **Koutsoupias, Elias et al.**, **2004i:68006** *and* **Koukopoulos, Dimitrios et al.**, (**2004j:68002**)
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Motegi, Kazuhiro *see* **Altman, Tom et al.**
Muthukrishnan, S. Muthu (*with* Suel, Torsten; Vingralek, Radek) Inferring tree topologies using flow tests. (*see* **2004a:68002**)
Nakano, Koji Linear layout of generalized hypercubes. (English summary) **2004b:68011**
Naor, Joseph *see* **Khanna, Sanjeev et al.**
Narayanan, Lata *see* **Barrière, Lali et al.**, (**2004a:68002**)
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Nicol, David M. *see* **Mao, Weizhen**, **2004h:68010**
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Nishio, Shojiro *see* **Hara, Takahiro et al.**
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— *see also* **Barrière, Lali et al.**, (**2004a:68002**)
Osawa, Shingo *see* **Kikuchi, Yosuke et al.**
Ostrovsky, Rafail *see* **Aiello, William et al.**, (**2004a:68002**)
Pelc, Andrzej *see* **Dessmark, Anders**, **2004m:68004**
Peleg, David *see* **Eilam, Tamar et al.**, **2004b:68007**; **Kutten, Shay et al.**, **2004h:68008** *and* **Korman, Amos et al.**, (**2004j:68020**)
Peng, Qin Ke *see* **Cai, Zhongmin et al.**
Pérennès, Stéphane *see* **Bermond, Jean-Claude et al.**, **2004g:68003** *and* **2004i:68005**
Prasinos, Grigorios *see* **Nikoletseas, Sotiris E. et al.**, **2004g:68007**
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Qiao, Xiang Zhen *see* **Liu, Fang Ai et al.**, **2004c:68009**
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Rajaraman, Rajmohan *see* **Adler, Micah et al.**, **2004g:68002**
Raz, Danny *see* **Khanna, Sanjeev et al.**
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Ren, Yong[2] *see* **Liu, Feng**[1] **et al.**, **2004h:68009**
Rodeh, Yoav *see* **Korman, Amos et al.**, (**2004j:68020**)
Rosén, Adi *see* **Adler, Micah et al.**, **2004g:68002**; (**2004j:68020**) *and* **Aiello, William et al.**, (**2004a:68002**)
Roughgarden, Tim The price of anarchy is independent of the network topology. (English summary) **2004j:68029**
Rovan, Branislav *see* **Královič, Rastislav et al.**, **2004b:68010**
Ružička, Peter *see* **Královič, Rastislav et al.**, **2004b:68010** *and* **2004c:68008**
Santoro, Nicola *see* **Flocchini, Paola et al.**, **2004b:68008**
Scheideler, Christian Models and techniques for communication in dynamic networks. (English summary) **2004m:68008**
Shan, Xiuming *see* **Liu, Feng**[1] **et al.**, **2004h:68009**
Shao, Bin[3] *see* **Harutyunyan, Hovhannes A.**, **2004m:68007**
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Shu, Yan-Tai (*with* Wang, Guang-Hong; Wang, Lei; Yang, Oliver W. W.; Fan, Yong-Jie) Provisioning QoS guarantee by multipath routing and reservation in ad hoc networks. (English summary)
Sibeyn, Jop F. Faster gossiping on butterflies. (English summary)
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Silvestri, Riccardo *see* **Clementi, Andrea E. F. et al.**, **2004d:68006**
Simon, Janos *see* **Margara, Luciano**
Sinha, Bhabani P. *see* **Ghosh, Sasthi C. et al.**
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Spirakis, Paul G. *see* **Chatzigiannakis, Ioannis et al.**, **2004c:68006**; **Nikoletseas, Sotiris E. et al.**, **2004g:68007**; **Koutsoupias, Elias et al.**, **2004i:68006** *and* **Koukopoulos, Dimitrios et al.**, (**2004j:68002**)
Stacho, Ladislav *see* **Mañuch, Ján**, **2004j:68028**
Štefankovič, Daniel *see* **Královič, Rastislav et al.**, **2004b:68010**
Stein, Esti *see* **Ben-Asher, Yosi**, **2004c:68005**
Suel, Torsten *see* **Muthukrishnan, S. Muthu et al.**, (**2004a:68002**)
Sun, Guo Ji *see* **Cai, Zhongmin et al.**
Szeszlér, Dávid *see* **Recski, András**, (**2004j:52001**)
Tan, Jimmy J. M. *see* **Yang, Ming-Chien et al.**, **2004g:68008**
Togni, Olivier *see* **Kchikech, Mustapha**, (**2004k:68004**)
Tripakis, Stavros *see* **Puri, Anuj**
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Tse, Savio S. H. (*with* Lau, Francis C. M.) New bounds for multi-label interval routing. (English summary) **2004k:68015**
Tseng, Yu-Chee *see* **Yang, Ming-Hour et al.**, **2004c:68012**
Unoki, Hiroyuki (*with* Higaki, Hiroaki) 3-dimensional extension of Greedy-FACE-Greedy ad hoc routing protocol. (Japanese. Japanese summary)
Verástegui, Doroteo *see* **García, Ricardo et al.**, **2004b:68009**
Vingralek, Radek *see* **Muthukrishnan, S. Muthu et al.**, (**2004a:68002**)
Vishkin, Uzi *see* **Kutten, Shay et al.**, **2004h:68008**
Vu, Van H. *see* **Ngo, Hung Q.**, (**2004a:68002**)
Wang, Chien-Ming *see* **Fang, Wei-Chen et al.**, **2004e:68005**
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Wang, Guang-Hong *see* **Shu, Yan-Tai et al.**
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Wang, Lei *see* **Shu, Yan-Tai et al.**
Wang, Yufei *see* **Sheng, Li**[1] **et al.**, **2004e:68008**
Wen, Xue *see* **Wang, Lei et al.**
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Xu, Ming *see* **Song, JianPing et al.**
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Yang, Oliver W. W. *see* **Shu, Yan-Tai et al.**
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Yang, Zong Kai *see* **Huang, Jia Qing et al.**
Ye, Wu *see* **Huang, Sheng Ye et al.**
Zaroliagis, Christos *see* **Nikoletseas, Sotiris E. et al.**, **2004g:68007**
Zemmari, Akka *see* **Gavoille, Cyril**, **2004k:68013**
Zhang, Jun *see* **Liu, Feng**[1] **et al.**, **2004h:68009**
Zhang, Lisa *see* **Winkler, Peter M.**, (**2004a:68002**)
Zhang, Mu-Hong *see* **Gu, Jun et al.**, **2004j:68027**
Zhang, Shu Hua[1] *see* **Lau, Francis C. M.**, **2004i:68007**
Zhang, Wen Zhu *see* **Liu, Kai**[3] **et al.**
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Zhu, An *see* **Andelman, Nir et al.**, (**2004a:68002**)
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Arrowsmith, D. K. *see* **Barenco, M.**, **2004k:37015**
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Çam, Hasan Rearrangeability of $(2n-1)$-stage shuffle-exchange networks. (English summary) **2004i:68004**
Cao, Jiannong *see* **Wang, Dajin**
Caragiannis, Ioannis (*with* Ferreira, Afonso Galvao; Kaklamanis, Christos; Pérennès, Stéphane; Rivano, Hervé) Fractional path coloring with applications to WDM networks. (English summary)
Chang, Jou-Ming *see* **Wang, Fu-Hsing et al., 2004j:05121**
Chao, Yi-Ju (*with* Morton, Blaise) A framework for dynamic routing and feedback regulation of packet-switched networks. (English summary) **2004e:90013**
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Chen, Chun-Hua[2] *see* **Hsieh, Sun-Yuan, 2004m:68193**
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Cheng, Eddie (*with* Lipman, Marc J.) On fault-tolerant routing in (n,k)-star graphs. (English summary) **2004d:68111**
Chlebus, Bogdan S. (*with* Gołąb, Karol; Kowalski, Dariusz R.) Broadcasting spanning forests on a multiple-access channel. (English summary) **2004i:68246**
Choo, Hyunseung *see* **Chung, Daewoo et al., 2004i:94002**
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Dourisboure, Yon An additive stretched routing scheme for chordal graphs. (English summary)
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Elsässer, Robert (*with* Lücking, Thomas; Monien, Burkhard) On spectral bounds for the k-partitioning of graphs. (English summary) **2004f:68115**
Emerson, E. Allen (*with* Namjoshi, Kedar S.) On reasoning about rings. (English summary) **2004m:68155**
Erlebach, Thomas *see* **Anand, R. Sai et al.**
Farley, Arthur M. *see* **Fujita, Satoshi, 2004d:68117**
Feigenbaum, Joan *see* **Archer, Aaron et al., 2004k:91011**
Ferreira, Afonso Galvao *see* **Caragiannis, Ioannis et al.**
Ferrer i Cancho, Ramon *see* **Solé, Ricard V. et al., 2004b:90015**
Fleischer, Rudolf (*with* Koga, Hisashi) Balanced scheduling toward loss-free packet queueing and delay fairness. (English summary) **2004m:90060**
Flocchini, Paola (*with* Roncato, Alessandro; Santoro, Nicola) Computing on anonymous networks with sense of direction. (English summary) **2004b:68002**
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Freund, Ari *see* **Bar-Noy, Amotz et al., 2004d:90006**
Frieder, Ophir *see* **Wang, Yu[3] et al., 2004d:68126**
Fujita, Satoshi (*with* Farley, Arthur M.) Sparse hypercube—a minimal k-line broadcast graph. (English summary) **2004d:68117**
Gaber, Iris (*with* Mansour, Yishay) Centralized broadcast in multihop radio networks. (English summary) **2004b:94002**
Gargano, Luisa (*with* Hell, Pavol; Stacho, Ladislav; Vaccaro, Ugo) Spanning trees with bounded number of branch vertices. (English summary)
Godard, Emmanuel (*with* Métivier, Yves) Deducible and equivalent structural knowledges in distributed algorithms. (English summary) **2004m:68277**
Gołąb, Karol *see* **Chlebus, Bogdan S. et al., 2004i:68246**
Goldschmidt, Olivier (*with* Laugier, Alexandre; Olinick, Eli V.) SONET/SDH ring assignment with capacity constraints. (English summary) **2004e:90147**
Griffin, Christopher *see* **Brooks, Richard R. et al.**
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Gu, Jun *see* **Zhou, FengFeng et al.**
(Gupta, Piyush) *see* **Kumar, Panganamala Ramana**
Hall, Alexander *see* **Anand, R. Sai et al.**
Harms, Janelle J. (*with* Hu, Chenjiang) Physical network design to facilitate capacity reallocation. (English summary)
Hart, Thomas E. (*with* Harutyunyan, Hovhannes A.) Improved messy broadcasting in hypercubes and complete bipartite graphs. (English summary) **2004e:68079**
Harutyunyan, Hovhannes A. *see* **Hart, Thomas E., 2004e:68079**
Hassin, Refael (*with* Ravi, Ramamoorthi; Salman, F. Sibel) Approximation algorithms for a capacitated network design problem. (English summary) **2004m:90013**
Hell, Pavol *see* **Comellas, Francesc, 2004j:90021** *and* **Gargano, Luisa et al.**
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Horowitz, Keren (*with* Malkhi, Dahlia) Estimating network size from local information.
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Hsu, Lih-Hsing *see* **Li, Tseng-Kuei et al., 2004d:68120**; **Tsai, Chang-Hsiung et al., 2004f:05096** *and* **Chen, Y-Chuang et al., 2004h:68104**
Hu, Chenjiang *see* **Harms, Janelle J.**
Huang, Huang-Ming (*with* Yang, Chang-Biau; Tseng, Kuo-Tsung) Broadcasting on unidirectional hypercubes and its applications. (English summary) **2004b:94003**
Hwang, Frank K. *see* **Chen, Chiuyuan et al., 2004e:68078**
Iridon, Mihaela (*with* Matula, David W.) A 6-regular torus graph family with applications to cellular and interconnection networks. (English summary) **2004g:68132**
Jain, Kamal (*with* Măndoiu, Ion; Vazirani, Vijay V.; Williamson, David P.) A primal-dual schema based approximation algorithm for the element connectivity problem. (English summary) **2004h:90024**
Jakoby, Andreas *see* **Bläser, Markus et al., 2004m:94080**
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Janssen, Jeannette (*with* MacIsaac, Mark; Schmeisser, Kyle) Channel assignment for digital broadcasting: a bound and an algorithm. (English summary) **2004e:05192**
Jurdziński, Tomasz (*with* Kutyłowski, Mirosław; Zatopiański, Jan) Energy-efficient size approximation of radio networks with no collision detection. (English summary)
Juurlink, Ben (*with* Kolman, Petr; Meyer auf der Heide, Friedhelm; Rieping, Ingo) Optimal broadcast on parallel locality models. (English summary) **2004m:68274**
Kaj, Ingemar ★ Stochastic modeling in broadband communications systems. **2004b:60001**
Kaklamanis, Christos *see* **Caragiannis, Ioannis et al.**
Kalyanasundaram, Bala (*with* Pruhs, Kirk R.; Velauthapillai, Mahendran) Scheduling broadcasts in wireless networks. (English summary) **2004i:90043**
Kang, Li-shan *see* **Zhang, Jian[1]**
Karlin, Anna R. (*with* Kenyon, Claire; Randall, Dana) Dynamic TCP acknowledgment and other stories about $e/(e-1)$. (English summary) **2004e:68120**
Kenyon, Claire *see* **Karlin, Anna R. et al., 2004e:68120**
Kim, Kun Suk *see* **Sahni, Sartaj et al.**
Kirousis, Lefteris M. (*with* Kranakis, Evangelos; Krizanc, Danny; Stamatiou, Yannis C.) Locating information with uncertainty in fully interconnected networks: the case of nondistributed memory. (English summary) **2004g:68030**
Klay, Francis *see* **Rusinowitch, Michaël et al., 2004d:68142**
Koga, Hisashi *see* **Fleischer, Rudolf, 2004m:90060**
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Malkhi, Dahlia *see* **Horowitz, Keren**
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Montoya, Jose M. *see* **Solé, Ricard V. et al., 2004b:90015**
Morton, Blaise *see* **Chao, Yi-Ju, 2004e:90013**
Namjoshi, Kedar S. *see* **Emerson, E. Allen, 2004m:68155**
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Shachnai, Hadas *see* **Attiya, Hagit, 2004m:68278**
(Shen, Xuemin) *see* **Communication networks**
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68M12 Network protocols

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68M14 Distributed systems

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Pérennès, Stéphane *see* **Bermond, Jean-Claude et al.**, **2004f:05128**
Peters, James F. *see* **Skowron, Andrzej et al.**, **2004i:68218**
Pomello, Lucia *see* **Bernardinello, Luca et al.**, **2004c:68091**
Proietti, Guido *see* **Nardelli, Enrico et al.**, **2004a:68116**
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Srimani, Pradip K. *see* **Hedetniemi, Sandra M. et al.**, **2004i:05121**
Stepaniuk, Jarosław *see* **Skowron, Andrzej et al.**, **2004i:68218**
Tajima, Naka *see* **Manabe, Yoshifumi**, **2004j:68189**
Teneketzis, Demosthenis *see* **Debouk, Rami et al.**, **2004e:93060**
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Whittier, David *see* **Ural, Hasan**, **2004g:93101**
Widmayer, Peter *see* **Nardelli, Enrico et al.**, **2004a:68116** *and* **Schlude, Konrad et al.**, **2004m:68012**
Winkowski, Józef An algebraic characterization of independence of Petri net processes. (English summary) **2004i:68173**
Yung, Moti *see* **Mayer, Alain et al.**, **2004g:68191**
Zavattaro, Gianluigi *see* **Bonsangue, Marcello M. et al.**, **2004a:68104**
Zemmari, Akka *see* **Métivier, Yves et al.**, **2004e:68121**
Zou, Peng *see* **Dou, Wen et al.**

68M15 Reliability, testing and fault tolerance [see also 94C12]

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Mosteig, Edward *see* **Dinwoodie, I. H., 2004m:62056**
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Ružička, Peter *see* **Flocchini, Paola et al., 2004m:68191**
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Tangui, Lenaik *see* **Baldoni, Roberto et al., 2004m:68009**
Teneketzis, Demosthenis *see* **Debouk, Rami et al., 2004e:93060** *and* **Contant, Olivier et al., 2004m:93083**
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68M20 Performance evaluation; queueing; scheduling [see also 60K25, 90Bxx]

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Epstein, Leah *see* **Chrobak, Marek et al.**
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Imreh, Csanád *see* **Chrobak, Marek et al.**
Jang, Ju-wook *see* **Rim, Hwakyung et al., 2004f:68006**
Jansen, Klaus *see* **Fishkin, Aleksei V. et al.**
Jędrzejowicz, Piotr *see* **Czarnowski, Ireneusz et al., 2004i:68015**
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Korst, Jan *see* **Aerts, Joep et al., 2004j:68035**
Kotov, Vladimir *see* **Girlich, Eberhard et al., 2004m:68015** *and* **Cheng, T. C. Edwin et al.**
Kovalev, M. M. *see* **Girlich, Eberhard et al., 2004m:68015**
Kowalski, Dariusz R. *see* **Chlebus, Bogdan S., 2004j:68037**
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Monien, Burkhard *see* **Lücking, Thomas et al.**
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Noga, John *see* **Chrobak, Marek et al.**
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Pruhs, Kirk R. *see* **Kalyanasundaram, Bala, 2004k:68021**
Ran, Long Bo *see* **Liu, Yun Sheng et al.**
Ratajczak, Ewa *see* **Czarnowski, Ireneusz et al., 2004i:68015**
Righter, Rhonda *see* **Liu, Zhen[1], 2004f:68005**
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Robert, Yves *see* **Beaumont, Olivier et al., 2004j:68036**
Rode, Manuel *see* **Lücking, Thomas et al.**
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Skakowski, Aleksander *see* **Czarnowski, Ireneusz et al., 2004i:68015**
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van Stee, Rob *see* **Chrobak, Marek et al.**
Tardos, Éva *see* **Goel, Ashish et al., 2004f:68004**
Tichý, Tomáš *see* **Chrobak, Marek et al.**
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Verhaegh, Wim F. J. *see* **Aerts, Joep et al., 2004j:68035**
Vöcking, Berthold *see* **Sanders, Peter**
Vredeveld, Tjark *see* **Schuurman, Petra, (2004j:90010)**
Wang, Ding Xing *see* **Jin, Zhi Yan**
Wanka, Rolf Any load-balancing regimen for evolving tree computations on circulant graphs is asymptotically optimal. (English summary)
Wierzbowska, Izabela *see* **Czarnowski, Ireneusz et al., 2004i:68015**
Woeginger, Gerhard J. *see* **Chrobak, Marek et al.**
Wong, Prudence W. H. *see* **Chan, Wun-Tat et al., 2004b:68018**
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Baptiste, Philippe (*with* Schieber, Baruch) A note on scheduling tall/small multiprocessor tasks with unit processing time to minimize maximum tardiness. (English summary) **2004d:90025**
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Bender, Michael A. *see* **Bender, Carl M. et al., 2004m:90066**
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Braun, Oliver (*with* Schmidt, Günter Joachim) Parallel processor scheduling with limited number of preemptions. (English summary) **2004i:90033**
Brecht, Tim *see* **Edmonds, Jeff et al., 2004k:68186**
Brehob, Mark (*with* Enbody, Richard; Torng, Eric; Wagner, Stephen K.) On-line restricted caching. (English summary) **2004j:68024**
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Errata: (*cont'd.*)
Correction: "Concurrent operations can be parallelized in scheduling multiprocessor job shop" [J. Sched. **5** (2002), no. 3, 227–245] by N. N. Vakhaniya and E. V. Shchepin. **2004i:90062b**
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68Nxx Software

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68N15 Programming languages

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Hennessy, Matthew *see* **Riely, James**
Hirschkoff, Daniel *see* **Röckl, Christine**
(Huisman, Marieke) *see* **Formal methods for smart cards**
Jacquet, Jean-Marie *see* **Brogi, Antonio**, **2004a:68105**
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Josset, François-Xavier *see* **Caseau, Yves et al.** *and* **Errata: "CLAIRE: Combining sets, search and rules to better express algorithms"**
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68N17 Logic programming

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Fanizzi, Nicola *see* **Esposito, Floriana et al., 2004i:68025**
Felty, Amy P. *see* **Appel, Andrew W.**
Ferilli, Stefano *see* **Esposito, Floriana et al., 2004i:68025**
(Fernández, Antonio J.) *see* **Wallace, Mark G. et al.**
Fink, Michael *see* **Eiter, Thomas et al., 2004e:68012** *and* **2004f:68010**
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Hemer, David *see* **Hayes, Ian et al., 2004i:68027** *and* **Colvin, Robert et al., (2004k:68006)**
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Khachoyan, L. O. *see* **Nigiyan, S. A. et al.**
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Pfeifer, Gerald *see* **Eiter, Thomas et al.**, **2004h:68017** *and* **2004i:68023**
Pietrzak, Paweł *see* **Drabent, Włodzimierz et al.**
Pimentel, Ernesto *see* **Hodas, Joshua S. et al.**, (**2004j:68008**) *and* **Molina-Bravo, J. M.**
Polakow, Jeffrey *see* **Hodas, Joshua S. et al.**, (**2004j:68008**)
Polleres, Axel *see* **Eiter, Thomas et al.**, **2004h:68017**
Proietti, Maurizio *see* **Fioravanti, Fabio et al.**, (**2004k:68006**)
Przymusinski, Teodor C. *see* **Brass, Stefan et al.**, **2004m:68017**
Ribeiro, Cristina *see* **Carravilla, M. A. et al.**, **2004i:68022**
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Rosenblueth, David A. Chain programs for writing deterministic metainterpreters. (English summary) **2004f:68012**
Rossi, Sabina *see* **Le Charlier, Baudouin et al.**, **2004e:68013**; **Bossi, Annalisa et al.**, **2004f:68007** *and* **2004f:68008**
Ruggieri, Salvatore *see* **Mesnard, Fred**, **2004e:68014**; **Pedreschi, Dino et al.**, **2004f:68011** *and* **2004h:68020**
Sabbatini, Giuliana *see* **Eiter, Thomas et al.**, **2004e:68012** *and* **2004f:68010**
Sakama, Chiaki (*with* Inoue, Katsumi[2]) An abductive framework for computing knowledge base updates. (English summary) **2004i:68029**
Sánchez-Hernández, Jaime *see* **López-Fraguas, Francisco J.**, **2004j:68044**
Şaradici, Mona *see* **Nechita, Elena**
Schachte, Peter Precise goal-independent abstract interpretation of constraint logic programs. (English summary) **2004c:68018**
Schaub, Torsten (*with* Wang, Kewen) A semantic framework for preference handling in answer set programming. (English summary) **2004i:68030**
— *see also* **Konczak, Kathrin et al.**, **2004m:68020**
Schimpf, Joachim *see* **Wallace, Mark G. et al.**
Scozzari, Francesca *see* **Amato, Gianluca**, (**2004k:68006**)
Semeraro, Giovanni *see* **Esposito, Floriana et al.**, **2004i:68025**
Shen, Kish *see* **Wallace, Mark G. et al.**
Shen, Samuel S. P. *see* **Shen, Yi-Dong et al.**, **2004g:68015**
Shen, Yi-Dong (*with* You, Jia-Huai; Yuan, Li-Yan; Shen, Samuel S. P.; Yang, Qiang) A dynamic approach to characterizing termination of general logic programs. (English summary) **2004g:68015**
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Simons, Patrik (*with* Niemelä, Ilkka; Soininen, Timo) Extending and implementing the stable model semantics. (English summary) **2004b:68022**
Smaus, Jan-Georg *see* **Pedreschi, Dino et al.**, **2004f:68011**
Soininen, Timo *see* **Simons, Patrik et al.**, **2004b:68022**
Spoto, Fausto *see* **Levi, Giorgio**, **2004b:68021**
Spyratos, Nicolas *see* **Loyer, Yann**
Srinivasan, Ashwin (*with* King, Ross D.; Bain, Michael E.) An empirical study of the use of relevance information in inductive logic programming. (English summary)
Štěpánek, Petr *see* **Hrůza, Jan**
Stoilova, Lubomira *see* **Hodas, Joshua S. et al.**, (**2004j:68008**)
Straccia, Umberto *see* **Loyer, Yann**, (**2004j:68015**)
Strooper, Paul *see* **Hayes, Ian et al.**, **2004i:68027** *and* **Colvin, Robert et al.**, (**2004k:68006**)
Syrjänen, Tommi *see* **Brewka, Gerhard et al.**, (**2004j:68015**)
Tompits, Hans *see* **Eiter, Thomas et al.**, **2004e:68012** *and* **2004f:68010**
Toni, Francesca *see* **Afrati, Foto et al.**, **2004i:68020**
Toumani, Farouk *see* **Hacid, Mohand-Saïd et al.**, **2004i:68026**
Tronçon, Remko *see* **Vanhoof, Wim et al.**, (**2004k:68006**)
Truszczyński, Mirosław Computing large and small stable models. (English summary) **2004f:68013**
— *see also* **Lonc, Zbigniew**, **2004k:68025**
Turner, Hudson Strong equivalence made easy: nested expressions and weight constraints. (English summary) **2004i:68031**
Van Hentenryck, Pascal *see* **Le Charlier, Baudouin et al.**, **2004e:68013**
Vanhoof, Wim (*with* Tronçon, Remko; Bruynooghe, Maurice) A fixed point semantics for logic programs extended with cuts. (English summary) (*see* **2004k:68006**)
Van Nieuwenborgh, Davy (*with* Vermeir, Dirk) Preferred answer sets for ordered logic programs. (English summary) (*see* **2004j:68015**)
Vermeir, Dirk *see* **Van Nieuwenborgh, Davy**, (**2004j:68015**)
Vermeir, Timothy An inconsistency-adaptive proof procedure for logic programing. (English summary) **2004h:68021**
Volpe, Paolo *see* **Comini, Marco et al.**, **2004m:68018**
Wadge, William W. *see* **Rondogiannis, Panos**, (**2004j:68015**)
Wallace, Mark G. (*with* Schimpf, Joachim; Shen, Kish; Harvey, Warwick) On benchmarking constraint logic programming platforms. Response to: "A comparative study of eight constraint programming languages over the Boolean and finite domains" [Constraints **5** (2000), no. 3, 275–301] by A. J. Fernández and P. M. Hill. (English summary)
Wang, Kewen *see* **Schaub, Torsten**, **2004i:68030**
Whang, Kyu-Young *see* **Kang, Ji-Hoon et al.**, **2004j:68043**
Yang, Qiang *see* **Shen, Yi-Dong et al.**, **2004g:68015**
You, Jia-Huai *see* **Shen, Yi-Dong et al.**, **2004g:68015**
Yuan, Li-Yan *see* **Shen, Yi-Dong et al.**, **2004g:68015**
Zaffanella, Enea (*with* Hill, Patricia M.; Bagnara, Roberto) Decomposing non-redundant sharing by complementation. (English summary) **2004f:68014**
— *see also* **Hill, Patricia M. et al.**, **2004m:68019**

Items with secondary classifications in 68N17

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Afrati, Foto *see* **Guessarian, Irène et al.**, **2004f:68095**
Alpuente, María (*with* Falaschi, Moreno; Julián Iranzo, Pascual; Vidal, Germán) Uniform lazy narrowing. (English summary) **2004b:68023**
Andronikos, Theodore *see* **Guessarian, Irène et al.**, **2004f:68095**
Appel, Andrew W. (*with* Felty, Amy P.) Polymorphic lemmas and definitions in λProlog and Twelf. (English summary)
Arimura, Hiroki *see* **Sakamoto, Hiroshi[2] et al.**, **2004b:68077**
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Brim, Luboš (*with* Křetínský, Mojmír; Jacquet, Jean-Marie; Gilbert, David Roger) Modelling multi-agent systems as synchronous concurrent constraint processes. (English summary) **2004d:68098**
Bruni, Renato Approximating minimal unsatisfiable subformulae by means of adaptive core search. (English summary) **2004i:68195**
Cayrol, Claudette (*with* Doutre, Sylvie; Mengin, Jerome) On decision problems related to the preferred semantics for argumentation frameworks. (English summary) **2004i:68203**
Chao, Yuyan *see* **He, Lifeng et al.**, **2004g:68150**
Corbett, Dan ★ Reasoning and unification over conceptual graphs. **2004m:68224**
De Groeve, Michael *see* **Kramer, Stefan et al.**
Degtyarëv, Anatoliĭ Ivanovich (*with* Nieuwenhuis, Robert; Voronkov, Andrei) Stratified resolution. (English summary) **2004g:68149**
Dekhtyar, Mikhail I. (*with* Dikovskiĭ, A. Ya.; Valiev, M. K.) Complexity of multi-agent systems behavior. (English summary) (*see* **2004j:68015**)
Dikovskiĭ, A. Ya. *see* **Dekhtyar, Mikhail I. et al.**, (**2004j:68015**)
Doutre, Sylvie *see* **Cayrol, Claudette et al.**, **2004i:68203**
Dovier, Agostino (*with* Piazza, Carla; Pontelli, Enrico) Disunification in $ACI1$ theories. (English summary) **2004m:03039**
Esteban, Juan Luis (*with* Torán, Jacobo) A combinatorial characterization of treelike resolution space. (English summary) **2004g:03098**
Falaschi, Moreno *see* **Alpuente, María et al.**, **2004b:68023**
Felty, Amy P. *see* **Appel, Andrew W.**
Ferrari, Mauro[1] (*with* Miglioli, Pierangelo; Ornaghi, Mario) On uniformly constructive and semiconstructive formal systems. (English summary) **2004j:03080**
(Flesca, Sergio) *see* **Logics in artificial intelligence**, **2004j:68015**
Foustoucos, Eugénie *see* **Guessarian, Irène et al.**, **2004f:68095**
Franco, John (*with* Swaminathan, Ram) On good algorithms for determining unsatisfiability of propositional formulas. (English summary) **2004h:68117**
— *see also* **Renesse issue on satisfiability**
Friedman, Marc *see* **Millstein, Todd et al.**, **2004d:68030**
Gelfond, Michael *see* **Balduccini, Marcello**, **2004i:68211**
Gennari, Rosella *see* **Bistarelli, S. et al.**, **2004c:68124**
Gérard, Sylvain *see* **Li, Chu-Min**, **2004k:68146**
Gilbert, David Roger *see* **Brim, Luboš et al.**, **2004d:68098**
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Givan, Robert (*with* McAllester, David) Polynomial-time computation via local inference relations. (English summary) **2004m:68083**
Godoy, Guillem *see* **Bofill, Miquel**
(Greco, Sergio) *see* **Logics in artificial intelligence, 2004j:68015**
Grieser, Gunter *see* **Lange, Steffen et al., 2004d:68060**
Grohe, Martin (*with* Schweikardt, Nicole) Comparing the succinctness of monadic query languages over finite trees. (English summary) **2004m:03130**
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Guessarian, Irène (*with* Foustoucos, Eugénie; Andronikos, Theodore; Afrati, Foto) On temporal logic versus datalog. (English summary) **2004f:68095**
Halevy, Alon *see* **Millstein, Todd et al., 2004d:68030**
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Hébrard, Jean-Jacques (*with* Zanuttini, Bruno) An efficient algorithm for Horn description. (English summary) **2004g:03022**
Heljanko, Keijo (*with* Niemelä, Ilkka) Bounded LTL model checking with stable models. (English summary) **2004i:68137**
Hernández, Manuel (*with* Rosenblueth, David A.) Disjunctive partial deduction of a right-to-left string-matching algorithm. (English summary) **2004f:68181**
Hirata, Kouichi *see* **Sakamoto, Hiroshi[2] et al., 2004b:68077**
Hosobe, Hiroshi (*with* Matsuoka, Satoshi) A foundation of solution methods for constraint hierarchies. (English summary) **2004b:68142**
(Ianni, Giovambattista) *see* **Logics in artificial intelligence, 2004j:68015**
Ibaraki, Toshihide (*with* Kogan, Alexander[1]; Makino, Kazuhisa) Inferring minimal functional dependencies in Horn and q-Horn theories. (English summary) **2004h:68030**
Itoh, Hidenori *see* **He, Lifeng et al., 2004g:68150**
Jacquet, Jean-Marie *see* **Brim, Luboš et al., 2004d:68098**
Jantke, Klaus P. *see* **Lange, Steffen et al., 2004d:68060**
Jenčušová, Eva (*with* Jirásek, Jozef) Formal methods of analysis of security protocols. (English summary)
Jirásek, Jozef *see* **Jenčušová, Eva**
Julián Iranzo, Pascual *see* **Alpuente, María et al., 2004b:68023**
Kamide, Norihiro Sequent calculi for intuitionistic linear logic with strong negation. (English summary) **2004a:03071**
Kawaguchi, Yuuichi A common structure of logical and algebraic algorithms. (English summary) (*see* **2004k:03009**)
Klíma, Ondřej Unification modulo associativity and idempotency is NP-complete. (English summary)
Kogan, Alexander[1] *see* **Ibaraki, Toshihide et al., 2004h:68030**
Kondo, Michiro A note on interval-valued fuzzy subalgebras/ideals in BCK-algebras. (English summary) **2004c:06023**
Kramer, Stefan (*with* Widmer, Gerhard; Pfahringer, Bernhard; De Groeve, Michael) Prediction of ordinal classes using regression trees. (English summary)
Křetínský, Mojmír *see* **Brim, Luboš et al., 2004d:68098**
Lange, Steffen (*with* Grieser, Gunter; Jantke, Klaus P.) Advanced elementary formal systems. (English summary) **2004d:68060**
(Leone, Nicola) *see* **Logics in artificial intelligence, 2004j:68015**
Li, Chu-Min Equivalent literal propagation in the DLL procedure. (English summary) **2004i:68193**
— (*with* Gérard, Sylvain) On the limit of branching rules for hard random unsatisfiable 3-SAT. (English summary) **2004k:68146**
Lorente Tallada, Juan M. Minimization of logical formulas. (Spanish. English summary) (*see* **2004d:03008**)
Lynce, Inês (*with* Marques-Silva, João P.) An overview of backtrack search satisfiability algorithms. (English summary) **2004d:68141**
(van Maaren, Hans) *see* **Renesse issue on satisfiability**
Makino, Kazuhisa *see* **Ibaraki, Toshihide et al., 2004h:68030**
Maratea, Marco *see* **Giunchiglia, Enrico et al., (2004j:68015)**
Marques-Silva, João P. *see* **Lynce, Inês, 2004d:68141**
Martini, Simone *see* **Guerrini, Stefano et al., 2004b:68025**
Masini, Andrea *see* **Guerrini, Stefano et al., 2004b:68025**
Matsuoka, Satoshi *see* **Hosobe, Hiroshi, 2004b:68142**
McAllester, David *see* **Givan, Robert, 2004m:68083**
Mengin, Jerome *see* **Cayrol, Claudette et al., 2004i:68203**
Miglioli, Pierangelo *see* **Ferrari, Mauro[1] et al., 2004j:03080**
Millstein, Todd (*with* Halevy, Alon; Friedman, Marc) Query containment for data integration systems. (English summary) **2004d:68030**
Momigliano, Alberto (*with* Pfenning, Frank) Higher-order pattern complement and the strict λ-calculus. (English summary) **2004g:68018**
Muñoz, Susana *see* **Guadarrama, S. et al.**
Nguyen, Linh Anh The modal query language MDatalog. (English summary) **2004f:68028**
Niemelä, Ilkka *see* **Heljanko, Keijo, 2004i:68137**
Nieuwenhuis, Robert *see* **Degtyarëv, Anatolïi Ivanovich et al., 2004g:68149**
Nock, Richard Complexity in the case against accuracy estimation. (English summary) **2004e:68088**
Ong, Kayliang *see* **Arni, Faiz et al.**
Ornaghi, Mario *see* **Ferrari, Mauro[1] et al., 2004j:03080**
Otten, Jens (*with* Bibel, Wolfgang) leanCoP: lean connection-based theorem proving. (English summary)
Ottosson, Greger *see* **Thorsteinsson, Erlendur S., 2004a:90075**
Pfahringer, Bernhard *see* **Kramer, Stefan et al.**
Pfenning, Frank *see* **Momigliano, Alberto, 2004g:68018**
Piazza, Carla *see* **Dovier, Agostino et al., 2004m:03039**
Pichler, Reinhard Explicit versus implicit representations of subsets of the Herbrand universe. (English summary) **2004c:68123**
Pontelli, Enrico *see* **Dovier, Agostino et al., 2004m:03039**
Prakken, Henry Modelling defeasibility in law: logic or procedure? (English summary) **2004i:03056**
Rigotti, Christophe *see* **Abdennadher, Slim, 2004m:68209**
Rosenblueth, David A. *see* **Hernández, Manuel, 2004f:68181**
Rossi, Francesca *see* **Bistarelli, S. et al., 2004c:68124**
Sakamoto, Hiroshi[2] (*with* Hirata, Kouichi; Arimura, Hiroki) Learning elementary formal systems with queries. (English summary) **2004b:68077**
Schweikardt, Nicole *see* **Grohe, Martin, 2004m:03130**
(Speckenmeyer, Ewald) *see* **Renesse issue on satisfiability**
Stachniak, Zbigniew Non-clausal reasoning with definite theories. (English summary) **2004f:68138**
Straßburger, Lutz MELL in the calculus of structures. (English summary) **2004m:03220**
Swaminathan, Ram *see* **Franco, John, 2004h:68117**
Szeider, Stefan Homomorphisms of conjunctive normal forms. (English summary) **2004i:03021**
Tacchella, Armando *see* **Giunchiglia, Enrico et al., (2004j:68015)**
Teniente, Ernest (*with* Urpí, Toni) On the abductive or deductive nature of database schema validation and update processing problems. (English summary)
Thiemann, Peter *see* **Wadler, Philip, 2004j:68041**
Thorsteinsson, Erlendur S. (*with* Ottosson, Greger) Linear relaxations and reduced-cost based propagation of continuous variable subscripts. (English summary) **2004a:90075**
Tinelli, Cesare A DPLL-based calculus for ground satisfiability modulo theories. (English summary) (*see* **2004j:68015**)
Torán, Jacobo *see* **Esteban, Juan Luis, 2004g:03098**
Tsur, Shalom *see* **Arni, Faiz et al.**
Úbeda Rives, José Pedro A formal approach to logical consequence. (Spanish. English summary) **2004h:03117**
Urpí, Toni *see* **Teniente, Ernest**
Valiev, M. K. *see* **Dekhtyar, Mikhail I. et al., (2004j:68015)**
Vaucheret, C. *see* **Guadarrama, S. et al.**
Vidal, Germán *see* **Alpuente, María et al., 2004b:68023**
Voronkov, Andrei *see* **Degtyarëv, Anatolïi Ivanovich et al., 2004g:68149**
Wadler, Philip (*with* Thiemann, Peter) The marriage of effects and monads. (English summary) **2004j:68041**
Wang, Haixun *see* **Arni, Faiz et al.**
Widmer, Gerhard *see* **Kramer, Stefan et al.**
Zaniolo, Carlo *see* **Arni, Faiz et al.**
Zanuttini, Bruno *see* **Hébrard, Jean-Jacques, 2004g:03022**

Items listed otherwise than by author

Cosenza ★ Logics in artificial intelligence. **2004j:68015**
Lecture Notes in Computer Science ★ Logics in artificial intelligence. **2004j:68015**
Logics in artificial intelligence ★ Logics in artificial intelligence. **2004j:68015**
Renesse ★ The Renesse issue on satisfiability.
Renesse issue on satisfiability ★ The Renesse issue on satisfiability.
Special Issue:
Program development ★ Special issue on 'Program development'.
Programming with answer sets ★ Special issue on programming with answer sets.
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68N18 Functional programming and lambda calculus [see also 03B40]

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Alpuente, María (*with* Comini, Marco; Escobar, Santiago; Falaschi, Moreno; Lucas, Salvador) Abstract diagnosis of functional programs. (English summary) (*see* **2004k:68006**)
— (*with* Falaschi, Moreno; Julián Iranzo, Pascual; Vidal, Germán) Uniform lazy narrowing. (English summary) **2004b:68023**
— (*with* Falaschi, Moreno; Moreno, Ginés; Vidal, Germán) Rules + strategies for transforming lazy functional logic programs. (English summary) **2004j:68045**
Altenkirch, Thorsten (*with* McBride, Conor) Generic programming within dependently typed programming. (English summary) (*see* **2004c:68004**)
Amadio, Roberto M. Max-plus quasi-interpretations. (English summary) (*see* **2004j:68021**)
Banerjee, Anindya[2] (*with* Jensen, Thomas P.) Modular control-flow analysis with rank 2 intersection types. (English summary) **2004d:68014**
Barthe, Gilles (*with* Frade, M. J.; Giménez, Eduardo; Pinto, Luís; Uustalu, Tarmo) Type-based termination of recursive definitions. (English summary) **2004k:68027**
Bauer, Andrej (*with* Escardó, Martín Hötzel; Simpson, Alex) Comparing functional paradigms for exact real-number computation. (English summary)
Berghofer, Stefan Program extraction in simply-typed higher order logic. (English summary)
Bono, Viviana (*with* Tiuryn, Jerzy) Products and polymorphic subtypes. (English summary) **2004i:68032**
Boute, Raymond T. Concrete generic functionals. Principles, design and applications. (English summary) (*see* **2004c:68004**)
Bucciarelli, Antonio (*with* Piperno, Adolfo; Salvo, Ivano) Intersection types and λ-definability. (English summary) **2004c:68019**
Calcagno, Cristiano (*with* Moggi, Eugenio; Sheard, T.) Closed types for a safe imperative MetaML. (English summary) **2004f:68015**
Carlsson, Magnus *see* **Moran, Andrew et al., 2004c:68021**
Clarke, Dave (*with* Löh, Andres) Generic H∀SKELL, specifically. (English summary) (*see* **2004c:68004**)
Comini, Marco *see* **Alpuente, María et al., (2004k:68006)**
Coquand, Thierry (*with* Pollack, Randy; Takeyama, Makoto) A logical framework with dependently typed records. (*see* **2004j:68021**)
Csörnyei, Zoltán (*with* Kovács, Lehel; Légrádi, Gábor) Purely functional programming and the object-oriented inheritance. (English summary)

Damian, Daniel (*with* Danvy, Olivier) Syntactic accidents in program analysis: on the impact of the CPS transformation. (English summary) **2004g:68016**
— (*with* Danvy, Olivier) CPS transformation of flow information. II. Administrative reductions. (English summary) **2004g:68020**
Damiani, Ferruccio A conjunctive type system for useless-code elimination. (English summary) **2004c:68020**
Danvy, Olivier *see* **Damian, Daniel**, **2004g:68016**; **2004g:68020** *and* **Ager, Mads Sig et al.**
Escardó, Martín Hötzel *see* **Bauer, Andrej et al.**
Escobar, Santiago *see* **Alpuente, María et al.**, (**2004k:68006**)
Falaschi, Moreno *see* **Alpuente, María et al.**, **2004b:68023**; **2004j:68045** *and* (**2004k:68006**)
Fernández, Maribel *see* **Sinot, François-Régis et al.**
Ferrari, Gianluigi (*with* Moggi, Eugenio; Pugliese, Rosario) MetaKlaim: a type safe multi-stage language for global computing. (English summary)
Filliâtre, Jean-Christophe Verification of non-functional programs using interpretations in type theory. (English summary) **2004h:68022**
Fischbach, Adam (*with* Hannan, John) Specification and correctness of lambda lifting. (English summary) **2004f:68016**
Frade, M. J. *see* **Barthe, Gilles et al.**, **2004k:68027**
Fujita, Ken-Etsu An injective CPS-translation for the extensional λ-calculus. (English summary) **2004d:68015**
— Continuation semantics and CPS-translation of $\lambda\mu$-calculus. (English summary) **2004b:68024**
Gallesio, Erick (*with* Serrano, Manuel) Programming graphical user interfaces with Scheme. (English summary)
Gapeyev, Vladimir (*with* Levin, Michael Y.; Pierce, Benjamin C.) Recursive subtyping revealed. (English summary) **2004g:68017**
Gava, Frédéric Formal proofs of functional BSP programs. (English summary) **2004i:68033**
Giménez, Eduardo *see* **Barthe, Gilles et al.**, **2004k:68027**
Goldberg, Mayer A construction of one-point bases in extended lambda calculi. (English summary) **2004k:68028**
Guerrini, Stefano (*with* Martini, Simone; Masini, Andrea) Coherence for sharing proof-nets. (English summary) **2004b:68025**
Gutiérrez, Francisco (*with* Ruiz Jiménez, Blas C.) A cut-free sequent calculus for pure type systems verifying the structural rules of Gentzen/Kleene. (English summary) (*see* **2004k:68006**)
Hannan, John *see* **Fischbach, Adam**, **2004f:68016**
Hosoya, Haruo (*with* Pierce, Benjamin C.) Regular expression pattern matching for XML. (English summary)
Hu, Zhenjiang *see* **Yokoyama, Tetsuo et al.**, **2004k:68029**
Huang, Wen Ji Polymorphic type for a kind of recursive functions. (Chinese. English and Chinese summaries)
Jensen, Thomas P. *see* **Banerjee, Anindya**^{2}. **2004d:68014**
Johann, Patricia Short cut fusion is correct. (English summary) **2004f:68017**
Julián Iranzo, Pascual *see* **Alpuente, María et al.**, **2004b:68023**
Kahrs, Stefan Well-going programs can be typed. (English summary) (*see* **2004j:68021**)
Kakutani, Yoshihiko Duality between call-by-name recursion and call-by-value iteration. (English summary) **2004m:68022**
Kamareddine, Fairouz (*with* Qiao, Haiyan) Formalizing strong normalization proofs of explicit substitution calculi in ALF. (English summary) **2004f:68018**
Konečný, Michal Functional in-place update with layered datatype sharing. (English summary) (*see* **2004j:68021**)
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68N20 Compilers and interpreters

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68N25 Operating systems

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68N30 Mathematical aspects of software engineering (specification, verification, metrics, requirements, etc.)

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Lee, Chong Hyung *see* **Park, Dong Ho**
Lehmann, Uwe *see* **Walther, Andrea, (2004g:93010)**
Letichevskiĭ, A. A., Jr. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al.**
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Magniez, Frédéric *see* **Kiwi, Marcos A. et al., 2004a:68111**
Marchette, David J. *see* **Wierman, John C., 2004m:60188**
Park, Dong Ho (*with* Lee, Chong Hyung) Markovian imperfect software debugging model and its performance measures. (English summary)
Salari, Kambiz *see* **Knupp, Patrick, 2004e:65002**
Santha, Miklos *see* **Kiwi, Marcos A. et al., 2004a:68111**
Shatnawi, Omar *see* **Kapur, P. K. et al.**
Trivedi, Kishor S. *see* **Vaidyanathan, Kalyanaraman et al.**
Vaidyanathan, Kalyanaraman (*with* Harper, Richard E.; Hunter, Steven W.; Trivedi, Kishor S.) Analysis of software rejuvenation in cluster systems using stochastic reward nets. (English summary)
Volkov, V. A. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al.**
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68Pxx Theory of data

68P01 General

Needham, Roger M. The Clifford Paterson lecture, 2002. Computer security? (English summary)

Items listed otherwise than by author

Lectures:
Paterson, Clifford, Computer security *see* **Needham, Roger M.**

68P05 Data structures

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Albert, Michael H. (*with* Atkinson, M. D.) Sorting with a forklift. (English summary)

Aluru, Srinivas *see* **Ko, Pang**
Arafat, Shymaa M. *see* **Belal, Ahmed A. et al.**
Arge, Lars External memory data structures. (English summary) (*see* **2004b:68001**)
— The buffer tree: a technique for designing batched external data structures. (English summary) **2004m:68023**
— (*with* Vitter, Jeffrey Scott) Optimal external memory interval management. (English summary) **2004i:68035**
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Arikawa, Setsuo *see* **Inenaga, Shunsuke et al.**
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Atkinson, M. D. *see* **Albert, Michael H.**
Ayala-Rincón, Mauricio (*with* Conejo, Paulo D.) A linear time lower bound on McCreight and general updating algorithms for suffix trees. (English summary) **2004f:68023**
Bansal, S. S. (*with* Sreekanth, S.; Gupta, Phalguni) M-heap: a modified heap data structure. (English summary) **2004f:68024**
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Belal, Ahmed A. (*with* Selim, Mohamed S.; Arafat, Shymaa M.) Building optimal alphabetic trees recursively. (English summary)
Bender, Michael A. (*with* Cole, Richard; Raman, Rajeev) Exponential structures for efficient cache-oblivious algorithms. (English summary)
Blandford, Daniel K. (*with* Blelloch, Guy E.; Kash, Ian A.) Compact representations of separable graphs. (English summary) (*see* **2004a:68002**)
Blelloch, Guy E. (*with* Maggs, Bruce M.; Maverick Woo, Shan Leung) Space-efficient finger search on degree-balanced search trees. (English summary) (*see* **2004a:68002**)
— *see also* **Blandford, Daniel K. et al.**, (**2004a:68002**)
Blum, Avrim (*with* Chawla, Shuchi; Kalai, Adam) Static optimality and dynamic search-optimality in lists and trees. (English summary) **2004e:68016**
Bodon, Ferenc (*with* Rónyai, Lajos) Trie: an alternative data structure for data mining algorithms. (English summary)
Brodal, Gerth Stølting (*with* Fagerberg, Rolf) Lower bounds for external memory dictionaries. (English summary) (*see* **2004a:68002**)
— (*with* Lagogiannis, George; Makris, Christos H.; Tsakalidis, Athanasios K.; Tsichlas, Kostas) Optimal finger search trees in the pointer machine. (English summary) **2004m:68024**
Burkhardt, Stefan (*with* Kärkkäinen, Juha) Fast lightweight suffix array construction and checking. (English summary)
Carvalho, Paulo Cézar Pinto *see* **da Fonseca, Guilherme D. et al.**, **2004j:68046**
Charikar, Moses (*with* Indyk, Piotr; Panigrahy, Rina) New algorithms for subset query, partial match, orthogonal range searching, and related problems. (English summary)
— (*with* Chen, Kevin C.; Farach-Colton, Martin) Finding frequent items in data streams. (English summary) **2004m:68025**
Chawla, Shuchi *see* **Blum, Avrim et al.**, **2004e:68016**
Chen, Kevin C. *see* **Charikar, Moses et al.**, **2004m:68025**
Chowdhury, Rezaul Alam *see* **Rahman, M. Ziaur et al.**, **2004h:68025**
Cleary, Sean (*with* Taback, Jennifer) Bounding restricted rotation distance. (English summary) **2004h:68024**
Clifford, Raphaël (*with* Sergot, Marek) Distributed and paged suffix trees for large genetic databases. (English summary)
Cole, Richard *see* **Bender, Michael A. et al.**
Conejo, Paulo D. *see* **Ayala-Rincón, Mauricio**, **2004f:68023**
Datar, Mayur (*with* Gionis, Aristides; Indyk, Piotr; Motwani, Rajeev) Maintaining stream statistics over sliding windows. (English summary) **2004e:68017**
Dekking, F. Michel (*with* Meester, L. E.) An almost sure result for path lengths in binary search trees. (English summary) **2004c:68024**
Duch, Amalia (*with* Martínez, Conrado) On the average performance of orthogonal range search in multidimensional data structures. (English summary)
Durand, Marianne *see* **Taylor, Stephen Eugene**, **2004d:68023**
Durgan, Bruce K. Compact searchable static binary trees. (English summary) **2004i:68036**
Elmasry, Amr How bad a pairing heap might be. (English summary) (*see* **2004h:00019**)
— A new proof for the sequential access theorem for splay trees. (English summary) (*see* **2004h:00019**)
— On the sequential access theorem and deque conjecture for splay trees. (English summary) **2004m:68026**
Fagerberg, Rolf *see* **Brodal, Gerth Stølting**, (**2004a:68002**)
Fakotakis, Nikos D. *see* **Sgarbas, Kyriakos N. et al.**, **2004d:68022**
Farach-Colton, Martín *see* **Charikar, Moses et al.**, **2004m:68025**
Fiat, Amos (*with* Kaplan, Haim) Making data structures confluently persistent. (English summary) **2004m:68027**
de Figueiredo, Celina M. H. *see* **da Fonseca, Guilherme D. et al.**, **2004j:68046**
Fix, James D. The set-associative cache performance of search trees. (English summary) (*see* **2004a:68002**)
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Franceschini, Gianni (*with* Grossi, Roberto) Implicit dictionaries supporting searches and amortized updates in $O(\log n \log\log n)$ time. (English summary) (*see* **2004a:68002**)
Gionis, Aristides *see* **Datar, Mayur et al.**, **2004e:68017**
Grossi, Roberto *see* **Franceschini, Gianni**, (**2004a:68002**)
Gupta, Phalguni *see* **Bansal, S. S. et al.**, **2004f:68024**
Hagerup, Torben (*with* Raman, Rajeev) An efficient quasidictionary. (English summary)
Harvey, Nicholas J. A. (*with* Munro, J. Ian) Deterministic SkipNet. (English summary) **2004m:68028**
Hoel, Erik G. (*with* Samet, Hanan) Data-parallel polygonization. (English summary)
Hoshino, Hiromasa *see* **Inenaga, Shunsuke et al.**
Indyk, Piotr *see* **Datar, Mayur et al.**, **2004e:68017** *and* **Charikar, Moses et al.**
Inenaga, Shunsuke (*with* Takeda, Masayuki; Shinohara, Ayumi; Hoshino, Hiromasa; Arikawa, Setsuo) The minimum DAWG for all suffixes of a string and its applications. (English summary)
— Bidirectional construction of suffix trees. (English summary) **2004e:68018**
Ionescu, Clara Fringed-quadtrees: a new kind of data structure. (English summary)
Irving, Robert W. (*with* Love, Lorna) The suffix binary search tree and suffix AVL tree. (English summary) **2004i:68037**
Joy, Kenneth I. (*with* Legakis, Justin; MacCracken, Ron) Data structures for multiresolution representation of unstructured meshes. (English summary)
Jung, Haejae (*with* Sahni, Sartaj) Supernode binary search trees. (English summary) **2004f:68025**
Kalai, Adam *see* **Blum, Avrim et al.**, **2004e:68016**
Kaplan, Haim (*with* Verbin, Elad) Efficient data structures and a new randomized approach for sorting signed permutations by reversals. (English summary)
— *see also* **Fiat, Amos**, **2004m:68027**
Kärkkäinen, Juha *see* **Burkhardt, Stefan**
Kash, Ian A. *see* **Blandford, Daniel K. et al.**, (**2004a:68002**)
Katajainen, Jyrki (*with* Vitale, Fabio) Navigation piles with applications to sorting, priority queues, and priority deques. (English summary)
Kaykobad, M. *see* **Rahman, M. Ziaur et al.**, **2004h:68025**
Kim, Dong Kyue (*with* Sim, Jeong Seop; Park, Heejin; Park, Kunsoo) Linear-time construction of suffix arrays (extended abstract). (English summary)
— (*with* Kim, Yoo Ah; Park, Kunsoo) Generalizations of suffix arrays to multi-dimensional matrices. (English summary) **2004d:68020**
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Kim, Yoo Ah *see* **Kim, Dong Kyue et al.**, **2004d:68020** *and* **2004d:68021**
Ko, Pang (*with* Aluru, Srinivas) Space efficient linear time construction of suffix arrays. (English summary)
Kokkinakis, George K. *see* **Sgarbas, Kyriakos N. et al.**, **2004d:68022**
Lagogiannis, George *see* **Brodal, Gerth Stølting et al.**, **2004m:68024**
Lam, Tak Wah (*with* Sadakane, Kunihiko; Sung, Wing-Kin; Yiu, Siu Ming) A space and time efficient algorithm for constructing compressed suffix arrays. (English summary)
Larsen, Kim S. Relaxed red-black trees with group updates. (English summary) **2004e:68019**
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Legakis, Justin *see* **Joy, Kenneth I. et al.**
Love, Lorna *see* **Irving, Robert W.**, **2004i:68037**
Lucas, Joan M. A direct algorithm for restricted rotation distance. (English summary)
Maaß, Moritz G. Linear bidirectional on-line construction of affix trees. (English summary) **2004b:68031**
MacCracken, Ron *see* **Joy, Kenneth I. et al.**
Maggs, Bruce M. *see* **Blelloch, Guy E. et al.**, (**2004a:68002**)
Mahmoud, Hosam M. One-sided variations on binary search trees. (English summary) **2004k:68031**
Makris, Christos H. (*with* Tsakalidis, Athanasios K.; Tsichlas, Kostas) Reflected min-max heaps. (English summary) **2004c:68025**
— *see also* **Brodal, Gerth Stølting et al.**, **2004m:68024**
Martínez, Conrado *see* **Duch, Amalia**
Maverick Woo, Shan Leung *see* **Blelloch, Guy E. et al.**, (**2004a:68002**)
Meester, L. E. *see* **Dekking, F. Michel**, **2004c:68024**
Motwani, Rajeev *see* **Datar, Mayur et al.**, **2004e:68017**
Munro, J. Ian *see* **Harvey, Nicholas J. A.**, **2004m:68028**
Nakamura, Ryozo *see* **Sun, Ningping et al.**, (**2004h:00019**) *and* (**2004h:00019**)
Östlin, Anna (*with* Pagh, Rasmus) One-probe search. (English summary)
Pagh, Rasmus (*with* Rodler, Flemming Friche) Cuckoo hashing. (English summary) **2004m:68029**
— *see also* **Östlin, Anna**
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Panholzer, Alois (*with* Prodinger, Helmut) Spanning tree size in random binary search trees. (English summary) **2004k:68032**
Panigrahy, Rina *see* **Charikar, Moses et al.**
Park, Heejin *see* **Kim, Dong Kyue et al.**
Park, Kunsoo *see* **Kim, Dong Kyue et al.**, **2004d:68020** *and* **2004d:68021**
Procopiuc, Octavian *see* **Agarwal, Pankaj K. et al.**
Prodinger, Helmut *see* **Panholzer, Alois**, **2004k:68032**
Rahman, M. Ziaur (*with* Chowdhury, Rezaul Alam; Kaykobad, M.) Improvements in double ended priority queues. (English summary) **2004h:68025**
Raman, Rajeev *see* **Bender, Michael A. et al.** *and* **Hagerup, Torben**
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Reznik, Yu. A. On the space-time efficiency of digital trees with adaptive multidigit branching. (Russian. English and Ukrainian summaries) **2004m:68030**
Rodler, Flemming Friche *see* **Pagh, Rasmus**, **2004m:68029**
Rónyai, Lajos *see* **Bodon, Ferenc**
Roura, Salvador A new method for balancing binary search trees. (English summary)
Sadakane, Kunihiko New text indexing functionalities of the compressed suffix arrays. (English summary) **2004g:68024**
— *see also* **Lam, Tak Wah et al.**
Sahni, Sartaj *see* **Jung, Haejae**, **2004f:68025**
Samet, Hanan *see* **Hoel, Erik G.**
Selim, Mohamed S. *see* **Belal, Ahmed A. et al.**
Sergot, Marek *see* **Clifford, Raphaël**
Sgarbas, Kyriakos N. (*with* Fakotakis, Nikos D.; Kokkinakis, George K.) Optimal insertion in deterministic DAWGs. (English summary) **2004d:68022**
Shah, Gauri *see* **Aspnes, James**, (**2004a:68002**)
Shibuya, Tetsuo[2] Generalization of a suffix tree for RNA structural pattern matching. (English summary) **2004k:68033**
Shinohara, Ayumi *see* **Inenaga, Shunsuke et al.**
Sim, Jeong Seop *see* **Kim, Dong Kyue et al.**
Soisalon-Soininen, Eljas (*with* Widmayer, Peter) Amortized complexity of bulk updates in AVL-trees. (English summary)
Sreekanth, S. *see* **Bansal, S. S. et al.**, **2004f:68024**
Sun, Ningping (*with* Nakamura, Ryozo; Sun, Wenling; Zhu, Hongbing; Tada, Akio) A new analysis of the AVL tree insertion algorithm. (English summary) (*see* **2004h:00019**)

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Sun, Wenling *see* **Sun, Ningping et al.**, (**2004h:00019**) *and* (**2004h:00019**)
Sung, Wing-Kin *see* **Lam, Tak Wah et al.**
Taback, Jennifer *see* **Cleary, Sean**, **2004h:68024**
Tada, Akio *see* **Sun, Ningping et al.**, (**2004h:00019**) *and* (**2004h:00019**)
Takaoka, Tadao Theory of 2-3 heaps. (English summary) **2004j:68047**
Takeda, Masayuki *see* **Inenaga, Shunsuke et al.**
Taylor, Stephen Eugene (*with* Durand, Marianne) Emerging behavior as binary search trees are symmetrically updated. (English summary) **2004d:68023**
Tóth, Csaba D. Binary space partitions for line segments with a limited number of directions. (English summary) **2004b:68032**
Tsakalidis, Athanasios K. *see* **Makris, Christos H. et al.**, **2004c:68025** *and* **Brodal, Gerth Stølting et al.**, **2004m:68024**
Tsichlas, Kostas *see* **Makris, Christos H. et al.**, **2004c:68025** *and* **Brodal, Gerth Stølting et al.**, **2004m:68024**
Verbin, Elad *see* **Kaplan, Haim**
Vitale, Fabio *see* **Katajainen, Jyrki**
Vitter, Jeffrey Scott *see* **Arge, Lars**, **2004i:68035** *and* **Agarwal, Pankaj K. et al.**
Widmayer, Peter *see* **Soisalon-Soininen, Eljas**
Yiu, Siu Ming *see* **Lam, Tak Wah et al.**
Zhu, Hongbing *see* **Sun, Ningping et al.**, (**2004h:00019**)

Items with secondary classifications in 68P05

Albert, Michael H. (*with* Atkinson, M. D.) Sorting with a forklift. (English summary) **2004j:05011**
Aoe, Jun-ichi *see* **Morita, Kazuhiro et al.**
Apostolico, Alberto *see* **Na, Joong Chae et al.**, **2004d:68034**
Arya, Sunil (*with* Fu, Ho-Yam Addy) Expected-case complexity of approximate nearest neighbor searching. (English summary) **2004h:68140**
Assayag, Gérard *see* **Dubnov, Shlomo**, (**2004a:00014**)
Atkinson, M. D. *see* **Albert, Michael H.**, **2004j:05011**
Atlam, El-Sayed *see* **Morita, Kazuhiro et al.**
Auber, D. (*with* Delest, Maylis) A clustering algorithm for huge trees. (English summary) **2004e:60020**
Baeza-Yates, Ricardo (*with* Moffat, Alistair; Navarro, Gonzalo) Searching large text collections. (English summary) (*see* **2004b:68001**)
Barrera, Javiera (*with* Paroissin, Christian) On the distribution of the search cost for the move-to-front rule with random weights. (English summary) **2004k:68034**
Baswana, Surender (*with* Hariharan, Ramesh; Sen, Sandeep) Maintaining all-pairs approximate shortest paths under deletion of edges. (English summary) (*see* **2004a:68002**)
Beier, René (*with* Sanders, Peter; Sivadasan, Naveen) Energy optimal routing in radio networks using geometric data structures. (English summary)
Berman, Piotr (*with* Karpinski, Marek; Nekrich, Yakov) Approximating Huffman codes in parallel. (English summary)
Blelloch, Guy E. (*with* Cheng, Perry; Gibbons, Phillip B.) Scalable room synchronizations. (English summary) **2004i:68154**
Boitsov, L. M. Using signature hashing for approximate string matching. (English summary) **2004f:68177**
Bóna, Miklós A survey of stack-sorting disciplines. (English summary) **2004j:05012**
Buhrman, Harry (*with* Miltersen, Peter Bro; Radhakrishnan, Jaikumar; Venkatesh, Srinivasan) Are bitvectors optimal? (English summary) **2004a:68014**
Castro, D. (*with* Giusti, M.; Heintz, J.; Matera, G.; Pardo, L. M.) The hardness of polynomial equation solving. (English summary) **2004k:68056**
Chang, Ye-In (*with* Liao, Cheng-Huang; Chen, Hue-Ling) NA-trees: a dynamic index for spatial data. (English summary) **2004a:68020**
Charikar, Moses (*with* Chen, Kevin C.; Farach-Colton, Martín) Finding frequent items in data streams. (English summary)
Chen, Danny Z. (*with* Daescu, Ovidiu; Hu, Xiaobo; Xu, Jinhui) Finding an optimal path without growing the tree. (English summary) **2004m:68088**
Chen, Gen-Huey *see* **Chen, Wei-Mei**, **2004a:68171**
Chen, Hue-Ling *see* **Chang, Ye-In et al.**, **2004a:68020**
Chen, Kevin C. *see* **Charikar, Moses et al.**
Chen, Wei-Mei (*with* Chen, Gen-Huey) Divide-and-conquer recurrences associated with generalized heaps, optimal merge, and related structures. (English summary) **2004a:68171**
Cheng, Perry *see* **Blelloch, Guy E. et al.**, **2004i:68154**
Chern, Hua-Huai (*with* Hwang, Hsien-Kuei) Partial match queries in random quadtrees. (English summary) **2004g:68206**
Chomicki, Jan (*with* Haesevoets, Sofie; Kuijpers, Bart; Revesz, Peter) Classes of spatio-temporal objects and their closure properties. (English summary) **2004i:68040**
Cieliebak, Mark (*with* Erlebach, Thomas; Lipták, Zsuzsanna; Stoye, Jens; Welzl, Emo) Algorithmic complexity of protein identification: combinatorics of weighted strings. (English summary) **2004m:92039**
Cohen, Edith (*with* Halperin, Eran; Kaplan, Haim; Zwick, Uri) Reachability and distance queries via 2-hop labels. (English summary) **2004g:68207**
Cole, Richard (*with* Lewenstein, Moshe) Multidimensional matching and fast search in suffix trees. (English summary) (*see* **2004a:68002**)
Crescenzi, Pierluigi (*with* Del Lungo, Alberto; Grossi, Roberto; Lodi, Elena; Pagli, Linda; Rossi, Gianluca) Text sparsification via local maxima. (English summary) **2004f:68179**
Czumaj, Artur (*with* Ergün, Funda; Fortnow, Lance; Magen, Avner; Newman, Ilan; Rubinfeld, Ronitt; Sohler, Christian) Sublinear-time approximation of Euclidean minimum spanning tree. (English summary) (*see* **2004a:68002**)
Daciuk, Jan (*with* van Noord, Gertjan) Finite automata for compact representation of tuple dictionaries. (English summary) **2004m:68131**
Daescu, Ovidiu *see* **Chen, Danny Z. et al.**, **2004m:68088**
Dal Palú, A. (*with* Pontelli, Enrico; Ranjan, D.) An optimal algorithm for finding NCA on pure pointer machines. (English summary)
Dekking, F. Michel (*with* van der Wal, Peter) Uniform distribution modulo one and binary search trees. (English and French summaries) **2004m:11118**
Delest, Maylis *see* **Auber, D.**, **2004e:60020**
Del Lungo, Alberto *see* **Crescenzi, Pierluigi et al.**, **2004f:68179**
De Poli, Giovanni (*with* Rocchesso, Davide) Computational models for musical sound sources. (English summary) (*see* **2004a:00014**)
Derisavi, Salem (*with* Hermanns, Holger; Sanders, William H.) Optimal state-space lumping in Markov chains. (English summary) **2004g:68055**
Devillers, Olivier (*with* Dujmović, Vida; Everett, Hazel; Goaoc, Xavier; Lazard, Sylvain; Na, Hyeon-Suk; Petitjean, Sylvain) The expected number of 3D visibility events is linear. (English summary) **2004m:68256**
Devroye, Luc (*with* Neininger, Ralph) Random suffix search trees. (English summary) **2004i:68253**
Dubnov, Shlomo (*with* Assayag, Gérard) Universal prediction applied to stylistic music generation. (English summary) (*see* **2004a:00014**)
Dujmović, Vida *see* **Devillers, Olivier et al.**, **2004m:68256**
Ekambaram, Anand *see* **Montagne, Euripides**, **2004m:65061**
Elmasry, Amr Priority queues, pairing, and adaptive sorting. (English summary)
El-Sedy, Esam S. *see* **Rakha, Medhat A.**, **2004k:33038**
Eppstein, David Dynamic generators of topologically embedded graphs. (English summary) (*see* **2004a:68002**)
Ergün, Funda *see* **Czumaj, Artur et al.**, (**2004a:68002**)
Erlebach, Thomas *see* **Cieliebak, Mark et al.**, **2004m:92039**
Everett, Hazel *see* **Devillers, Olivier et al.**, **2004m:68256**
Farach-Colton, Martín *see* **Charikar, Moses et al.**
Ferragina, Paolo (*with* Koudas, Nick; Muthukrishnan, S. Muthu; Srivastava, Divesh) Two-dimensional substring indexing. (English summary) **2004i:68041**
Fortnow, Lance *see* **Czumaj, Artur et al.**, (**2004a:68002**)
Fu, Ho-Yam Addy *see* **Arya, Sunil**, **2004h:68140**
Fuketa, Masao *see* **Morita, Kazuhiro et al.**
Galluccio, Anna (*with* Proietti, Guido) Polynomial time algorithms for 2-edge-connectivity augmentation problems. (English summary) **2004d:68118**
Gavrilova, Marina L. (*with* Rokne, Jon) Collision detection optimization in a multi-particle system. (English summary)
Gerbessiotis, Alexandros V. (*with* Siniolakis, Constantinos J.) Architecture independent parallel selection with applications to parallel priority queues. (English summary) **2004c:68157**
Giavitto, Jean-Louis (*with* Michel, Olivier) Data structure as topological spaces. (English summary) (*see* **2004j:68023**)
Gibbons, Phillip B. *see* **Blelloch, Guy E. et al.**, **2004i:68154**
Giorgetti, Alain An asymptotic study for path reversal. (English summary) **2004g:68208**
Giusti, M. *see* **Castro, D. et al.**, **2004k:68056**
Goaoc, Xavier *see* **Devillers, Olivier et al.**, **2004m:68256**
Goodrich, Michael T. (*with* Tamassia, Roberto) Simplified analyses of randomized algorithms for searching, sorting, and selection. (English summary) **2004a:68015**
Grossi, Roberto *see* **Crescenzi, Pierluigi et al.**, **2004f:68179**
Gudmundsson, Joachim (*with* Haverkort, Herman; Park, Sang-Min; Shin, Chan-Su; Wolff, Alexander) Facility location and the geometric minimum-diameter spanning tree. (English summary) **2004m:90068**
Haesevoets, Sofie *see* **Chomicki, Jan et al.**, **2004i:68040**
Halperin, Eran *see* **Cohen, Edith et al.**, **2004g:68207**
Hariharan, Ramesh *see* **Baswana, Surender et al.**, (**2004a:68002**)
Haverkort, Herman *see* **Gudmundsson, Joachim et al.**, **2004m:90068**
Heintz, J. *see* **Castro, D. et al.**, **2004k:68056**
Hermanns, Holger *see* **Derisavi, Salem et al.**, **2004g:68055**
Hon, Wing-Kai (*with* Sadakane, Kunihiko) Space-economical algorithms for finding maximal unique matches. (English summary)
Hu, Xiaobo *see* **Chen, Danny Z. et al.**, **2004m:68088**
Hutchinson, David Alexander (*with* Maheshwari, Anil; Zeh, Norbert) An external memory data structure for shortest path queries. (English summary) **2004a:68016**
Hwang, Hsien-Kuei *see* **Chern, Hua-Huai**, **2004g:68206**
Iliopoulos, Costas S. *see* **Na, Joong Chae et al.**, **2004d:68034**
Itoh, Yoshiaki (*with* Mahmoud, Hosam M.) One-sided variations on interval trees. (English summary) **2004e:05053**
Ivrissimtzis, Ioannis (*with* Rössl, Christian; Seidel, Hans-Peter) Tree-based data structures for triangle mesh connectivity encoding. (*see* **2004j:65006**)
Kaplan, Haim *see* **Cohen, Edith et al.**, **2004g:68207**
Karpinski, Marek *see* **Berman, Piotr et al.**
Kim, Kun Suk *see* **Sahni, Sartaj et al.**
King, Valerie (*with* Sagert, Garry) A fully dynamic algorithm for maintaining the transitive closure. (English summary) **2004c:68109**
Kirkpatrick, David (*with* Speckmann, Bettina) Separation sensitive kinetic separation structures for convex polygons. (English summary) (*see* **2004j:52001**)
Koltun, Vladlen Segment intersection searching problems in general settings. (English summary) **2004f:68167**
Koudas, Nick *see* **Ferragina, Paolo et al.**, **2004i:68041**
Kuijpers, Bart *see* **Chomicki, Jan et al.**, **2004i:68040**
Langerman, Stefan The complexity of halfspace area queries. (English summary) **2004i:68229**
Lazard, Sylvain *see* **Devillers, Olivier et al.**, **2004m:68256**
Lewenstein, Moshe *see* **Cole, Richard**, (**2004a:68002**)
Liao, Cheng-Huang *see* **Chang, Ye-In et al.**, **2004a:68020**
Lipták, Zsuzsanna *see* **Cieliebak, Mark et al.**, **2004m:92039**
Lodi, Elena *see* **Crescenzi, Pierluigi et al.**, **2004f:68179**
Lu, Haibin *see* **Sahni, Sartaj et al.**
Magen, Avner *see* **Czumaj, Artur et al.**, (**2004a:68002**)
Maheshwari, Anil *see* **Hutchinson, David Alexander et al.**, **2004a:68016**
Mahmoud, Hosam M. *see* **Itoh, Yoshiaki**, **2004e:05053**
Mäkinen, Veli Compact suffix array—a space-efficient full-text index. (English summary) **2004k:68178**
Matera, G. *see* **Castro, D. et al.**, **2004k:68056**

Matias, Yossi (*with* Vitter, Jeffrey Scott; Ni, Wen-Chun) Dynamic generation of discrete random variates. (English summary) **2004d:68178**
Mauri, Giancarlo (*with* Pavesi, Giulio) Pattern discovery in RNA secondary structure using affix trees. (English summary)
— *see also* **Pavesi, Giulio et al.**
Mehlhorn, Kurt (*with* Schäfer, Guido) Implementation of $O(nm \log n)$ weighted matchings in general graphs: the power of data structures. (English summary) **2004d:68190**
Meyer, Ulrich[2] Average-case complexity of single-source shortest-paths algorithms: lower and upper bounds. (English summary) **2004h:68105**
Michel, Olivier *see* **Giavitto, Jean-Louis**, (**2004j:68023**)
Miltersen, Peter Bro *see* **Buhrman, Harry et al.**, **2004a:68014**
Moffat, Alistair *see* **Baeza-Yates, Ricardo et al.**, (**2004b:68001**)
Montagne, Euripides (*with* Ekambaram, Anand) An optimal storage format for sparse matrices. (English summary) **2004m:65061**
Morita, Kazuhiro (*with* Atlam, El-Sayed; Fuketa, Masao; Tsuda, Kazuhiko; Aoe, Jun-ichi) Fast and compact updating algorithms of a double-array structure. (English summary)
Mortensen, Christian Worm Fully-dynamic two dimensional orthogonal range and the line segment intersection reporting in logarithmic time. (English summary) (*see* **2004a:68002**)
Murtagh, Fionn Clustering in massive data sets. (English summary) (*see* **2004b:68001**)
Muthukrishnan, S. Muthu (*with* Şahinalp, Süleyman Cenk) Simple and practical sequence nearest neighbors with block operations. (English summary)
— *see also* **Ferragina, Paolo et al.**, **2004i:68041**
Na, Hyeon-Suk *see* **Devillers, Olivier et al.**, **2004m:68256**
Na, Joong Chae (*with* Apostolico, Alberto; Iliopoulos, Costas S.; Park, Kunsoo) Truncated suffix trees and their application to data compression. (English summary) **2004d:68034**
Navarro, Gonzalo *see* **Baeza-Yates, Ricardo et al.**, (**2004b:68001**)
Neininger, Ralph (*with* Rüschendorf, Ludger) A general limit theorem for recursive algorithms and combinatorial structures. (English summary) **2004m:60046**
— *see also* **Devroye, Luc**, **2004i:68253**
Nekrich, Yakov *see* **Berman, Piotr et al.**
Newman, Ilan *see* **Czumaj, Artur et al.**, (**2004a:68002**)
Ni, Wen-Chun *see* **Matias, Yossi et al.**, **2004d:68178**
Nikolopoulos, Stavros D. (*with* Palios, Leonidas) On the recognition of P_4-comparability graphs. (English summary)
Nivasch, Gabriel Cycle detection using a stack. (English summary) **2004m:68272**
van Noord, Gertjan *see* **Daciuk, Jan**, **2004m:68131**
Pagli, Linda *see* **Crescenzi, Pierluigi et al.**, **2004f:68179**
Palios, Leonidas *see* **Nikolopoulos, Stavros D.**
Pardo, L. M. *see* **Castro, D. et al.**, **2004k:68056**
Park, Kunsoo *see* **Na, Joong Chae et al.**, **2004d:68034**
Park, Sang-Min *see* **Gudmundsson, Joachim et al.**, **2004m:90068**
Paroissin, Christian *see* **Barrera, Javiera**, **2004k:68034**
Pavesi, Giulio (*with* Mauri, Giancarlo; Pesole, Graziano) An algorithm for finding conserved secondary structure motifs in unaligned RNA sequences. (English summary)
— *see also* **Mauri, Giancarlo**
Pesole, Graziano *see* **Pavesi, Giulio et al.**
Petitjean, Sylvain *see* **Devillers, Olivier et al.**, **2004m:68256**
Pontelli, Enrico *see* **Dal Palú, A. et al.**
Poon, Chung Keung Dynamic orthogonal range queries in OLAP. (English summary) **2004c:68028**
Prodinger, Helmut Words, permutations, and representations of numbers. (English summary) **2004a:68080**
Proietti, Guido *see* **Galluccio, Anna**, **2004d:68118**
Radhakrishnan, Jaikumar *see* **Buhrman, Harry et al.**, **2004a:68014**
Rajasekaran, Sanguthevar Sorting and selection on parallel disk models. (English summary) (*see* **2004b:68001**)
Rakha, Medhat A. (*with* El-Sedy, Esam S.) Application of basic hypergeometric series. (English summary) **2004k:33038**
Ranjan, D. *see* **Dal Palú, A. et al.**
Revesz, Peter *see* **Chomicki, Jan et al.**, **2004i:68040**
Rocchesso, Davide *see* **De Poli, Giovanni**, (**2004a:00014**)
Roditty, Liam A faster and simpler fully dynamic transitive closure. (English summary) (*see* **2004a:68002**)
Rokne, Jon *see* **Gavrilova, Marina L.**
Rossi, Gianluca *see* **Crescenzi, Pierluigi et al.**, **2004f:68179**
Rössl, Christian *see* **Ivrissimtzis, Ioannis et al.**, (**2004j:65006**)
Rubinfeld, Ronitt *see* **Czumaj, Artur et al.**, (**2004a:68002**)
Rüschendorf, Ludger *see* **Neininger, Ralph**, **2004m:60046**
Sadakane, Kunihiko *see* **Hon, Wing-Kai**
Sagert, Garry *see* **King, Valerie**, **2004c:68109**
Şahinalp, Süleyman Cenk *see* **Muthukrishnan, S. Muthu**
Sahni, Sartaj (*with* Kim, Kun Suk; Lu, Haibin) Data structures for one-dimensional packet classification using most-specific-rule matching. (English summary)
Sanders, Peter *see* **Beier, René et al.**
Sanders, William H. *see* **Derisavi, Salem et al.**, **2004g:68055**
Schäfer, Guido *see* **Mehlhorn, Kurt**, **2004d:68190**
Seidel, Hans-Peter *see* **Ivrissimtzis, Ioannis et al.**, (**2004j:65006**)
Sen, Pranab (*with* Venkatesh, Srinivasan) Lower bounds in the quantum cell probe model. (English summary)
Sen, Sandeep *see* **Baswana, Surender et al.**, (**2004a:68002**)
Shin, Chan-Su *see* **Gudmundsson, Joachim et al.**, **2004m:90068**
Siniolakis, Constantinos J. *see* **Gerbessiotis, Alexandros V.**, **2004c:68157**
Sivadasan, Naveen *see* **Beier, René et al.**
Sohler, Christian *see* **Czumaj, Artur et al.**, (**2004a:68002**)
Speckmann, Bettina *see* **Kirkpatrick, David**, (**2004j:52001**)
Srivastava, Divesh *see* **Ferragina, Paolo et al.**, **2004i:68041**
Stoye, Jens *see* **Cieliebak, Mark et al.**, **2004m:92039**
Tamassia, Roberto *see* **Goodrich, Michael T.**, **2004a:68015**
Thorup, Mikkel On AC^0 implementations of fusion trees and atomic heaps. (English summary) (*see* **2004a:68002**)
Tóth, Csaba D. A note on binary plane partitions. (English summary) **2004e:52018**
Tsuda, Kazuhiko *see* **Morita, Kazuhiro et al.**
Venkatesh, Srinivasan *see* **Buhrman, Harry et al.**, **2004a:68014** *and* **Sen, Pranab**
Vitter, Jeffrey Scott *see* **Matias, Yossi et al.**, **2004d:68178**
van der Wal, Peter *see* **Dekking, F. Michel**, **2004m:11118**
Welzl, Emo *see* **Cieliebak, Mark et al.**, **2004m:92039**
Wolff, Alexander *see* **Gudmundsson, Joachim et al.**, **2004m:90068**
Xu, Jinhui *see* **Chen, Danny Z. et al.**, **2004m:68088**
Zeh, Norbert *see* **Hutchinson, David Alexander et al.**, **2004a:68016**
Zwick, Uri *see* **Cohen, Edith et al.**, **2004g:68207**

68P10 Searching and sorting

Ansari, A. Q. *see* **Dutta, Ashit Kumar**
Aoe, Jun-ichi *see* **Morita, Kazuhiro et al.**
Atlam, El-Sayed *see* **Morita, Kazuhiro et al.**
Baeza-Yates, Ricardo (*with* Moffat, Alistair; Navarro, Gonzalo) Searching large text collections. (English summary) (*see* **2004b:68001**)
Barrera, Javiera (*with* Paroissin, Christian) On the distribution of the search cost for the move-to-front rule with random weights. (English summary) **2004k:68034**
Bein, Wolfgang W. (*with* Larmore, Lawrence L.; Latifi, Shahram; Sudborough, I. Hal) Block sorting is hard. (English summary) **2004f:68026**
Buhrman, Harry (*with* Miltersen, Peter Bro; Radhakrishnan, Jaikumar; Venkatesh, Srinivasan) Are bitvectors optimal? (English summary) **2004a:68014**
Cantone, D. (*with* Cincotti, Gianluca) QuickHeapsort, an efficient mix of classical sorting algorithms. (English summary) **2004e:68020**
Chen, Jingchao Optimizing stable in-place merging. (English summary) **2004d:68024**
Chen, Yu Ping *see* **Quan, Hui Yun et al.**
Cincotti, Gianluca *see* **Cantone, D.**, **2004e:68020**
Derev'yanchenko, Oleksandr V. (*with* Medvedēv, Mikhaĭlo G.; Gurzhīĭ, Tatyana A.) The use of associative memory in the construction of a model of a search system for the internet. (Ukrainian. English and Ukrainian summaries)
Dutta, Ashit Kumar (*with* Ansari, A. Q.) A method of intuitionistic fuzzy search. (English summary)
Elmasry, Amr Priority queues, pairing, and adaptive sorting. (English summary)
Fuketa, Masao *see* **Morita, Kazuhiro et al.**
Gararch, William (*with* Golub, Evan; Kruskal, Clyde) Constant time parallel sorting: an empirical view. (English summary) **2004j:68048**
Gerbessiotis, Alexandros V. (*with* Siniolakis, Constantinos J.) Randomized selection in $n + C + o(n)$ comparisons. (English summary) **2004h:68026**
— (*with* Siniolakis, Constantinos J.) Probabilistic integer sorting. (English summary) **2004m:68031**
Giaro, Krzysztof On an NP-hard sorting problem. (English summary) **2004i:68039**
Golub, Evan *see* **Gararch, William et al.**, **2004j:68048**
Goodrich, Michael T. (*with* Tamassia, Roberto) Simplified analyses of randomized algorithms for searching, sorting, and selection. (English summary) **2004a:68015**
Gupta, Anupam (*with* Zane, Francis X.) Counting inversions in lists. (English summary) (*see* **2004a:68002**)
Gurzhīĭ, Tatyana A. *see* **Derev'yanchenko, Oleksandr V. et al.**
Han, Yijie Deterministic sorting in $O(n \log\log n)$ time and linear space. (English summary) **2004j:68049**
Hartman, Tzvika A simpler 1.5-approximation algorithm for sorting by transpositions. (English summary)
Hunziker, Markus (*with* Meyer, David A.) Quantum algorithms for highly structured search problems. (English summary) **2004e:68021**
Hutchinson, David Alexander (*with* Maheshwari, Anil; Zeh, Norbert) An external memory data structure for shortest path queries. (English summary) **2004a:68016**
Kannan, Sampath (*with* Khanna, Sanjeev) Selection with monotone comparison costs. (English summary) (*see* **2004a:68002**)
Khanna, Sanjeev *see* **Kannan, Sampath**, (**2004a:68002**)
Krizanc, Danny (*with* Rajasekaran, Sanguthevar) Random sampling: sorting and selection. (English summary) **2004b:68033**
Kruskal, Clyde *see* **Gararch, William et al.**, **2004j:68048**
Kwek, Stephen (*with* Mehlhorn, Kurt) Optimal search for rationals. (English summary) **2004a:68017**
Larmore, Lawrence L. *see* **Bein, Wolfgang W. et al.**, **2004f:68026**
Latifi, Shahram *see* **Bein, Wolfgang W. et al.**, **2004f:68026**
Maheshwari, Anil *see* **Hutchinson, David Alexander et al.**, **2004a:68016**
Mashburn, Brian C. *see* **Starling, A. Gregory**, **2004e:68022**
Medvedēv, Mikhaĭlo G. *see* **Derev'yanchenko, Oleksandr V. et al.**
Mehlhorn, Kurt *see* **Kwek, Stephen**, **2004a:68017**
Merlini, Donatella (*with* Sprugnoli, Renzo; Verri, M. Cecilia) Modified binary searching for static tables. (English summary) **2004g:68025**
Meyer, David A. *see* **Hunziker, Markus**, **2004e:68021**
Miltersen, Peter Bro *see* **Buhrman, Harry et al.**, **2004a:68014**
Moffat, Alistair *see* **Baeza-Yates, Ricardo et al.**, (**2004b:68001**)
Montone, O. *see* **de Santis, Filomena et al.**, **2004k:68035**
Morita, Kazuhiro (*with* Atlam, El-Sayed; Fuketa, Masao; Tsuda, Kazuhiko; Aoe, Jun-ichi) Fast and compact updating algorithms of a double-array structure. (English summary)
Nakamura, Ryozo *see* **Sun, Ningping et al.**
Navarro, Gonzalo *see* **Baeza-Yates, Ricardo et al.**, (**2004b:68001**)
Olariu, Stephan *see* **Wu, Jie[5]**, **2004b:68034**
Pace, N. *see* **de Santis, Filomena et al.**, **2004k:68035**
Paroissin, Christian *see* **Barrera, Javiera**, **2004k:68034**
Quan, Hui Yun (*with* Xiao, Wei; Chen, Yu Ping) A class of new parallel sorting algorithms. (English and Chinese summaries)
Radhakrishnan, Jaikumar *see* **Buhrman, Harry et al.**, **2004a:68014**

Rahman, Naila (*with* Raman, Rajeev) Adapting radix sort to the memory hierarchy. (English summary)
Rajasekaran, Sanguthevar Sorting and selection on parallel disk models. (English summary) (*see* **2004b:68001**)
— *see also* **Krizanc, Danny**, **2004b:68033**
Raman, Rajeev *see* **Rahman, Naila**
Ravikumar, Balasubramanian A fault-tolerant merge sorting algorithm. (English summary)
de Santis, Filomena (*with* Montone, O.; Pace, N.) Algorithms for sorting by reversals. (English summary) **2004k:68035**
Siniolakis, Constantinos J. *see* **Gerbessiotis, Alexandros V.**, **2004h:68026** *and* **2004m:68031**
Sprugnoli, Renzo *see* **Merlini, Donatella et al.**, **2004g:68025**
Starling, A. Gregory (*with* Mashburn, Brian C.) Sorting and Cayley graphs on S_n. (English summary) **2004e:68022**
Sudborough, I. Hal *see* **Bein, Wolfgang W. et al.**, **2004f:68026**
Sun, Ningping (*with* Nakamura, Ryozo; Tada, Akio; Zhu, Hongbing) An analysis of the external hashing algorithm. (English summary)
Tada, Akio *see* **Sun, Ningping et al.**
Tamassia, Roberto *see* **Goodrich, Michael T.**, **2004a:68015**
Tsuda, Kazuhiko *see* **Morita, Kazuhiro et al.**
Venkatesh, Srinivasan *see* **Buhrman, Harry et al.**, **2004a:68014**
Verri, M. Cecilia *see* **Merlini, Donatella et al.**, **2004g:68025**
Wojna, Arkadiusz Center-based indexing in vector and metric spaces. (English summary) **2004j:68050**
Wu, Jie[5] (*with* Olariu, Stephan) On cost-optimal merge of two intransitive sorted sequences. (English summary) **2004b:68034**
Xiao, Wei *see* **Quan, Hui Yun et al.**
Zane, Francis X. *see* **Gupta, Anupam**, (**2004a:68002**)
Zeh, Norbert *see* **Hutchinson, David Alexander et al.**, **2004a:68016**
Zhu, Hongbing *see* **Sun, Ningping et al.**

Items with secondary classifications in 68P10

Akl, Selim G. *see* **Bruda, Stefan D.**, **2004c:68166**
Albert, Michael H. (*with* Atkinson, M. D.) Sorting with a forklift. (English summary)
— (*with* Atkinson, M. D.) Sorting with a forklift. (English summary) **2004j:05011**
Amir, Amihood (*with* Cole, Richard; Hariharan, Ramesh; Lewenstein, Moshe; Porat, Ely) Overlap matching. (English summary) **2004m:68269**
Arge, Lars External memory data structures. (English summary) (*see* **2004b:68001**)
— (*with* Vitter, Jeffrey Scott) Optimal external memory interval management. (English summary) **2004i:68035**
Arslan, Abdullah N. (*with* Eğecioğlu, Ömer) Dictionary look-up within small edit distance. (English summary)
Atkinson, M. D. *see* **Albert, Michael H.**, **2004j:05011**
Bader, David A. An improved randomized selection algorithm with an experimental study. (English summary) **2004j:68201**
Baritompa, W. P. *see* **Bulger, D. W. et al.**, **2004c:90065**
Blelloch, Guy E. (*with* Maggs, Bruce M.; Maverick Woo, Shan Leung) Space-efficient finger search on degree-balanced search trees. (English summary) (*see* **2004a:68002**)
Bóna, Miklós A survey of stack-sorting disciplines. (English summary) **2004j:05012**
Bruda, Stefan D. (*with* Akl, Selim G.) On limits on the computational power of data-accumulating algorithms. (English summary) **2004c:68166**
Bulger, D. W. (*with* Baritompa, W. P.; Wood, G. R.) Implementing pure adaptive search with Grover's quantum algorithm. (English summary) **2004c:90065**
Burkhard, Walter A. *see* **Martini, Paul M.**, **2004k:68188**
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— (*with* Sun, Shun Hua) Generalization of Grover's algorithm to multiobject search in quantum computing. II. General unitary transformations. (English summary) **2004h:81052**
Chen, Jeesen *see* **Chen, Goong et al.**, **2004h:81051**
Chern, Hua-Huai (*with* Hwang, Hsien-Kuei; Tsai, Tsung-Hsi) An asymptotic theory for Cauchy-Euler differential equations with applications to the analysis of algorithms. (English summary) **2004b:68197**
— (*with* Hwang, Hsien-Kuei) Partial match queries in random quadtrees. (English summary) **2004g:68206**
Cole, Richard *see* **Amir, Amihood et al.**, **2004m:68269**
Curado, Luiz Reginaldo A. F. *see* **Walter, Maria Emilia M. T. et al.**
Das, Saurya (*with* Kobes, Randy; Kunstatter, Gabor) Energy and efficiency of adiabatic quantum search algorithms. (English summary) **2004c:81054**
Dekking, F. Michel (*with* van der Wal, Peter) Uniform distribution modulo one and binary search trees. (English and French summaries) **2004m:11118**
— (*with* Meester, L. E.) An almost sure result for path lengths in binary search trees. (English summary) **2004c:68024**
Dogaru, Octavian C. (*with* Dogaru, Roxana) Algorithms on all occurences of a word in a text. (English summary)
Dogaru, Roxana *see* **Dogaru, Octavian C.**
Durand, Marianne *see* **Taylor, Stephen Eugene**, **2004d:68023**
Edelkamp, Stefan (*with* Stiegeler, Patrick) Implementing HEAPSORT with $n \log n - 0.9n$ and QUICKSORT with $n \log n + 0.2n$ comparisons. (English summary) **2004c:68168**
Eğecioğlu, Ömer *see* **Arslan, Abdullah N.**
Evans, David John[1] *see* **Shen, Hong[2] et al.**, **2004a:68159**
Evdokimov, L. A. *see* **Romanovskiĭ, I. V.**, **2004k:62155**
Fulling, Stephen A. *see* **Chen, Goong et al.**, **2004h:81051**
Grover, Lov K. (*with* Sengupta, Anirvan M.) From coupled pendulums to quantum search. (English summary) **2004i:81046**
Han, Yijie Optimal parallel selection. (English summary) (*see* **2004a:68002**)
— *see also* **Shen, Hong[2] et al.**, **2004a:68159**
Hariharan, Ramesh *see* **Amir, Amihood et al.**, **2004m:68269**
He, Yu Guo *see* **Sun, Ji Gui**, **2004d:81025**
Hitczenko, Paweł ★ Probabilistic analysis of sorting algorithms.
Hou, Yibin *see* **Li, Ying**
Høyer, Peter (*with* Neerbek, Jan; Shi, Yaoyun) Quantum complexities of ordered searching, sorting, and element distinctness. (English summary)
— (*with* Neerbek, Jan; Shi, Yaoyun) Quantum complexities of ordered searching, sorting, and element distinctness. (English summary) **2004g:68034**
Hwang, Hsien-Kuei Second phase changes in random m-ary search trees and generalized quicksort: convergence rates. (English summary) **2004b:60065**
— *see also* **Chern, Hua-Huai et al.**, **2004b:68197** *and* **2004g:68206**
Itokawa, Tsuyoshi *see* **Nakamura, Ryozo et al.**, **2004c:68172**
Kaplan, Haim (*with* Verbin, Elad) Efficient data structures and a new randomized approach for sorting signed permutations by reversals. (English summary)
Katajainen, Jyrki (*with* Pasanen, Tomi A.) A randomized in-place algorithm for positioning the kth element in a multiset. (English summary)
— (*with* Vitale, Fabio) Navigation piles with applications to sorting, priority queues, and priority deques. (English summary)
Kobes, Randy *see* **Das, Saurya et al.**, **2004c:81054**
Kunstatter, Gabor *see* **Das, Saurya et al.**, **2004c:81054**
Kuo, Sy-Yen *see* **Wei, David S. L. et al.**, **2004j:68190**
Larsen, Kim S. Relaxed red-black trees with group updates. (English summary) **2004e:68019**
Lewenstein, Moshe *see* **Amir, Amihood et al.**, **2004m:68269**
Li, Ying (*with* Hou, Yibin) Search audio data with the wavelet pyramidal algorithm. (English summary)
Maggs, Bruce M. *see* **Blelloch, Guy E. et al.**, (**2004a:68002**)
Martini, Paul M. (*with* Burkhard, Walter A.) Double hashing with multiple passbits. (English summary) **2004k:68188**
Maverick Woo, Shan Leung *see* **Blelloch, Guy E. et al.**, (**2004a:68002**)
Meester, L. E. *see* **Dekking, F. Michel**, **2004c:68024**
Mundici, Daniele Fault-tolerance and Rota-Metropolis cubic logic. (English summary) **2004h:03041**
Naik, Kshirasagar *see* **Wei, David S. L. et al.**, **2004j:68190**
Nakamura, Ryozo (*with* Soufiane, Ayad; Itokawa, Tsuyoshi) An alternative analysis of dynamic hashing algorithms. (English summary) **2004c:68172**
Narayanan, Ajit *see* **Wallace, Julia**, (**2004d:00014**)
Neerbek, Jan *see* **Høyer, Peter et al.**, **2004g:68034**
Neininger, Ralph (*with* Rüschendorf, Ludger) A general limit theorem for recursive algorithms and combinatorial structures. (English summary) **2004m:60046**
Oliveira, Adilton G. *see* **Walter, Maria Emilia M. T. et al.**
Östlin, Anna (*with* Pagh, Rasmus) One-probe search. (English summary)
Pagh, Rasmus (*with* Rodler, Flemming Friche) Cuckoo hashing. (English summary) **2004m:68029**
— *see also* **Östlin, Anna**
Pan, Yi *see* **Shen, Hong[2] et al.**, **2004a:68159**
Panholzer, Alois Analysis of multiple quickselect variants. (English summary) **2004c:68173**
— (*with* Prodinger, Helmut) Spanning tree size in random binary search trees. (English summary) **2004k:68032**
Pasanen, Tomi A. *see* **Katajainen, Jyrki**
Porat, Ely *see* **Amir, Amihood et al.**, **2004m:68269**
Prodinger, Helmut *see* **Panholzer, Alois**, **2004k:68032**
Rajasekaran, Sanguthevar *see* **Wei, David S. L. et al.**, **2004j:68190**
Reznik, Yu. A. On the space-time efficiency of digital trees with adaptive multidigit branching. (Russian. English and Ukrainian summaries) **2004m:68030**
Rodler, Flemming Friche *see* **Pagh, Rasmus**, **2004m:68029**
Romanovskiĭ, I. V. (*with* Evdokimov, L. A.) Calculation of correlation dimension of a time series based on enumeration of suboptimal solutions. (English summary) **2004k:62155**
Rüschendorf, Ludger *see* **Neininger, Ralph**, **2004m:60046**
Sen, Pranab (*with* Venkatesh, Srinivasan) Lower bounds in the quantum cell probe model. (English summary)
Sengupta, Anirvan M. *see* **Grover, Lov K.**, **2004i:81046**
Shen, Hong[2] (*with* Han, Yijie; Pan, Yi; Evans, David John[1]) Optimal parallel algorithms for multiselection on mesh-connected computers. (English summary) **2004a:68159**
Shi, Yaoyun *see* **Høyer, Peter et al.**, **2004g:68034**
Smythe, R. T. (*with* Wellner, Jon A.) Asymptotic analysis of (3, 2, 1)-shell sort. (English summary) **2004m:68299**
Soufiane, Ayad *see* **Nakamura, Ryozo et al.**, **2004c:68172**
Stiegeler, Patrick *see* **Edelkamp, Stefan**, **2004c:68168**
Sun, Ji Gui (*with* He, Yu Guo) A quantum search algorithm. (Chinese. English and Chinese summaries) **2004d:81025**
Sun, Shun Hua *see* **Chen, Goong**, **2004h:81052**
Taylor, Stephen Eugene (*with* Durand, Marianne) Emerging behavior as binary search trees are symmetrically updated. (English summary) **2004d:68023**
Thorup, Mikkel On AC^0 implementations of fusion trees and atomic heaps. (English summary) (*see* **2004a:68002**)
Tsai, Tsung-Hsi *see* **Chern, Hua-Huai et al.**, **2004b:68197**
Valiant, Leslie G. Quantum circuits that can be simulated classically in polynomial time. (English summary) **2004g:81044**
Venkatesh, Srinivasan *see* **Sen, Pranab**
Verbin, Elad *see* **Kaplan, Haim**
Vitale, Fabio *see* **Katajainen, Jyrki**
Vitter, Jeffrey Scott External memory algorithms. (English summary) (*see* **2004b:68001**)
— *see also* **Arge, Lars**, **2004i:68035**
van der Wal, Peter *see* **Dekking, F. Michel**, **2004m:11118**
Wallace, Julia (*with* Narayanan, Ajit) Quantum sorting and route finding. (English summary) (*see* **2004d:00014**)
Walter, Maria Emilia M. T. (*with* Curado, Luiz Reginaldo A. F.; Oliveira, Adilton G.) Working on the problem of sorting by transpositions on genome rearrangements. (English summary)
Wei, David S. L. (*with* Rajasekaran, Sanguthevar; Naik, Kshirasagar; Kuo, Sy-Yen) Efficient algorithms for selection and sorting of large distributed files on de Bruijn and hypercube structures. (English summary) **2004j:68190**

Wellner, Jon A. *see* **Smythe, R. T., 2004m:68299**
Wong, Kwok-Wo A combined chaotic cryptographic and hashing scheme. (English summary)
Wood, G. R. *see* **Bulger, D. W. et al., 2004c:90065**

68P15 Database theory

Achlioptas, Dimitris Database-friendly random projections: Johnson-Lindenstrauss with binary coins. (English summary) **2004h:68027**
Adnan, Ali *see* **Andon, P. I.**
Afrati, Foto (*with* Guessarian, Irène; de Rougemont, Michel) The expressiveness of DAC. (English summary) **2004f:68027**
Akutsu, Tatsuya (*with* Miyano, Satoru; Kuhara, Satoru) A simple greedy algorithm for finding functional relations: efficient implementation and average case analysis. (English summary) **2004a:68018**
Alechina, Natasha (*with* Demri, Stéphane; de Rijke, Maarten) A modal perspective on path constraints. (English summary) **2004k:68036**
Aliyev, A. A. (*with* Yusubov, A. I.) Modified optimistic multiversion concurrency control algorithm in distributed databases. (English summary)
Al-Muhtadi, J. *see* **Shah, Abad A. et al.**
Andon, P. I. (*with* Adnan, Ali) Logical-algebraic methods for processing queries in deductive database systems. (Ukrainian. English, Russian and Ukrainian summaries)
Arenas, Marcelo (*with* Bertossi, Leopoldo; Chomicki, Jan; He, Xin[1]; Raghavan, Vijay K.; Spinrad, Jeremy P.) Scalar aggregation in inconsistent databases. (English summary) **2004e:68023**
Arni, Faiz (*with* Ong, Kayliang; Tsur, Shalom; Wang, Haixun; Zaniolo, Carlo) The deductive database system $\mathcal{LDL}++$. (English summary)
Atallah, Mikhail J. (*with* Prabhakar, Sunil) (Almost) optimal parallel block access for range queries. (English summary)
Atanassov, Krassimir T. *see* **Chountas, Panagiotis et al.**
Bai, Yun (*with* Varadharajan, Vijay) Object oriented database with authorization policies. (English summary) **2004g:68026**
Bailey, James Alexander (*with* Dong, Guozhu; Ramamohanarao, Kotagiri) On the decidability of the termination problem of active database systems. (English summary) **2004m:68032**
Benedikt, Michael (*with* Grohe, Martin; Libkin, Leonid; Segoufin, Luc) Reachability and connectivity queries in constraint databases. (English summary) **2004d:68025**
Bertossi, Leopoldo *see* **Arenas, Marcelo et al., 2004e:68023**
Biskup, Joachim (*with* Polle, Torsten) Adding inclusion dependencies to an object-oriented data model with uniqueness constraints. (English summary) **2004e:68024**
Blanco, Ignacio J. (*with* Martín-Bautista, María J.; Pons, Olga; Vila, M. Amparo) A tuple-oriented algorithm for deduction in a fuzzy relational database. (English summary)
Bosc, Patrick (*with* Duval, Laurence; Pivert, Olivier) An initial approach to the evaluation of possibilistic queries addressed to possibilistic databases. (English summary)
— (*with* Pivert, Olivier) On the impact of regular functional dependencies when moving to a possibilistic database framework. (English summary)
Branković, Ljiljana (*with* Miller, Mirka; Širáň, Jozef) On range query usability of statistical databases. (English summary) **2004a:68019**
Buche, Patrice *see* **Thomopoulos, Rallou et al.**
Calders, T. (*with* Paredaens, Jan) Axiomatization of frequent itemsets. (English summary) **2004h:68028**
Cao, Tru Hoang (*with* Rossiter, J. M.) A deductive probabilistic and fuzzy object-oriented database language. (English summary)
Cardelli, Luca (*with* Gardner, Philippa; Ghelli, Giorgio) A spatial logic for querying graphs. (English summary)
Cellary, Wojciech *see* **Walczak, Krzysztof[2]**
Chang, Ye-In (*with* Liao, Cheng-Huang; Chen, Hue-Ling) NA-trees: a dynamic index for spatial data. (English summary) **2004a:68020**
Charikar, Moses (*with* Chen, Kevin C.; Farach-Colton, Martin) Finding frequent items in data streams. (English summary)
Chen, Hue-Ling *see* **Chang, Ye-In et al., 2004a:68020**
Chen, Kevin C. *see* **Charikar, Moses et al.**
Chen, Shyi-Ming (*with* Chen, Yu-Chuan) New fuzzy query processing techniques for fuzzy database systems. (English summary)
Chen, Yangjun Building signature trees into OODBs. (English summary)
Chen, Yu-Chuan *see* **Chen, Shyi-Ming**
Chen, Zhiyuan (*with* Korn, Flip; Koudas, Nick; Muthukrishnan, S. Muthu) Generalized substring selectivity estimation. (English summary) **2004d:68026**
Choi, Yong-Jin (*with* Park, Ho-Hyun; Chung, Chin-Wan) Estimating the result size of a query to velocity skewed moving objects.
Chomicki, Jan (*with* Haesevoets, Sofie; Kuijpers, Bart; Revesz, Peter) Classes of spatio-temporal objects and their closure properties. (English summary) **2004i:68040**
— *see also* **Arenas, Marcelo et al., 2004e:68023**
Chountas, Panagiotis (*with* Petrounias, Ilias; Atanassov, Krassimir T.) Conflicting situations in flexible systems. (English summary)
Chung, Chin-Wan *see* **Choi, Yong-Jin et al.**
Chung, Yon Dohn (*with* Kim, Jong Wook; Kim, Myoung Ho) Efficient preprocessing of XML queries using structured signatures. (English summary)
Coulondre, Stéphane A top-down proof procedure for generalized data dependencies. (English summary) **2004a:68021**
Dalvi, Nilesh N. (*with* Sanghai, Sumit K.; Roy, Prasan; Sudarshan, S.) Pipelining in multi-query optimization. (English summary) **2004g:68027**
Dang, De Peng *see* **Liu, Yun Sheng et al.**
Demetrovics, J. (*with* Katona, Gyula O. H.; Miklós, D.) Recent combinatorial results in the theory of relational databases. (English summary) **2004k:68037**
— (*with* Rónyai, Lajos; Hua Nam Son) Dependencies and generalized relations. (English summary) **2004m:68033**
Demri, Stéphane *see* **Alechina, Natasha et al., 2004k:68036**
Devanbu, Premkumar *see* **Martel, Charles et al., 2004k:68039**
Doberkat, Ernst-Erich (*with* Omodeo, Eugenio G.) ER modelling from first relational principles. (English summary) **2004k:68038**
Dong, Guozhu (*with* Libkin, Leonid; Wong, Limsoon) Incremental recomputation in local languages. (English summary) **2004b:68035**
— *see also* **Bailey, James Alexander et al., 2004m:68032**
Duval, Laurence *see* **Bosc, Patrick et al.**
Edmonds, Jeff (*with* Gryz, Jarek; Liang, Dongming; Miller, Renée J.) Mining for empty spaces in large data sets. (English summary) **2004d:68027**
Evans, David John[1] *see* **Mat Deris, M. et al.**
Fagin, Ronald (*with* Lotem, Amnon; Naor, Moni) Optimal aggregation algorithms for middleware. (English summary) **2004h:68029**
Fan, Wenfei (*with* Siméon, Jérôme) Integrity constraints for XML. (English summary) **2004m:68034**
Farach-Colton, Martín *see* **Charikar, Moses et al.**
Ferragina, Paolo (*with* Koudas, Nick; Muthukrishnan, S. Muthu; Srivastava, Divesh) Two-dimensional substring indexing. (English summary) **2004i:68041**
Fotouhi, F. *see* **Shah, Abad A. et al.**
Fragkou, P. *see* **Kehagias, Athanasios et al.**
Friedman, Marc *see* **Millstein, Todd et al., 2004d:68030**
Gardner, Philippa *see* **Cardelli, Luca et al.**
Gertz, Michael *see* **Martel, Charles et al., 2004k:68039**
Ghelli, Giorgio *see* **Cardelli, Luca et al.**
Grahne, Gösta (*with* Thomo, Alex) Algebraic rewritings for optimizing regular path queries. (English summary) **2004d:68028**
Greco, Gianluigi (*with* Zumpano, Ester) Complexity and algorithms for the matching of bag and set terms. (English summary) (*see* **2004j:68015**)
Grohe, Martin *see* **Benedikt, Michael et al., 2004d:68025**
Grosky, W. *see* **Shah, Abad A. et al.**
Grumbach, Stephane (*with* Tininini, Leonardo) On the content of materialized aggregate views. (English summary) **2004c:68026**
Gryz, Jarek *see* **Edmonds, Jeff et al., 2004d:68027**
Guessarian, Irène *see* **Afrati, Foto et al., 2004f:68027**
Haemmerlé, Ollivier *see* **Thomopoulos, Rallou et al.**
Haesevoets, Sofie *see* **Chomicki, Jan et al., 2004i:68040**
Halevy, Alon *see* **Millstein, Todd et al., 2004d:68030**
Hao, Zhong Xiao *see* **Yao, Chun Long, 2004b:68037**
He, Xin[1] *see* **Arenas, Marcelo et al., 2004e:68023**
Helmer, S. Evaluating different approaches for indexing fuzzy sets. (English summary)
Hesse, William The dynamic complexity of transitive closure is in DynTC^0. (English summary) **2004i:68042**
Hua Nam Son *see* **Demetrovics, J. et al., 2004m:68033**
Ibaraki, Toshihide (*with* Kogan, Alexander[1]; Makino, Kazuhisa) Inferring minimal functional dependencies in Horn and q-Horn theories. (English summary) **2004h:68030**
Jaluta, Ibrahim (*with* Sippu, Seppo; Soisalon-Soininen, Eljas) Recoverable $B \pm$ trees in centralized database management systems. (English summary)
Jing, Ning[2] *see* **Xiao, Yu Qin et al.**
Katona, Gyula O. H. *see* **Demetrovics, J. et al., 2004k:68037**
Kehagias, Athanasios (*with* Nicolaou, A.; Petridis, V.; Fragkou, P.) Text segmentation by product partition models and dynamic programming. (English summary)
Keller, G. Randy *see* **Torres, Roberto et al.**
Kim, Hyoung-Joo *see* **Kim, Jongik et al.**
Kim, Jong Wook *see* **Chung, Yon Dohn et al.**
Kim, Jongik (*with* Lee, Sang-Ho[1]; Kim, Hyoung-Joo) Efficient structural joins with clustered extents.
Kim, Myoung Ho *see* **Chung, Yon Dohn et al.**
King, Irwin *see* **Yue, H. Y. et al., (2004i:68002)**
Kleinberg, Jon (*with* Papadimitriou, Christos H.; Raghavan, Prabhakar) Auditing Boolean attributes. (English summary) **2004m:68035**
Kogan, Alexander[1] *see* **Ibaraki, Toshihide et al., 2004h:68030**
Koo, Zakil (*with* Moon, Songchun) Effects of broadcast errors on concurrency control in wireless broadcasting environments. (English summary) **2004e:68025**
Korn, Flip *see* **Chen, Zhiyuan et al., 2004d:68026**
Koubarakis, Manolis *see* **Skiadopoulos, Spiros, 2004j:68052**
Koudas, Nick *see* **Chen, Zhiyuan et al., 2004d:68026** *and* **Ferragina, Paolo et al., 2004i:68041**
Krajči, Stanislav (*with* Lencses, R.; Medina Moreno, Jesús; Ojeda-Aciego, Manuel; Valverde, Agustín; Vojtáš, Peter) Non-commutativity and expressive deductive logic databases. (English summary) (*see* **2004j:68015**)
Kreinovich, Vladik *see* **Torres, Roberto et al.**
Kuhara, Satoru *see* **Akutsu, Tatsuya et al., 2004a:68018**
Kuijpers, Bart *see* **Chomicki, Jan et al., 2004i:68040**
Kwong, April *see* **Martel, Charles et al., 2004k:68039**
Lamperti, Gianfranco (*with* Melchiori, Michele; Zanella, Marina) On multisets in database systems. (English summary) (*see* **2004k:68009**)
Laurent, Anne Querying fuzzy multidimensional databases: unary operators and their properties. (English summary)
Laurent, Dominique (*with* Phan Luong, V.; Spyratos, Nicolas) Querying weak instances under extension chase semantics: a complete solution. (English summary) **2004d:68029**
Lee, Sang-Ho[1] *see* **Kim, Jongik et al.**
Lencses, R. *see* **Krajči, Stanislav et al., (2004j:68015)**
Leung, Kwong-Sak *see* **Yue, H. Y. et al., (2004i:68002)**
Li, Jun *see* **Xiao, Yu Qin et al.**
Liang, Dongming *see* **Edmonds, Jeff et al., 2004d:68027**
Liao, Cheng-Huang *see* **Chang, Ye-In et al., 2004a:68020**
Libkin, Leonid A collapse result for constraint queries over structures of small degree. (English summary) **2004g:68028**
— Expressive power of SQL. (English summary) **2004b:68036**
— *see also* **Dong, Guozhu et al., 2004b:68035** *and* **Benedikt, Michael et al., 2004d:68025**
Liu, Guo Hua (*with* Wang, Wei; Zhang, Liang; Shi, Bai Le) An algorithm for creating an object normal form based on directed graph. (Chinese. English and Chinese summaries)

Liu, Jixue (*with* Vincent, Millist W.) Derivation of incremental equations for PNF nested relations. (English summary) **2004e:68026**
— *see also* **Vincent, Millist W., 2004i:68043**
Liu, Li[1] *see* **Zhang, Shichao**
Liu, Yun Sheng (*with* Dang, De Peng; Zhang, Xiao Fang) Methods of maintaining external consistency for real-time data. (Chinese. English and Chinese summaries)
— *see also* **Qin, Biao et al.**
Longpré, Luc *see* **Torres, Roberto et al.**
Lotem, Amnon *see* **Fagin, Ronald et al., 2004h:68029**
Lu, Ning Iterated data mining techniques on embedded vector modeling. **2004c:68027**
Lynch, James F. Analysis and application of adaptive sampling. (English summary) **2004j:68051**
Makino, Kazuhisa *see* **Ibaraki, Toshihide et al., 2004h:68030**
Manolopoulos, Yannis *see* **Papadopoulos, Apostolos**
Martel, Charles (*with* Nuckolls, Glen; Devanbu, Premkumar; Gertz, Michael; Kwong, April; Stubblebine, Stuart G.) A general model for authenticated data structures. (English summary) **2004k:68039**
Martin-Bautista, Maria J. *see* **Blanco, Ignacio J. et al.**
Mat Deris, M. (*with* Evans, David John[1]; Saman, M. Y.; Noraziah, A.) Binary vote assignment on a grid for efficient access of replicated data. (English summary)
Medina Moreno, Jesús *see* **Krajči, Stanislav et al., (2004j:68015)**
Melchiori, Michele *see* **Lamperti, Gianfranco et al., (2004k:68009)**
Miklós, D. *see* **Demetrovics, J. et al., 2004k:68037**
Miller, Mirka *see* **Branković, Ljiljana et al., 2004a:68019**
Miller, Renée J. *see* **Edmonds, Jeff et al., 2004d:68027**
Millstein, Todd (*with* Halevy, Alon; Friedman, Marc) Query containment for data integration systems. (English summary) **2004d:68030**
Miyano, Satoru *see* **Akutsu, Tatsuya et al., 2004a:68018**
Moon, Songchun *see* **Koo, Zakil, 2004e:68025**
Muthukrishnan, S. Muthu (*with* Strauss, Martin Joel) Rangesum histograms. (English summary) (*see* **2004a:68002**)
— *see also* **Chen, Zhiyuan et al., 2004d:68026** *and* **Ferragina, Paolo et al., 2004i:68041**
Naor, Moni *see* **Fagin, Ronald et al., 2004h:68029**
Nguyen, Linh Anh The modal query language MDatalog. (English summary) **2004f:68028**
Nguyen Hung Son[2] On efficient handling of continuous attributes in large data bases. (English summary) **2004g:68029**
Nicolaou, A. *see* **Kehagias, Athanasios et al.**
Noraziah, A. *see* **Mat Deris, M. et al.**
Nuckolls, Glen *see* **Martel, Charles et al., 2004k:68039**
Ojeda-Aciego, Manuel *see* **Krajči, Stanislav et al., (2004j:68015)**
Omodeo, Eugenio G. *see* **Doberkat, Ernst-Erich, 2004k:68038**
Ong, Kayliang *see* **Arni, Faiz et al.**
Pankowski, Tadeusz PathLog: a query language for schemaless databases of partially labeled objects. (English summary)
Papadimitriou, Christos H. *see* **Kleinberg, Jon et al., 2004m:68035**
Papadopoulos, Apostolos (*with* Manolopoulos, Yannis) Parallel bulk-loading of spatial data. (English summary)
Paredaens, Jan *see* **Calders, T., 2004h:68028**
Park, Ho-Hyun *see* **Choi, Yong-Jin et al.**
Petridis, V. *see* **Kehagias, Athanasios et al.**
Petrounias, Ilias *see* **Chountas, Panagiotis et al.**
Phan Luong, V. *see* **Laurent, Dominique et al., 2004d:68029**
Pivert, Olivier *see* **Bosc, Patrick et al.**
Polle, Torsten *see* **Biskup, Joachim, 2004e:68024**
Pons, Olga *see* **Blanco, Ignacio J. et al.**
Poon, Chung Keung Dynamic orthogonal range queries in OLAP. (English summary) **2004c:68028**
Prabhakar, Sunil *see* **Atallah, Mikhail J.**
Qin, Biao (*with* Liu, Yun Sheng; Yang, JinCai) A commit strategy for distributed real-time transaction. (English summary)
Raghavan, Prabhakar *see* **Kleinberg, Jon et al., 2004m:68035**
Raghavan, Vijay K. *see* **Arenas, Marcelo et al., 2004e:68023**
Rajaraman, Anand (*with* Ullman, Jeffrey D.) Querying websites using compact skeletons. (English summary) **2004h:68031**
Ramamohanarao, Kotagiri *see* **Bailey, James Alexander et al., 2004m:68032**
Revesz, Peter *see* **Chomicki, Jan et al., 2004i:68040**
de Rijke, Maarten *see* **Alechina, Natasha et al., 2004k:68036**
Rocacher, Daniel On fuzzy bags and their application to flexible querying. (English summary)
Rónyai, Lajos *see* **Demetrovics, J. et al., 2004m:68033**
Rossiter, J. M. *see* **Cao, Tru Hoang**
de Rougemont, Michel *see* **Afrati, Foto et al., 2004f:68027**
Roy, Prasan *see* **Dalvi, Nilesh N. et al., 2004g:68027**
Sakai, Hiroshi Effective procedures for handling possible equivalence relations in non-deterministic information systems. (English summary) **2004f:68029**
Saman, M. Y. *see* **Mat Deris, M. et al.**
Sanghai, Sumit K. *see* **Dalvi, Nilesh N. et al., 2004g:68027**
Segoufin, Luc *see* **Benedikt, Michael et al., 2004d:68025**
Shah, Abad A. (*with* Fotouhi, F.; Grosky, W.; Al-Muhtadi, J.) Operators of the temporal object system and their implementation. (English summary)
Shi, Bai Le *see* **Zhang, Shou Zhi** *and* **Liu, Guo Hua et al.**
Siméon, Jérôme *see* **Fan, Wenfei, 2004m:68034**
Sippu, Seppo *see* **Jaluta, Ibrahim et al.**
Širáň, Jozef *see* **Branković, Ljiljana et al., 2004a:68019**
Sistla, A. Prasad Formal languages and algorithms for similarity based retrieval from sequence databases. (English summary) **2004k:68040**
Skiadopoulos, Spiros (*with* Koubarakis, Manolis) Composing cardinal direction relations. (English summary) **2004j:68052**
Soisalon-Soininen, Eljas *see* **Jaluta, Ibrahim et al.**
Spinrad, Jeremy P. *see* **Arenas, Marcelo et al., 2004e:68023**
Spyratos, Nicolas *see* **Laurent, Dominique et al., 2004d:68029**
Srivastava, Divesh *see* **Ferragina, Paolo et al., 2004i:68041**
Stanišić, Predrag Query translation from relational to object-oriented database. (English summary)
Starks, Scott A. *see* **Torres, Roberto et al.**
Strauss, Martin Joel *see* **Muthukrishnan, S. Muthu, (2004a:68002)**
Stubblebine, Stuart G. *see* **Martel, Charles et al., 2004k:68039**
Sudarshan, S. *see* **Dalvi, Nilesh N. et al., 2004g:68027**
Teniente, Ernest (*with* Urpí, Toni) On the abductive or deductive nature of database schema validation and update processing problems. (English summary)
Thomo, Alex *see* **Grahne, Gösta, 2004d:68028**
Thomopoulos, Rallou (*with* Buche, Patrice; Haemmerlé, Ollivier) Representation of weakly structured imprecise data for fuzzy querying. (English summary)
Tininini, Leonardo *see* **Grumbach, Stephane, 2004c:68026**
Torres, Roberto (*with* Keller, G. Randy; Kreinovich, Vladik; Longpré, Luc; Starks, Scott A.) Eliminating duplicates under interval and fuzzy uncertainty: an asymptotically optimal algorithm and its geospatial applications. (English summary)
Tsur, Shalom *see* **Arni, Faiz et al.**
Tyszkiewicz, Jerzy Computability by sequences of queries. (English summary) **2004f:68030**
Ugarov, A. V. Automation of the construction of queries in relational databases. (Russian. English summary) (*see* **2004j:00008**)
Ullman, Jeffrey D. *see* **Rajaraman, Anand, 2004h:68031**
Urpí, Toni *see* **Teniente, Ernest**
Valverde, Agustín *see* **Krajči, Stanislav et al., (2004j:68015)**
Varadharajan, Vijay *see* **Bai, Yun, 2004g:68026**
Vianu, Victor Logic as a query language: from Frege to XML. (English summary)
Vila, M. Amparo *see* **Blanco, Ignacio J. et al.**
Vincent, Millist W. (*with* Liu, Jixue) Irrelevant updates and self-maintainability in transitive closure database views. (English summary) **2004i:68043**
— *see also* **Liu, Jixue, 2004e:68026**
Vojtáš, Peter *see* **Krajči, Stanislav et al., (2004j:68015)**
Walczak, Krzysztof[2] (*with* Cellary, Wojciech) Modeling virtual worlds in databases. (English summary)
Wang, Haixun *see* **Arni, Faiz et al.**
Wang, Wei *see* **Liu, Guo Hua et al.**
Wong, Limsoon *see* **Dong, Guozhu et al., 2004b:68035**
Xiao, Yu Qin (*with* Zhang, Ju; Jing, Ning[2]; Li, Jun) Direction relation query processing using R-trees. (Chinese. English and Chinese summaries)
Yang, JinCai *see* **Qin, Biao et al.**
Yao, Chun Long (*with* Hao, Zhong Xiao) Study on set of temporal functional dependencies with totally ordered set of temporal types. (Chinese. English and Chinese summaries) **2004b:68037**
Yau, Stephen S.-T. *see* **Zhang, Qing-Long**
Yue, H. Y. (*with* King, Irwin; Leung, Kwong-Sak) Fuzzy clustering method for content-based indexing. (English summary) (*see* **2004i:68002**)
Yusubov, A. I. *see* **Aliyev, A. A.**
Zanella, Marina *see* **Lamperti, Gianfranco et al., (2004k:68009)**
Zaniolo, Carlo *see* **Arni, Faiz et al.**
Zhang, Chengqi *see* **Zhang, Shichao**
Zhang, Ju *see* **Xiao, Yu Qin et al.**
Zhang, Liang *see* **Liu, Guo Hua et al.**
Zhang, Qing-Long (*with* Yau, Stephen S.-T.) A general approach to indexing and retrieval of images in image databases. (English summary)
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68P20 Information storage and retrieval

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Korst, Jan *see* **Aerts, Joep et al.**, (**2004j:68002**)
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López-Pujalte, C. *see* **Cordón, O. et al.**
Luo, Ding *see* **Chen, Xiaohong[2] et al.**
Luque Rodríguez, María *see* **Cordón, O. et al.**
Markovskaja, N. A. *see* **Polymenopoulos, Alex et al.**, (**2004h:00017**)
(May, Kenneth O.) *see* **Lewis, Albert C.**
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Nagai, Akira *see* **Chen, Liang[4] et al.**
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Rangan, C. *see* **Ahn, J. et al.**, **2004a:81041**
Rastogi, Rajeev *see* **Guha, Sudipto et al.**, (**2004j:62005**)
Riera, C. *see* **Coullet, P. et al.**, **2004m:37170**
Rodler, Flemming Friche *see* **Pagh, Rasmus**, **2004m:68029**
Seyed-allaei, Hamed Finite-size scaling approach to dynamic storage allocation problem. (English summary)
Shachnai, Hadas *see* **Gaysinsky, Alexander et al.**
(Shekhar, Shashi) *see* **Clustering and information retrieval**, **2004j:62005**
Shim, Kyuseok *see* **Guha, Sudipto et al.**, (**2004j:62005**)
Song, Dawei *see* **Li, Jian Ping[1] et al.**
Spieksma, Frits C. R. *see* **Aerts, Joep et al.**, (**2004j:68002**)
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Tan, Chew Lim *see* **He, Ji[2] et al.**, (**2004j:62005**)
Tang, Yuan Yan[1] *see* **Li, Jian Ping[1] et al.**
Tokuda, Naoyuki *see* **Chen, Liang[4] et al.**
Tresser, Charles *see* **Coullet, P. et al.**, **2004m:37170**
Varman, Peter J. *see* **Kallahalla, Mahesh**
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68P25 Data encryption [see also 94A60, 81P68]

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Chang, Chin-Chen *see* **Huang, Hui-Feng**, **2004j:68053**
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Chang, Chin-Chen *see* **Chan, Chao-Wen**
Charatonik, Witold *see* **Amadio, Roberto M.**, (**2004j:68004**)
Chen, Chiu-Chin *see* **Hwang, Shin-Jia**, **2004g:94067** *and* **2004i:94049**
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Dawson, Edward *see* **Burnett, L. et al.**, **2004m:94036**
Debbabi, Mourad *see* **Adi, Kamel et al.**, **2004b:94054**
Devanbu, Premkumar *see* **Martel, Charles et al.**, **2004k:68039**
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Jan, Jinn-Ke *see* **Chien, Hung-Yu et al.**
Jeffrey, Alan Stewart Austin *see* **Gordon, Andrew D.**, **2004d:68087**
Jeong, Sangtae *see* **Park, Young Ho et al.**, **2004d:94026**
Ji, Zhen *see* **Li, Shujun et al.**, **2004c:94092**
Jiang, Zhong-Ping *see* **Zhang, Hao[5] et al.**, **2004j:94026**
(Kabatyanskiĭ, G. A.) *see* **Cryptography: an introduction**, **2004c:94105**
Kalouptsidis, Nicholas *see* **Kolokotronis, Nicholas**, **2004k:94045**
Khachatrian, Levon H. *see* **Ahlswede, Rudolf et al.**, **2004j:11085**
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Kurkowski, Mirosław The completeness theorem for a logic of authentication. (English summary) **2004i:03058**
Kurosawa, Kaoru *see* **Iwata, Tetsu et al.**, **2004g:94050**
Kushilevitz, Eyal *see* **Ishai, Yuval**
Küsters, Ralf On the decidability of cryptographic protocols with open-ended data structures. (English summary) (*see* **2004j:68004**)
— *see also* **Chevalier, Yannick et al.**, **2004m:94038**
Kwong, April *see* **Martel, Charles et al.**, **2004k:68039**
Lai, Yan-Chi *see* **Hwang, Min-Shiang et al.**
Lam, Kwok-Yan *see* **Cai, Ning**, **2004g:94065**
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Lee, Cheng-Chi *see* **Lu, Eric Jui-Lin et al.**, **2004b:94067** *and* **Hwang, Min-Shiang et al.**
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Lin, Han-Yu *see* **Wu, Tzong-Sun et al.**
Lindell, Yehuda Parallel coin-tossing and constant-round secure two-party computation. (English summary) **2004f:94068**
Liśkiewicz, Maciej *see* **Bläser, Markus et al.**, **2004m:94080**
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Malkin, Tal *see* **Beimel, Amos et al.**, **2004m:68036**
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Martinelli, Enrico *see* **Fiorini, Claudia et al.**, **2004h:94043**
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Massacci, Fabio *see* **Fiorini, Claudia et al.**, **2004h:94043**
Massey, James L. *see* **Khachatryan, G. G.[1] et al.**, (**2004k:94066**)
Mauduit, Christian *see* **Ahlswede, Rudolf et al.**, **2004j:11085**
Meidl, Wilfried (*with* Niederreiter, Harald) Periodic sequences with maximal linear complexity and large k-error linear complexity. (English summary) **2004k:94046**
Mejri, Mohamed *see* **Adi, Kamel et al.**, **2004b:94054**
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Micciancio, Daniele (*with* Goldwasser, Shafi) ★ Complexity of lattice problems. **2004m:94067**
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Monniaux, David Abstracting cryptographic protocols with tree automata. (English summary) **2004f:94071**
Mou, Xuanqin *see* **Li, Shujun et al.**, **2004c:94092**
M'Raïhi, David *see* **Coron, Jean-Sébastien et al.**, **2004m:94039**
Muurling, Geeke *see* **Batina, Lejla**, (**2004j:94027**)
Myers, Steven Efficient amplification of the security of weak pseudo-random function generators. (English summary) **2004b:94070**
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Naor, Moni (*with* Reingold, Omer; Rosen, Alon) Pseudorandom functions and factoring. (English summary) **2004b:94071**
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68P30 Coding and information theory (compaction, compression, models of communication, encoding schemes, etc.) [see also 94Axx]

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68P99 None of the above, but in this section

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68Qxx Theory of computing

Items with secondary classifications in 68Qxx

(Alt, Helmut) *see* **Symposium: Theoretical Aspects of Computer Science**
(Durand-Lose, Jérôme) *see* **Symposium: Theoretical Aspects of Computer Science**
Manna, Zohar ★ Mathematical theory of computation. **2004j:68001**

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Antibes-Juan les Pins ★ Symposium on Theoretical Aspects of Computer Science.
Symposium:
Theoretical Aspects of Computer Science ★ Symposium on Theoretical Aspects of Computer Science.

68Q01 General

Buchberger, Bruno Mathematics and computer science: a personal view.

Items with secondary classifications in 68Q01

Rotman, Brian Will the digital computer transform classical mathematics? (English summary) **2004i:00007**

68Q05 Models of computation (Turing machines, etc.) [see also 03D10, 81P68]

Ablaev, Farid M. (*with* Moore, Cristopher; Pollett, Christopher) Quantum and stochastic branching programs of bounded width (track A). (English summary)
— On the complexity of classical and quantum models of computations. (Russian) **2004m:68042**
— (*with* Karpinski, Marek) A lower bound for integer multiplication on randomized ordered read-once branching programs. (English summary) **2004h:68035**
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Amano, Masami (*with* Iwama, Kazuo; Raymond H.P., Rudy) Exploiting the difference in probability calculation between quantum and probabilistic computations. (English summary) **2004m:68044**
Ananichev, D. S. (*with* Volkov, Mikhail V.) Synchronizing monotonic automata. (English summary) (*see* **2004j:68010**)
Andersen, Henrik Reif (*with* Hulgaard, Henrik) Boolean expression diagrams. (English summary) **2004b:68039**
Angelsmark, Ola (*with* Dahllöf, Vilhelm; Jonsson, Peter) Finite domain constraint satisfaction using quantum computation. (English summary)
Arrighi, Pablo Quantum computation explained to my mother. (English summary)
Arroyo, Fernando (*with* Baranda, Angel V.; Castellanos, Juan; Luengo, Carmen; Mingo, Luis F.) Structures and bio-language to simulate transition P systems on digital computers. (English summary) (*see* **2004k:68009**)
Arulanandham, Joshua J. Implementing bead-sort with P systems. (English summary) (*see* **2004j:68023**)
Atanasiu, Adrian (*with* Martín-Vide, Carlos) Recursive calculus with membranes. (English summary) **2004i:68047**
Bäck, Thomas (*with* Kok, Joost N.; Rozenberg, Grzegorz) Evolutionary computation as a paradigm for DNA-based computing. (English summary) (*see* **2004i:68003**)
Bălănescu, Tudor *see* **Aguado, Joaquin et al., 2004i:68046**
Banâtre, Jean-Pierre (*with* Fradet, Pascal; Le Métayer, Daniel) Gamma and the chemical reaction model: fifteen years after. (English summary) (*see* **2004k:68009**)
Baranda, Angel V. *see* **Arroyo, Fernando et al., (2004k:68009)**
Ben-Hur, Asa (*with* Siegelmann, Hava T.) Computation in gene networks. (English summary) **2004k:68042**
Bernardini, Francesco (*with* Gheorghe, Marian; Holcombe, Mike) PX systems = P systems + X machines. (English summary) **2004i:68048**
Bertoni, Alberto (*with* Mereghetti, Carlo; Palano, Beatrice) Quantum computing: 1-way quantum automata. (English summary) (*see* **2004j:68010**)
Besozzi, D. (*with* Mauri, Giancarlo; Păun, Gheorghe; Zandron, Claudio) Gemmating P systems: collapsing hierarchies. (English summary) **2004b:68040**
Biedl, Therese C. (*with* Buss, Jonathan F.; Demaine, Erik D.; Demaine, Martin L.; Hajiaghayi, Mohammad Taghi; Vinař, Tomáš) Palindrome recognition using a multidimensional tape. (English summary) **2004d:68036**
Bilardi, Gianfranco (*with* Peserico, Enoch) A characterization of temporal locality and its portability across memory hierarchies. (English summary)
Blass, Andreas (*with* Gurevich, Yuri) Abstract state machines capture parallel algorithms. (English summary) **2004i:68049**
Bollig, Beate (*with* Woelfel, Philipp) A lower bound technique for nondeterministic graph-driven read-once-branching programs and its applications (extended abstract). (English summary)
— Complexity theoretical results on nondeterministic graph-driven read-once branching programs (extended abstract). (English summary)
— A very simple function that requires exponential size nondeterministic graph-driven read-once branching programs. (English summary) **2004b:68041**
— (*with* Wegener, Ingo) Functions that have read-once branching programs of quadratic size are not necessarily testable. (English summary) **2004d:68037**
— Complexity theoretical results on nondeterministic graph-driven read-once branching programs. (English summary) **2004h:68036**
Börger, Egon (*with* Sona, Diego) A neural abstract machine. (English summary) **2004g:68031**
Brodsky, Alex (*with* Pippenger, Nicholas) Characterizations of 1-way quantum finite automata. (English summary) **2004h:68037**
Brosenne, Henrik (*with* Homeister, Matthias; Waack, Stephan) Characterizing the complexity of Boolean functions represented by well-structured graph-driven parity-FBDDs. (English summary) **2004a:68023**
Bruda, Stefan D. (*with* Akl, Selim G.) Pursuit and evasion on a ring: an infinite hierarchy for parallel real-time systems. (English summary) **2004c:68030**
Brun, Todd A. Computers with closed timelike curves can solve hard problems efficiently. (English summary) **2004b:68042**
Buhrman, Harry (*with* Fortnow, Lance; Newman, Ilan; Röhrig, Hein) Quantum property testing. (English summary) (*see* **2004a:68002**)
Buss, Jonathan F. *see* **Biedl, Therese C. et al., 2004d:68036**
Cabodi, Gianpiero Meta-BDDs: a decomposed representation for layered symbolic manipulation of Boolean functions. (English summary) (*see* **2004j:68007**)
Carpentieri, Marco On the simulation of quantum Turing machines. (English summary) **2004f:68032**
Castellanos, Juan (*with* Martín-Vide, Carlos; Mitrana, Victor; Sempere, José M.) Networks of evolutionary processors. (English summary) **2004e:68029**
— *see also* **Arroyo, Fernando et al., (2004k:68009)**
Caucal, Didier On the transition graphs of Turing machines. (English summary) **2004b:68043**
Cavaliere, Matteo (*with* Jonoska, Nataša) Forbidding and enforcing in membrane computing. (English summary) **2004k:68043**
Ceterchi, Rodica (*with* Gramatovici, Radu; Jonoska, Nataša; Subramanian, K. G.) Tissue-like P systems with active membranes for picture generation. (English summary) **2004k:68044**
— (*with* Mutyam, Madhu; Păun, Gheorghe; Subramanian, K. G.) Array-rewriting P systems. (English summary) **2004j:68055**
Chrobak, Marek Errata to: "Finite automata and unary languages" [Theoret. Comput. Sci. **47** (1986), no. 2, 149–158; MR 88d:68017]. (English summary) **2004d:68038**
Cleve, Richard *see* **Adcock, Mark, 2004m:68043**
Copeland, B. Jack Hypercomputation in the Chinese room. (English summary) (*see* **2004j:68023**)
Costa, Antônio Carlos Da R. *see* **Reiser, R. H. S. et al., 2004i:68062**
Costa, José Félix *see* **Graça, Daniel Silva, 2004e:68031**
Cotogno, Paolo Hypercomputation and the physical Church-Turing thesis. (English summary) **2004e:68030**
Coven, Ethan M. (*with* Jonoska, Nataša) DNA hybridization, shifts of finite type, and tiling of the integers. (English summary) (*see* **2004i:00018**)
Cowling, Anthony J. *see* **Aguado, Joaquin et al., 2004i:68046**
Csuhaj-Varjú, Erzsébet (*with* Salomaa, Arto) Networks of Watson-Crick D0L systems. (English summary) (*see* **2004h:68006**)
— (*with* Martín-Vide, Carlos; Păun, Gheorghe; Salomaa, Arto) From Watson-Crick L systems to Darwinian P systems. (English summary) **2004k:68045**
Cucker, Felipe Three lectures on real computation. (English summary) (*see* **2004d:68050**)
Dahllöf, Vilhelm *see* **Angelsmark, Ola et al.**
van Dam, Wim (*with* Hallgren, Sean; Ip, Lawrence) Quantum algorithms for some hidden shift problems. (English summary) (*see* **2004a:68002**)
Dang, Zhe *see* **Ibarra, Oscar H. et al., 2004j:68057**
Dantsin, E. Ya. (*with* Wolpert, Alexander) Solving constraint satisfaction problems with DNA computing. (English summary)
Dedieu, Jean-Pierre Systems of inequalities and the stability of decision machines. (*see* **2004g:65003**)
Demaine, Erik D. *see* **Biedl, Therese C. et al., 2004d:68036** *and* **Hearn, Robert A.**
Demaine, Martin L. *see* **Biedl, Therese C. et al., 2004d:68036**
Dimuro, G. P. *see* **Reiser, R. H. S. et al., 2004i:68062**
Dong, Ya Fei *see* **Xu, Jin^2 et al.**
Dovier, Agostino (*with* Piazza, Carla; Rossi, Gianfranco) Multiset constraints and *P* systems. (English summary) (*see* **2004k:68009**)
Eğecioğlu, Ömer *see* **Ibarra, Oscar H. et al., 2004j:68057**
Ehrenfeucht, Andrzej (*with* Prescott, David M.; Rozenberg, Grzegorz) Computational aspects of gene (un)scrambling in ciliates. (English summary) (*see* **2004i:68003**)
— (*with* Rozenberg, Grzegorz) Forbidding-enforcing systems. (English summary) **2004c:68031**
Ekert, Artur K. Quantum computation. **2004g:68032**
Etessami, Kousha *see* **Alur, Rajeev et al., (2004j:68007)**
Fantozzi, Carlo (*with* Pietracaprina, Andrea; Pucci, Geppino) Seamless integration of parallelism and memory hierarchy (extended abstract). (English summary)
Feige, Uriel (*with* Verbitskiĭ, O. V.) Error reduction by parallel repetition—a negative result. (English summary) **2004a:68024**
Fortnow, Lance One complexity theorist's view of quantum computing. (English summary) **2004b:68044**
— *see also* **Buhrman, Harry et al., (2004a:68002)**
Fradet, Pascal *see* **Banâtre, Jean-Pierre et al., (2004k:68009)**
Franěk, František (*with* Lu, Weilin; Smyth, William F.) Two-pattern strings. I. A recognition algorithm. (English summary) **2004i:68050**
Freund, Franziska *see* **Freund, Rudolf J., (2004i:00018)**
Freund, Rudolf J. (*with* Oswald, Marion) GP systems with forbidding context. (English summary) **2004i:68051**
— (*with* Martín-Vide, Carlos; Obtułowicz, Adam; Păun, Gheorghe) On three classes of automata-like P systems. (English summary) (*see* **2004j:68010**)
— (*with* Freund, Franziska) Generalized homogeneous P-systems. (English summary) (*see* **2004i:00018**)
— (*with* Martín-Vide, Carlos; Păun, Gheorghe) From regulated rewriting to computing with membranes: collapsing hierarchies. (English summary) **2004j:68056**
Frisco, Pierluigi (*with* Hoogeboom, Hendrik Jan; Sant, Paul) A direct construction of a universal P system. (English summary) **2004i:68052**
— Direct constructions of universal extended H systems. (English summary) **2004b:68045**
Fujita, Kenji *see* **Imai, Katsunobu et al., (2004j:68023)**
Fujiwara, Yoshihisa *see* **Suzuki, Yasuhiro et al., (2004k:68009)**
Gheorghe, Marian *see* **Aguado, Joaquin et al., 2004i:68046**; **Bernardini, Francesco et al., 2004i:68048** *and* **Ipate, Florentin et al., 2004i:68054**
Giavitto, Jean-Louis (*with* Michel, Olivier) Data structure as topological spaces. (English summary) (*see* **2004j:68023**)
— (*with* Michel, Olivier) The topological structures of membrane computing. (English summary) **2004i:68053**
Gori, Marco (*with* Meer, Klaus) A step towards a complexity theory for analog systems. (English summary) **2004k:68046**
de Graaf, Mart (*with* de Wolf, Ronald) On quantum versions of the Yao principle. (English summary) **2004m:68045**
Graça, Daniel Silva (*with* Costa, José Félix) Analog computers and recursive functions over the reals. (English summary) **2004e:68031**
Graciani Díaz, C. (*with* Martín Mateos, F. J.; Pérez Jiménez, Mario J.) Specification of Adleman's restricted model using an automated reasoning system: verification of Lipton's experiment. (English summary) (*see* **2004j:68023**)
Gramatovici, Radu *see* **Ceterchi, Rodica et al., 2004k:68044**
Gruau, Frédéric (*with* Malbos, Philippe) The blob: a basic topological concept for

"hardware-free" distributed computation. (English summary) (*see* **2004j:68023**)
Guo, Hao (*with* Long, Gui-Lu; Li, Feng) Quantum algorithms for some well-known NP problems. (English summary) **2004h:68038**
Gurevich, Yuri (*with* Tillmann, Nikolai) Partial updates: exploration. (English summary) **2004g:68033**
— *see also* **Blass, Andreas**, **2004i:68049**
Hajiaghayi, Mohammad Taghi *see* **Biedl, Therese C. et al.**, **2004d:68036**
Hallgren, Sean *see* **van Dam, Wim et al.**, (**2004a:68002**)
He, Lin *see* **Zhao, Jian et al.**
Hearn, Robert A. (*with* Demaine, Erik D.) The nondeterministic constraint logic model of computation: reductions and applications. (English summary)
Hemaspaandra, Lane A. (*with* Mukherji, Proshanto; Tantau, Till) Computation with absolutely no space overhead. (English summary) (*see* **2004j:68010**)
Holcombe, Mike *see* **Aguado, Joaquin et al.**, **2004i:68046**; **Bernardini, Francesco et al.**, **2004i:68048** *and* **Ipate, Florentin et al.**, **2004i:68054**
Homeister, Matthias *see* **Brosenne, Henrik et al.**, **2004a:68023**
Hoogeboom, Hendrik Jan (*with* van Vugt, Nikè) Upper bounds for restricted splicing. (English summary) (*see* **2004j:00032**)
— *see also* **Frisco, Pierluigi et al.**, **2004i:68052**
Høyer, Peter (*with* Neerbek, Jan; Shi, Yaoyun) Quantum complexities of ordered searching, sorting, and element distinctness. (English summary) **2004g:68034**
Hudry, Olivier Machines de Turing et complexité algorithmique. (English and French summaries) [Turing machines and algorithmic complexity] **2004f:68033**
Hulgaard, Henrik *see* **Andersen, Henrik Reif**, **2004b:68039**
Ibarra, Oscar H. (*with* Dang, Zhe; Eğecioğlu, Ömer) Catalytic P systems, semilinear sets, and vector addition systems. (English summary) **2004j:68057**
Imai, Hiroshi *see* **Niwa, Jumpei et al.**, (**2004j:68023**)
Imai, Katsunobu (*with* Fujita, Kenji; Iwamoto, Chuzo; Morita, Kenichi) Embedding a logically universal model and a self-reproducing model into number-conserving cellular automata. (English summary) (*see* **2004j:68023**)
Ionescu, Mihai (*with* Martín-Vide, Carlos; Păun, Andrei; Păun, Gheorghe) Unexpected universality results for three classes of P systems with symport/antiport. (English summary) **2004m:68046**
Ip, Lawrence *see* **van Dam, Wim et al.**, (**2004a:68002**)
Ipate, Florentin (*with* Gheorghe, Marian; Holcombe, Mike) Testing (stream) X-machines. (English summary) **2004i:68054**
— *see also* **Aguado, Joaquin et al.**, **2004i:68046**
Iwama, Kazuo *see* **Amano, Masami et al.**, **2004m:68044**
Iwamoto, Chuzo *see* **Imai, Katsunobu et al.**, (**2004j:68023**)
Jachowicz, Piotr Net-definability of computable functions. (English summary) **2004i:68055**
Jonoska, Nataša Trends in computing with DNA. (English summary)
— *see also* **Cavaliere, Matteo**, **2004k:68043**; **Ceterchi, Rodica et al.**, **2004k:68044**; **Coven, Ethan M.**, (**2004i:00018**) *and* **Sa-Ardyen, Phiset et al.**
Jonsson, Peter *see* **Angelsmark, Ola et al.**
Kameda, Atsushi (*with* Matsuura, Nobuo; Yamamoto, Masahito; Ohuchi, Azuma) An analysis of computational efficiency of DNA computing. (English summary) (*see* **2004j:68023**)
Kára, Jan (*with* Kráľ, Daniel) Optimal free binary decision diagrams for computation of EAR_n. (English summary)
Kari, Lila (*with* Kitto, Rob; Thierrin, Gabriel) Codes, involutions, and DNA encodings. (*see* **2004j:00032**)
— *see also* **Landweber, Laura F.**, (**2004i:68003**)
Karpinski, Marek *see* **Ablaev, Farid M.**, **2004h:68035**
Katsányi, István On implementing relational databases on DNA strands. (English summary)
Kawaguchi, Yuuichi A common structure of logical and algebraic algorithms. (English summary) (*see* **2004k:03009**)
Kawakami, Takeshi Communication and computation by quantum games. (English summary) (*see* **2004j:68023**)
Kevorchian, Cristian An algebraic topology approach of multidimensional data management based on membrane computing. (English summary)
Kitto, Rob *see* **Kari, Lila et al.**, (**2004j:00032**)
Kobayashi, Hirotada (*with* Matsumoto, Keiji[2]) Quantum multi-prover interactive proof systems with limited prior entanglement. (English summary) **2004h:68039**
Kok, Joost N. *see* **Bäck, Thomas et al.**, (**2004i:68003**)
Kráľ, Daniel *see* **Kára, Jan**
Krishna, Shankara Narayanan (*with* Rama, Raghavan) On the power of tissue P systems working in the minimal mode. (English summary) (*see* **2004j:68023**)
— (*with* Lakshmanan, K.; Rama, Raghavan) On the power of P systems with contextual rules. (English summary) **2004i:68056**
— (*with* Rama, Raghavan) Breaking DES using P systems. (English summary) **2004b:68046**
Krithivasan, Kamala (*with* Madhu, Mutyam) Contextual P systems. (English summary) **2004i:68057**
— *see also* **Madhu, Mutyam**, **2004i:68058** *and* **Mutyam, Madhu**, (**2004k:68009**)
Kudlek, Manfred *see* **Alhazov, Artiom et al.**, **2004a:68022**
Kutrib, Martin Refining nondeterminsim below linear time. (English summary) **2004f:68034**
de Lacy Costello, Benjamin *see* **Adamatskiĭ, A. I.**, **2004e:68028**
Lafont, Yves Towards an algebraic theory of Boolean circuits. (English summary) **2004g:68035**
Lakshmanan, K. *see* **Krishna, Shankara Narayanan et al.**, **2004i:68056**
Landweber, Laura F. (*with* Kari, Lila) Universal molecular computation in ciliates. (English summary) (*see* **2004i:68003**)
van Leeuwen, Jan *see* **Wiedermann, Jiří**, **2004a:68025**
Le Métayer, Daniel *see* **Banâtre, Jean-Pierre et al.**, (**2004k:68009**)
Li, Feng *see* **Guo, Hao et al.**, **2004h:68038**
Li, Xiu Xia *see* **Zhao, Jian et al.**
Lipton, Richard J. (*with* Ogihara, Mitsunori; Zalcstein, Yechezkel) A note on square rooting of time functions of Turing machines. **2004c:68032**
Liu, Jian-Qin (*with* Shimohara, Katsunori) Signaling-pathway-based molecular computing for efficient 3-SAT problem solving. (English summary)
Long, Gui-Lu *see* **Guo, Hao et al.**, **2004h:68038**
Lu, Weilin *see* **Franěk, František et al.**, **2004i:68050**
Luengo, Carmen *see* **Arroyo, Fernando et al.**, (**2004k:68009**)
Madhu, Mutyam (*with* Krithivasan, Kamala) On a class of P automata. (English summary) **2004i:68058**
— *see also* **Krithivasan, Kamala**, **2004i:68057**
Malbos, Philippe *see* **Gruau, Frédéric**, (**2004j:68023**)
Manca, Vincenzo DNA and membrane algorithms for SAT. (English summary) **2004i:68059**
Marcus, Solomon Membranes versus DNA. (English summary)
Margenstern, Maurice (*with* Rogozhin, Yurii) Self-describing Turing machines. (English summary) **2004g:68036**
— (*with* Pavlotskaya, Liudmila) On the optimal number of instructions for universal Turing machines connected with a finite automaton. (English summary) **2004g:68037**
Martín Mateos, F. J. *see* **Graciani Díaz, C. et al.**, (**2004j:68023**)
Martín-Vide, Carlos (*with* Păun, Gheorghe; Rodríguez-Patón, Alfonso) On P systems with membrane creation. (English summary)
— (*with* Păun, Andrei; Păun, Gheorghe; Rozenberg, Grzegorz) Membrane systems with coupled transport: universality and normal forms. (English summary) **2004i:68060**
— (*with* Păun, Gheorghe; Pazos, Juan; Rodríguez-Patón, Alfonso) Tissue P systems. (English summary) **2004b:68047**
— (*with* Mitrana, Victor) Networks of evolutionary processors: a survey. (English summary) **2004d:68039**
— *see also* **Castellanos, Juan et al.**, **2004e:68029**; **Atanasiu, Adrian**, **2004i:68047**; **Freund, Rudolf J. et al.**, **2004j:68056**; (**2004j:68010**); **Csuhaj-Varjú, Erzsébet et al.**, **2004k:68045** *and* **Ionescu, Mihai et al.**, **2004m:68046**
Maté, José L. (*with* Rodríguez-Patón, Alfonso; Silva, Andrés) On the power of P systems with DNA-worm-objects. (English summary) **2004i:68061**
Mateescu, Alexandru Routes and trajectories. (English summary) (*see* **2004h:68006**)
Matsumoto, Keiji[2] *see* **Kobayashi, Hirotada**, **2004h:68039** *and* **Niwa, Jumpei et al.**, (**2004j:68023**)
Matsuura, Nobuo *see* **Kameda, Atsushi et al.**, (**2004j:68023**)
Matýsek, Jiří *see* **Sosík, Petr**, (**2004j:68023**)
Mauri, Giancarlo *see* **Besozzi, D. et al.**, **2004b:68040**
Mayr, Richard Undecidable problems in unreliable computations. (English summary) **2004b:68048**
Meer, Klaus *see* **Gori, Marco**, **2004k:68046**
Mereghetti, Carlo *see* **Bertoni, Alberto et al.**, (**2004j:68010**)
Michel, Olivier *see* **Giavitto, Jean-Louis**, **2004i:68053** *and* (**2004j:68023**)
Mingo, Luis F. *see* **Arroyo, Fernando et al.**, (**2004k:68009**)
Mitrana, Victor *see* **Martín-Vide, Carlos**, **2004d:68039** *and* **Castellanos, Juan et al.**, **2004e:68029**
Moore, Cristopher *see* **Ablaev, Farid M. et al.**
Morita, Kenichi A new universal logic element for reversible computing. (English summary) (*see* **2004i:00018**)
— *see also* **Imai, Katsunobu et al.**, (**2004j:68023**)
Mukherji, Proshanto *see* **Hemaspaandra, Lane A. et al.**, (**2004j:68010**)
Mutyam, Madhu (*with* Krithivasan, Kamala) Universality results for some variants of P systems. (English summary) (*see* **2004k:68009**)
— *see also* **Ceterchi, Rodica et al.**, **2004j:68055**
Nanchen, Stanislas *see* **Stärk, Robert F.**, **2004g:68041**
Neerbek, Jan *see* **Høyer, Peter et al.**, **2004g:68034**
Newman, Ilan *see* **Buhrman, Harry et al.**, (**2004a:68002**)
Nishida, Taishin Yasunobu Multiset and K-subset transforming systems. (English summary) (*see* **2004k:68009**)
Niwa, Jumpei (*with* Matsumoto, Keiji[2]; Imai, Hiroshi) General-purpose parallel simulator for quantum computing. (English summary) (*see* **2004j:68023**)
Obtułowicz, Adam On P systems with active membranes solving the integer factorization problem in a polynomial time. (English summary) (*see* **2004k:68009**)
— Mathematical models of uncertainty with a regard to membrane systems. (English summary) **2004j:68058**
— *see also* **Freund, Rudolf J. et al.**, (**2004j:68010**)
Ogihara, Mitsunori *see* **Lipton, Richard J. et al.**, **2004c:68032**
Ohuchi, Azuma *see* **Kameda, Atsushi et al.**, (**2004j:68023**)
Osipov, S. A. The problem of the applicability of the normal algorithm of A. A. Markov. (Russian)
Oswald, Marion *see* **Freund, Rudolf J.**, **2004i:68051**
Ozawa, Masanao Halting of quantum Turing machines. (English summary) **2004m:68047**
Ozhigov, Yu. I. Fast quantum mechanical verification of logic formulas. (Russian) **2004c:68033**
Palano, Beatrice *see* **Bertoni, Alberto et al.**, (**2004j:68010**)
Păun, Andrei *see* **Martín-Vide, Carlos et al.**, **2004i:68060** *and* **Ionescu, Mihai et al.**, **2004m:68046**
Păun, Gheorghe *see* **Besozzi, D. et al.**, **2004b:68040**; **Martín-Vide, Carlos et al.**, **2004b:68047**; **2004i:68060**; **Ceterchi, Rodica et al.**, **2004j:68055**; **Freund, Rudolf J. et al.**, **2004j:68056**; (**2004j:68010**); **Csuhaj-Varjú, Erzsébet et al.**, **2004k:68045** *and* **Ionescu, Mihai et al.**, **2004m:68046**
Pavlotskaya, Liudmila *see* **Margenstern, Maurice**, **2004g:68037**
Pazos, Juan *see* **Martín-Vide, Carlos et al.**, **2004b:68047**
Pérez Jiménez, Mario J. (*with* Sancho Caparrini, Fernando) A formalization of transition P systems. (English summary) **2004j:68059**
— (*with* Romero Jiménez, Álvaro; Sancho Caparrini, Fernando) Complexity classes in models of cellular computing with membranes. (English summary) **2004j:68060**
— *see also* **Romero Jiménez, Álvaro**, **2004i:68063**; (**2004j:68023**) *and* **Graciani Díaz, C. et al.**, (**2004j:68023**)
Peserico, Enoch *see* **Bilardi, Gianfranco**
Piazza, Carla *see* **Dovier, Agostino et al.**, (**2004k:68009**)

Pietracaprina, Andrea *see* **Fantozzi, Carlo et al.**
Pippenger, Nicholas *see* **Brodsky, Alex, 2004h:68037**
Pollett, Christopher *see* **Ablaev, Farid M. et al.**
Popély, Norbert The communication hierarchy of time and space bounded parallel machines. (English summary) **2004g:68038**
Postow, Brian (*with* Regan, Kenneth W.; Smith, Carl H.) UPSILON: universal programming system with incomplete lazy object notation. (English summary) **2004g:68039**
Prescott, David M. (*with* Rozenberg, Grzegorz) How ciliates manipulate their own DNA—a splendid example of natural computing. (English summary)
— *see also* **Ehrenfeucht, Andrzej et al.**, (**2004i:68003**)
Pucci, Geppino *see* **Fantozzi, Carlo et al.**
Rama, Raghavan *see* **Krishna, Shankara Narayanan et al.**, **2004b:68046**; **2004i:68056** *and* (**2004j:68023**)
Raymond H.P., Rudy *see* **Amano, Masami et al.**, **2004m:68044**
Regan, Kenneth W. *see* **Postow, Brian et al.**, **2004g:68039**
Reiser, R. H. S. (*with* Costa, Antônio Carlos Da R.; Dimuro, G. P.) First steps in the construction of the geometric machine model. (English and Portuguese summaries) **2004i:68062**
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Reisig, Wolfgang On Gurevich's theorem on sequential algorithms. (English summary) **2004m:68048**
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Rodríguez-Patón, Alfonso *see* **Martín-Vide, Carlos et al.**, **2004b:68047** *and* **Maté, José L. et al.**, **2004i:68061**
Rogozhin, Yurii *see* **Alhazov, Artiom et al.**, **2004a:68022** *and* **Margenstern, Maurice**, **2004g:68036**
Rõhrig, Hein *see* **Buhrman, Harry et al.**, (**2004a:68002**)
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Rosenberg, Arnold L. Efficient pairing functions—and why you should care. (English summary) **2004b:68049**
Rossi, Gianfranco *see* **Dovier, Agostino et al.**, (**2004k:68009**)
Rozenberg, Grzegorz (*with* Spaink, H.) DNA computing by blocking. (English summary) **2004f:68035**
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Salomaa, Arto *see* **Csuhaj-Varjú, Erzsébet et al.**, **2004k:68045** *and* (**2004h:68006**)
Sancho Caparrini, Fernando *see* **Pérez Jiménez, Mario J. et al.**, **2004j:68059** *and* **2004j:68060**
Sant, Paul *see* **Frisco, Pierluigi et al.**, **2004i:68052**
Sauerhoff, Martin Guess-and-verify versus unrestricted nondeterminism for OBDDs and one-way Turing machines. (English summary) **2004c:68034**
Schellhorn, Gerhard Verification of ASM refinements using generalized forward simulation. (English summary) **2004g:68040**
Seeman, Nadrian C. *see* **Sa-Ardyen, Phiset et al.**
Sempere, José M. *see* **Castellanos, Juan et al.**, **2004e:68029**
Sen, Pranab (*with* Venkatesh, Srinivasan) Lower bounds in the quantum cell probe model. (English summary)
Shi, Yaoyun *see* **Høyer, Peter et al.**, **2004g:68034**
Shi, Yong Yong *see* **Zhao, Jian et al.**
Shimohara, Katsunori *see* **Liu, Jian-Qin**
Siegelmann, Hava T. *see* **Ben-Hur, Asa**, **2004k:68042**
Silva, Andrés *see* **Maté, José L. et al.**, **2004i:68061**
Smith, Carl H. *see* **Postow, Brian et al.**, **2004g:68039**
Smyth, William F. *see* **Franěk, František et al.**, **2004i:68050**
Sona, Diego *see* **Börger, Egon**, **2004g:68031**
Sosík, Petr (*with* Matýsek, Jiří) Membrane computing: when communication is enough. (English summary) (*see* **2004j:68023**)
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— The computational power of cell division in P systems: beating down parallel computers? (English summary) **2004j:68061**
Spaink, H. *see* **Rozenberg, Grzegorz**, **2004f:68035**
Stärk, Robert F. (*with* Nanchen, Stanislas) A logic for abstract state machines. (English summary) **2004g:68041**
Subramanian, K. G. *see* **Ceterchi, Rodica et al.**, **2004j:68055** *and* **2004k:68044**
Sullivan, Peggy Cut, paste and filter. (English summary) **2004i:68064**
Suzuki, Yasuhiro (*with* Fujiwara, Yoshihisa; Takabayashi, Junji; Tanaka, Hiroshi[3]) Artificial life applications of a class of P systems: abstract rewriting systems on multisets. (English summary) (*see* **2004k:68009**)
Takabayashi, Junji *see* **Suzuki, Yasuhiro et al.**, (**2004k:68009**)
Tanaka, Hiroshi[3] *see* **Suzuki, Yasuhiro et al.**, (**2004k:68009**)
Tantau, Till Comparing verboseness for finite automata and Turing machines. (English summary) **2004m:68050**
— *see also* **Hemaspaandra, Lane A. et al.**, (**2004j:68010**)
Thierrin, Gabriel *see* **Kari, Lila et al.**, (**2004j:00032**)
Tillmann, Nikolai *see* **Gurevich, Yuri**, **2004g:68033**
Vazirani, Umesh V. Fourier transforms and quantum computation. (English summary) **2004b:68050**
Venkatesh, Srinivasan *see* **Sen, Pranab**
Verbitskiĭ, O. V. *see* **Feige, Uriel**, **2004a:68024**
Vinař, Tomáš *see* **Biedl, Therese C. et al.**, **2004d:68036**
Volkov, Mikhail V. *see* **Ananichev, D. S.**, (**2004j:68010**)
van Vugt, Nikè *see* **Hoogeboom, Hendrik Jan**, (**2004j:00032**)
Waack, Stephan *see* **Brosenne, Henrik et al.**, **2004a:68023**
Wegener, Ingo BDDs—design, analysis, complexity, and applications. (English summary) **2004m:68051**
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Wei, Xiao Peng *see* **Xu, Jin[2] et al.**
Wiedermann, Jiří (*with* van Leeuwen, Jan) The emergent computational potential of evolving artificial living systems. (English summary) **2004a:68025**
— Fuzzy Turing machines revised. (English summary) **2004g:68042**
Woelfel, Philipp A lower bound technique for restricted branching programs and applications. (English summary) (*see* **2004j:68020**)
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de Wolf, Ronald *see* **de Graaf, Mart**, **2004m:68045**
Wolpert, Alexander *see* **Dantsin, E. Ya.**
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Yannakakis, Mihalis *see* **Alur, Rajeev et al.**, (**2004j:68007**)
Zalcstein, Yechezkel *see* **Lipton, Richard J. et al.**, **2004c:68032**
Zandron, Claudio *see* **Besozzi, D. et al.**, **2004b:68040**
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Atkinson, M. D. *see* **Albert, Michael H. et al.**, **2004d:68106**
Austinat, Holger (*with* Diekert, Volker; Hertrampf, Ulrich) A structural property of regular frequency computations. (English summary) **2004a:68059**
Bae, Joonwoo (*with* Kwon, Younghun) Maximum speedup in quantum search: $O(1)$ running time. (English summary) **2004k:81084**
Baldamus, Michael (*with* Schneider, Klaus[1]) The BDD space complexity of different forms of concurrency. (English summary) **2004i:68131**
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Bennett, Charles H. Notes on Landauer's principle, reversible computation, and Maxwell's demon. (English summary)
Berkman, Omer *see* **Ben-Amram, Amir M. et al.**, **2004i:68074**
Beth, Thomas *see* **Wocjan, Pawel et al.**, **2004j:81043** *and* **Janzing, Dominik et al.**, **2004m:81053**
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Blum, Lenore *see* **Cucker, Felipe**, (**2004g:65003**)
Blume-Kohout, Robin (*with* Caves, Carlton M.; Deutsch, Ivan H.) Climbing Mount Scalable: physical resource requirements for a scalable quantum computer. (English summary) **2004a:81045**
Bojadžiev, Damjan A note on interaction and incompleteness. (English summary) **2004m:03212**
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Bouajjani, Ahmed (*with* Habermehl, Peter; Mayr, Richard) Automatic verification of recursive procedures with one integer parameter. (English summary) **2004h:68078**
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Brandt, Howard E. Qubit devices. (English summary) (*see* **2004h:81070**)
Branicky, M. *see* **Bournez, Olivier**, **2004h:03090**
Brattka, Vasco The emperor's new recursiveness: the epigraph of the exponential function in two models of computability. (English summary) (*see* **2004h:68006**)
(Brauer, Wilfried) *see* **Formal and natural computing**, **2004j:00032**
Brenner, R. *see* **Clark, R. G. et al.**
(Brylinski, Ranee K.) *see* **Mathematics of quantum computation**, **2004d:81027**
Bucksbaum, P. H. *see* **Ahn, J. et al.**, **2004a:81041**
Buehler, T. M. *see* **Clark, R. G. et al.**
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Calude, Elena *see* **Calude, Cristian S.**, **2004a:68063**

Campagnolo, Manuel Lameiras The complexity of real recursive functions. (English summary) **2004m:68059**

Carlini, Alberto *see* **Sasaki, Masahide**, **2004a:81064**

Castagnoli, Giuseppe (*with* Finkelstein, David Ritz) Quantum ground-state computation with kinematical gates. (English summary) **2004k:81089**

Caves, Carlton M. *see* **Blume-Kohout, Robin et al.**, **2004a:81045**

Cerny, Eduard *see* **Aït Mohamed, Otmane et al.**, **2004b:68102**

Cervelle, Julien (*with* Durand, Bruno) Tilings: recursivity and regularity. (English summary) **2004m:03148**

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Ciencialová, Lucie *see* **Cienciala, Luděk**

Cimatti, A. (*with* Pistore, M.; Roveri, M.; Traverso, P.) Weak, strong, and strong cyclic planning via symbolic model checking. (English summary) **2004f:68140**

Ciobanu, Gabriel (*with* Rotaru, Mihai) Molecular interaction. (English summary) **2004a:68106**

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Cleve, Richard *see* **de Beaudrap, J. Niel et al.**, **2004k:81085**

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Dang, Zhe Pushdown timed automata: a binary reachability characterization and safety verification. (English summary) **2004g:68105**

Dao, Thi-Bich-Hanh *see* **Colmerauer, Alain**, **2004j:03039**

Das, Bireswar *see* **Siromoney, Rani**, **2004b:94074**

Das, Ranabir *see* **Mahesh, T. S. et al.**

Das, Saurya (*with* Kobes, Randy; Kunstatter, Gabor) Energy and efficiency of adiabatic quantum search algorithms. (English summary) **2004c:81054**

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Deutsch, Ivan H. *see* **Blume-Kohout, Robin et al.**, **2004a:81045**

D'Hooghe, Bart *see* **Aerts, Diederik**, **2004j:81032**

Diekert, Volker *see* **Austinat, Holger et al.**, **2004a:68059**

(Dinneen, Michael J.) *see* **Unconventional models of computation**, **2004j:68023**

Domaratzki, Michael (*with* Okhotin, Alexander) Representing recursively enumerable languages by iterated deletion. (English summary) **2004m:68133**

Dong, Ya Fei *see* **Xu, Jin^2 et al.**

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Drechsler, Rolf *see* **Schmiedle, Frank et al.**, **2004a:68011**

Durand, Bruno *see* **Cervelle, Julien**, **2004m:03148**

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Edalat, Abbas (*with* Lieutier, André) Foundation of a computable solid modelling. (English summary) **2004e:68112**

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(Ehrig, Hartmut) *see* **Formal and natural computing**, **2004j:00032**

Elomaa, Tapio *see* **Nock, Richard et al.**, **2004c:68048**

Escardó, Martín Hötzel *see* **Bauer, Andrej et al.**

de Falco, Diego *see* **Apolloni, Bruno**, **2004a:81042**

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Fang, Chen *see* **Li, Yuan^2 et al.**

Fantozzi, Carlo (*with* Pietracaprina, Andrea; Pucci, Geppino) A general pram simulation scheme for clustered machines. (English summary) **2004k:68048**

Farach-Colton, Martín *see* **Womach, Catherine**, **2004k:03016**

Fenner, Stephen A. Counting complexity and quantum computation. (English summary) **2004h:68043**

Ferretti, Claudio (*with* Mauri, Giancarlo; Păun, Gheorghe; Zandron, Claudio) On three variants of rewriting P systems. (English summary) **2004a:68054**

Finkelstein, David Ritz *see* **Castagnoli, Giuseppe**, **2004k:81089**

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Galota, Matthias (*with* Kosub, Sven; Vollmer, Heribert) Generic separations and leaf languages. (English summary) **2004d:68045**

Gąsieniec, Leszek *see* **Chlebus, Bogdan S. et al.**, **2004h:68040**

Ghosh, Arindam^2 *see* **Mahesh, T. S. et al.**

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Grover, Lov K. (*with* Sengupta, Anirvan M.) From coupled pendulums to quantum search. (English summary) **2004i:81046**

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Gruska, Jozef ★ Quantum computing. **2004i:81004**

Gunji, Yukio-Pegio *see* **Aono, Masashi**, (**2004d:00014**)

Günther, Wolfgang *see* **Schmiedle, Frank et al.**, **2004a:68011**

Habermehl, Peter *see* **Bouajjani, Ahmed et al.**, **2004h:68078**

(Hagiya, Masami) *see* **Special Issue: DNA computing**

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Hamkins, Joel David (*with* Welch, Philip David) $\mathrm{P}^f \neq \mathrm{NP}^f$ for almost all f. (English summary) **2004m:03163**

Hamrick, Michael *see* **Gilbert, Gerald**, **2004a:94041**

Harju, Tero *see* **Ehrenfeucht, Andrzej et al.**, **2004b:92016**

Hayes, Thomas P. (*with* Kutin, Samuel; van Melkebeek, Dieter) The quantum black-box complexity of majority. (English summary) **2004j:81037**

He, Yu Guo *see* **Sun, Ji Gui**, **2004d:81025**

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Hertrampf, Ulrich *see* **Austinat, Holger et al.**, **2004a:68059**

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Holcombe, Mike *see* **Ipate, Florentin**, (**2004i:00018**)

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Hutchinson, D. N. *see* **Ahn, J. et al.**, **2004a:81041**

Ibarra, Oscar H. *see* **Daley, Mark et al.**, **2004j:68095**

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Jaekel, Marc-Thierry *see* **Matherat, Philippe**, **2004m:68179**

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Jozsa, Richard (*with* Linden, Noah) On the role of entanglement in quantum-

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Kääriäinen, Matti *see* **Nock, Richard et al., 2004c:68048**

Kabanets, Valentine Almost k-wise independence and hard Boolean functions. (English summary) **2004k:68058**

(Karchmer, Mauricio) *see* **Grolmusz, Vince, 2004d:68046**

(Karhumäki, Juhani) *see* **Formal and natural computing, 2004j:00032**

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Kaszlikowski, Dagomir *see* **Chen, Jing-Ling et al., 2004c:81052**

Kerenidis, Iordanis (*with* Nayak, Ashwin) Weak coin flipping with small bias. (English summary) **2004m:81055**

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Klappenecker, Andreas (*with* Rötteler, Martin) Quantum software reusability. (English summary) **2004k:81095**

Kobes, Randy *see* **Das, Saurya et al., 2004c:81054**

Kolman, Petr *see* **Juurlink, Ben et al., 2004m:68274**

Konstantinidis, Stavros *see* **Kari, Lila et al., 2004i:68118**

Kosub, Sven *see* **Galota, Matthias et al., 2004d:68045**

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Pietracaprina, Andrea *see* **Fantozzi, Carlo et al., 2004k:68048**

Pistore, M. *see* **Cimatti, A. et al., 2004f:68140**

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Rieping, Ingo *see* **Juurlink, Ben et al., 2004m:68274**

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Rogozhin, Yurii *see* **Kudlek, Manfred, 2004f:03075**

Rotaru, Mihai *see* **Ciobanu, Gabriel, 2004a:68106**

Rötteler, Martin *see* **Klappenecker, Andreas, 2004k:81095**

Roveri, M. *see* **Cimatti, A. et al.**, **2004f:68140**
Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej et al.**, **2004b:92016**; **Formal and natural computing**, **2004j:00032**; **Multiset processing**, **2004k:68009** *and* **Special Issue: DNA computing**
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Sauerhoff, Martin Approximation of Boolean functions by combinatorial rectangles. (English summary) **2004h:68050**
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Schindler, Ralf $P \neq NP$ for infinite time Turing machines. (English summary) **2004m:03164**
Schmiedle, Frank (*with* Günther, Wolfgang; Drechsler, Rolf) Dynamic re-encoding during MDD minimization. (English summary) **2004a:68011**
Schneider, Klaus[1] *see* **Baldamus, Michael**, **2004i:68131**
Schnitger, Georg *see* **Hromkovič, Juraj**, **2004b:68092**
Schulman, Leonard J. *see* **Ambainis, Andris et al.**, **2004k:94016**
Schwentick, Thomas *see* **Grandjean, Etienne**, **2004b:68054**
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Sen, Pranab *see* **Jain, Rahul et al.**, **2004k:68051** *and* **Radhakrishnan, Jaikumar et al.**, **2004m:81058**
Sengupta, Anirvan M. *see* **Grover, Lov K.**, **2004i:81046**
Sgall, Jiří *see* **Fischer, Eldar et al.**, **2004j:68076**
Sharda, K. *see* **Krithivasan, Kamala et al.**, **2004h:68069**
Shi, Yaoyun Both Toffoli and controlled-NOT need little help to do universal quantum computing. (English summary) **2004c:81065**
Siegle, Markus *see* **Hermanns, Holger et al.**, **2004f:68096**
Simpson, Alex *see* **Bauer, Andrej et al.**
Sinha, Neeraj *see* **Mahesh, T. S. et al.**
Siromoney, Rani (*with* Das, Bireswar) DNA algorithm for breaking a propositional logic based cryptosystem. (English summary) **2004b:94074**
(Smale, Stephen) *see* **Cucker, Felipe**, **(2004g:65003)**
Song, Xiaoyu *see* **Aït Mohamed, Otmane et al.**, **2004b:68102**
Sosík, Petr *see* **Salomaa, Arto**, **2004d:68067**
Spielmann, Marc Verification of relational transducers for electronic commerce. (English summary) **2004d:68171**
Steane, Andrew M. A quantum computer only needs one universe. (English summary) **2004i:81050**
Suciu, Dan *see* **Milo, Tova et al.**, **2004c:68116**
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Ta-Shma, Amnon *see* **Hallgren, Sean et al.**, **2004j:81036** *and* **Ambainis, Andris et al.**, **2004k:94016**
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Valiant, Leslie G. Quantum circuits that can be simulated classically in polynomial time. (English summary) **2004g:81044**
Varma, Sandeep V. *see* **Krithivasan, Kamala et al.**, **2004h:68069**
Vazirani, Umesh V. *see* **Ambainis, Andris et al.**, **2004k:94016**
Venkatesh, Srinivasan *see* **Radhakrishnan, Jaikumar et al.**, **2004m:81058**
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Vianu, Victor *see* **Milo, Tova et al.**, **2004e:68116**
Vinay, V. *see* **Ramesh, H.**, **2004j:81040**
Vollmar, Roland *see* **Sanders, Peter et al.**, **2004k:68120**
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Wang, Tsai-Cheng *see* **Fan, Tsai-Hung et al.**, **(2004j:68014)**
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Wei, Xiao Peng *see* **Xu, Jin**[2] **et al.**
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Welch, Philip David *see* **Hamkins, Joel David**, **2004m:03163**
Werbos, Paul J. Classical ODE and PDE which obey quantum dynamics. (English summary) **2004d:81026**
Whitehead, Jennifer *see* **Maller, Michael**, **2004c:68042**
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DNA computing ★ Special issue on DNA computing.
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68Q10 Modes of computation (nondeterministic, parallel, interactive, probabilistic, etc.) [see also 68Q85]

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Fujita, Satoshi On-line grid-packing with a single active grid. (English summary)
Gambosi, Giorgio *see* **Crescenzi, Pierluigi et al., 2004k:68047**
Garay, Juan A. *see* **Bar-Noy, Amotz et al., 2004f:68036**
Gąsieniec, Leszek *see* **Chlebus, Bogdan S. et al., 2004h:68040**
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Iwama, Kazuo (*with* Yonezawa, Kouki) The orthogonal CNN problem. (English summary) **2004m:68052**
Kan, W. K. *see* **Lau, Siu-chung et al., 2004c:68036a** *and* **2004c:68036b**
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Ngan, Tsuen-Wan *see* **Koo, Chiu-Yuen et al., 2004a:68027**
Nielsen, Morten N. *see* **Boyar, Joan et al., 2004g:68043**
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Nuzman, Joseph *see* **Naishlos, Dorit et al.**
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Pelc, Andrzej *see* **Chlebus, Bogdan S. et al., 2004h:68040**
Penna, Paolo *see* **Crescenzi, Pierluigi et al., 2004k:68047**
Peserico, Enoch Online paging with arbitrary associativity. (English summary) (*see* **2004a:68002**)
Pietracaprina, Andrea *see* **Fantozzi, Carlo et al., 2004k:68048**
Pucci, Geppino *see* **Fantozzi, Carlo et al., 2004k:68048**
Rajsbaum, Sergio *see* **Herlihy, Maurice, 2004h:68041**
Sadakane, Kunihiko *see* **Koo, Chiu-Yuen et al., 2004a:68027**
Sauerhoff, Martin *see* **Hromkovič, Juraj, 2004c:68035**
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Spirakis, Paul G. *see* **Bouras, Christos et al., 2004f:68037**
van Stee, Rob *see* **Epstein, Leah et al.**
Takamura, Masataka (*with* Igarashi, Yoshihide) Group mutual exclusion algorithms based on ticket orders. (English summary)
To, Kar-Keung *see* **Koo, Chiu-Yuen et al., 2004a:68027**
Tseng, Chau-Wen *see* **Naishlos, Dorit et al.**
Villar, José *see* **Cucala, Asunción P.**, (**2004i:68002**)
Vishkin, Uzi *see* **Naishlos, Dorit et al.**
Wang, Kanliang *see* **Ma, Weimin et al.**
Wu, Yu-Liang *see* **Lau, Siu-chung et al., 2004c:68036a** *and* **2004c:68036b**
Xu, Yinfeng *see* **Ma, Weimin et al.**
Yap, Chee *see* **Chang, Ee-Chien, 2004j:68062**
Yonezawa, Kouki *see* **Iwama, Kazuo, 2004m:68052**
You, Jane *see* **Ma, Weimin et al.**
Young, Gilbert H. *see* **Lau, Siu-chung et al., 2004c:68036a** *and* **2004c:68036b**

Items with secondary classifications in 68Q10

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Akl, Selim G. *see* **Bruda, Stefan D., 2004c:68030**
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— Online algorithms: a survey. (English summary) **2004h:68158**
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Angelelli, Enrico (*with* Speranza, Maria Grazia; Tuza, Zsolt) Semi-on-line scheduling on two parallel processors with an upper bound on the items. (English summary) **2004i:90031**
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Awerbuch, Baruch (*with* Azar, Yossi; Regev, Oded) Maximizing job benefits on-line. (English summary) **2004i:90032**
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Bals, Helge *see* **Albers, Susanne**, (**2004a:68002**)
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Becchetti, Luca (*with* Leonardi, Stefano; Muthukrishnan, S. Muthu) Average stretch without migration. (English summary) **2004j:90038**
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Bertsimas, Dimitris (*with* Perevalov, Eugene) Fluid models for parallel processor allocation. (English summary) (*see* **2004b:90006**)
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Blelloch, Guy E. (*with* Cheng, Perry; Gibbons, Phillip B.) Scalable room synchronizations. (English summary) **2004i:68154**
Blum, Avrim (*with* Chawla, Shuchi; Kalai, Adam) Static optimality and dynamic search-optimality in lists and trees. (English summary) **2004e:68016**
Bousquet, Olivier (*with* Warmuth, Manfred K.) Tracking a small set of experts by mixing past posteriors. (English summary) (*see* **2004j:68005**)
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Bouyer, Patricia (*with* Petit, Antoine) A Kleene/Büchi-like theorem for clock languages. (English summary) **2004d:68069**
Brehob, Mark (*with* Enbody, Richard; Torng, Eric; Wagner, Stephen K.) On-line restricted caching. (English summary) **2004j:68024**
Brodsky, Alex (*with* Pippenger, Nicholas) Characterizations of 1-way quantum finite automata. (English summary) **2004h:68037**
Brosenne, Henrik (*with* Homeister, Matthias; Waack, Stephan) Characterizing the complexity of Boolean functions represented by well-structured graph-driven parity-FBDDs. (English summary) **2004a:68023**
Bruda, Stefan D. (*with* Akl, Selim G.) Pursuit and evasion on a ring: an infinite hierarchy for parallel real-time systems. (English summary) **2004c:68030**
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Carlini, Alberto *see* **Sasaki, Masahide, 2004a:81064**
Castellanos, Juan (*with* Martín-Vide, Carlos; Mitrana, Victor; Sempere, José M.) Networks of evolutionary processors. (English summary) **2004e:68029**
Cesa-Bianchi, Nicolò (*with* Lugosi, Gábor) Potential-based algorithms in on-line prediction and game theory. (English summary) (*see* **2004j:68005**)
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Chandrasekaran, Ramaswamy *see* **Rudin, John F., III, 2004h:90026**
Charatonik, Witold (*with* Dal Zilio, Silvano; Gordon, Andrew D.; Mukhopadhyay, Supratik; Talbot, Jean-Marc) Model checking mobile ambients. (English summary) **2004i:68134**
Chawla, Shuchi *see* **Blum, Avrim et al., 2004e:68016**
Chen, Yifeng A fixpoint theory for non-monotonic parallelism. (English summary) (*see* **2004j:68008**)
— A fixpoint theory for non-monotonic parallelism. (English summary) **2004j:68109**
Cheng, Chieng-Fu *see* **Wang, Shu-Ching, 2004j:68033**
Cheng, Perry *see* **Blelloch, Guy E. et al., 2004i:68154**
Chin, Francis Y. L. (*with* Fung, Stanley P. Y.) Online scheduling with partial job values: does timesharing or randomization help? (English summary) **2004f:90044**
Chou, Cheng-Feng Mabel (*with* Queyranne, Maurice; Simchi-Levi, David) The asymptotic performance ratio of an on-line algorithm for uniform parallel machine scheduling with release dates. (English summary) **2004j:90039**
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Cohen, Edith (*with* Kaplan, Haim; Zwick, Uri) Connection caching: model and algorithms. (English summary) **2004f:68176**
Crammer, Koby (*with* Singer, Yoram) Ultraconservative online algorithms for multiclass

problems. (English summary) (*see* **2004j:68005**)
Csuhaj-Varjú, Erzsébet *see* **ter Beek, Maurice H. et al., 2004k:68081**
Dal Zilio, Silvano *see* **Charatonik, Witold et al., 2004i:68134**
Dasgupta, Bhaskar[1] (*with* Palis, Michael A.) Online real-time preemptive scheduling of jobs with deadlines on multiple machines. (English summary) **2004j:90040**
Desharnais, Josée (*with* Panangaden, Prakash) Continuous stochastic logic characterizes bisimulation of continuous-time Markov processes. (English summary) **2004f:68091**
Devillers, Raymond (*with* Klaudel, Hanna; Koutny, Maciej; Pommereau, Franck) Asynchronous box calculus. (English summary) **2004g:68120**
Dima, Cătălin Distributed real-time automata. (English summary) (*see* **2004i:00018**)
Dinitz, Yefim (*with* Moran, Shlomo; Rajsbaum, Sergio) Exact communication costs for consensus and leader in a tree. (English summary) **2004m:68010**
Doberkat, Ernst-Erich The demonic product of probabilistic relations. (English summary) **2004a:68107**
Dolev, Shlomi (*with* Rajsbaum, Sergio) Stability of long-lived consensus. (English summary) **2004e:68010**
Downey, Rodney G. (*with* Fortnow, Lance) Uniformly hard languages. (English summary) **2004b:68053**
Enbody, Richard *see* **Brehob, Mark et al., 2004j:68024**
Epstein, Leah On variable sized vector packing. (English summary) **2004e:90054**
— (*with* Favrholdt, Lene M.) On-line maximizing the number of items packed in variable-sized bins. (English summary) **2004d:90038**
— (*with* Imreh, Csanád; van Stee, Rob) More on weighted servers or FIFO is better than LRU. (English summary) **2004g:68058**
— *see also* **Chrobak, Marek et al.**
Favrholdt, Lene M. *see* **Epstein, Leah, 2004d:90038**
Feder, Tomás (*with* Motwani, Rajeev; Panigrahy, Rina; Olston, Chris; Widom, Jennifer) Computing the median with uncertainty. (English summary) **2004b:68189**
Feinberg, Joshua *see* **Ben-Hur, Asa et al., 2004c:90020**
Fernau, Henning Parallel grammars: a phenomenology. (English summary) **2004e:68047**
Feuerstein, Esteban (*with* Mydlarz, Marcelo; Stougie, Leen) On-line multi-threaded scheduling. (English summary) **2004i:68255**
Fishman, Shmuel *see* **Ben-Hur, Asa et al., 2004c:90020**
Flocchini, Paola (*with* Roncato, Alessandro; Santoro, Nicola) Backward consistency and sense of direction in advanced distributed systems. (English summary) **2004j:68188**
Fortnow, Lance *see* **Downey, Rodney G., 2004b:68053**
(Fraigniaud, Pierre) *see* **ACM Symposium: Parallel Algorithms and Architectures**
Frederiksen, Jens S. (*with* Larsen, Kim S.; Noga, John; Uthaisombut, Patchrawat) Dynamic TCP acknowledgment in the LogP model. (English summary) **2004f:68192**
Freund, Ari *see* **Bar-Noy, Amotz et al., 2004d:90006**
Freund, Yoav Predicting a binary sequence almost as well as the optimal biased coin. (English summary) **2004c:68058**
Fung, Stanley P. Y. *see* **Chin, Francis Y. L., 2004f:90044**
Gaujal, Bruno (*with* Haar, Stefan; Mairesse, Jean) Blocking a transition in a free choice net and what it tells about its throughput. (English summary) **2004c:68098**
Geffert, Viliam (*with* Popély, Norbert) Refinement of the alternating space hierarchy. (English summary) **2004j:68063**
Gibbons, Phillip B. *see* **Blelloch, Guy E. et al., 2004i:68154**
Giesl, Jürgen (*with* Zantema, Hans) Liveness in rewriting. (English summary)
Girault-Beauquier, Danièle On probabilistic timed automata. (English summary) **2004c:68082**
Girlich, Eberhard (*with* Kovalev, M. M.; Kotov, Vladimir) An algorithm for the real-time scheduling problem with supplementary information. (Russian. Russian summary) **2004m:68015**
Goldman, Alfredo (*with* Mounie, Gregory; Trystram, Denis) 1-optimality of static BSP computations: scheduling independent chains as a case study. (English summary) **2004h:68013**
Goldwasser, Michael H. Patience is a virtue: the effect of slack on competitiveness for admission control. (English summary) **2004m:90042**
— (*with* Kerbikov, Boris) Admission control with immediate notification. (English summary) **2004j:68039**
Gordon, Andrew D. *see* **Charatonik, Witold et al., 2004i:68134**
Gori, Marco (*with* Meer, Klaus) A step towards a complexity theory for analog systems. (English summary) **2004k:68046**
Gurevich, Yuri (*with* Tillmann, Nikolai) Partial updates: exploration. (English summary) **2004g:68033**
— *see also* **Blass, Andreas, 2004i:68049**
Haar, Stefan *see* **Gaujal, Bruno et al., 2004c:68098**
Halperin, Dan *see* **Linhart, Chaim et al., 2004k:52032**
Hanniel, Iddo *see* **Linhart, Chaim et al., 2004k:52032**
Har-Peled, Sariel *see* **Linhart, Chaim et al., 2004k:52032**
Haveraaen, Magne *see* **Anderlik, Alexa, 2004m:68145**
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— (*with* Jiang, Yiwei) Optimal algorithms for semi-online preemptive scheduling problems on two uniform machines. (English summary) **2004k:90042**
— *see also* **Cai, Sheng Yi**
Hélary, Jean-Michel *see* **Baldoni, Roberto et al., 2004m:68009**
Henzinger, Monika R. (*with* Leonardi, Stefano) Scheduling multicasts on unit-capacity trees and meshes. (English summary) **2004f:90049**
Herbster, Mark Learning additive models online with fast evaluating kernels. (English summary) (*see* **2004j:68005**)
Hirvensalo, Mika (*with* Seibert, Sebastian) Lower bounds for Las Vegas automata by information theory. (English summary) **2004f:68078**
Homeister, Matthias *see* **Brosenne, Henrik et al., 2004a:68023**
Hunsaker, Brady (*with* Kleywegt, Anton J.; Savelsbergh, Martin W. P.; Tovey, Craig A.) Optimal online algorithms for minimax resource scheduling. (English summary) **2004k:68069**
Hwang, Gwan-Hwan An efficient algorithm for communication set generation of data parallel programs with block-cyclic distribution. (English summary)
Igarashi, Yoshihide *see* **Omori, Michiko et al., 2004b:68118** *and* **Takamura, Masataka**
Impagliazzo, Russell Hardness as randomness: a survey of universal derandomization. (English summary) **2004a:68030**
Imreh, Csanád *see* **Epstein, Leah et al., 2004g:68058**
Irani, Sandy (*with* Leung, Vitus) Scheduling with conflicts on bipartite and interval graphs. (English summary) **2004i:68256**
Iwama, Kazuo (*with* Taketomi, Shiro) Removable online knapsack problems. (English summary)
Jiang, Yiwei *see* **He, Yong**[1], **2004k:90042**
(Kaklamanis, Christos) *see* **ACM Symposium: Parallel Algorithms and Architectures**
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Kalnishkan, Yu. A. (*with* Vyugin, Mikhail V.) On the absence of predictive complexity for some games. (English summary)
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— *see also* **Special Issue: On-line algorithm**
Kaplan, Haim *see* **Cohen, Edith et al., 2004f:68176**
Karlin, Anna R. (*with* Kenyon, Claire; Randall, Dana) Dynamic TCP acknowledgment and other stories about $e/(e-1)$. (English summary) **2004e:68120**
Kazanavičius, Egidijus The evaluation and design methodology for real time systems. (English and Lithuanian summaries)
Kenyon, Claire *see* **Karlin, Anna R. et al., 2004e:68120**
Kerbikov, Boris *see* **Goldwasser, Michael H., 2004j:68039**
Klaudel, Hanna *see* **Devillers, Raymond et al., 2004g:68120**
Klein, Andreas[1] *see* **Buchholz, Thomas et al., 2004k:68117**
Kleywegt, Anton J. *see* **Hunsaker, Brady et al., 2004k:68069**
Koga, Hisashi Jitter regulation in an Internet router with delay constraint. (English summary) **2004i:68257**
Koo, Chiu-Yuen (*with* Lam, Tak Wah; Ngan, Tsuen-Wan; To, Kar-Keung) Competitive deadline scheduling via additional or faster processors. (English summary) **2004i:68258**
Kotov, Vladimir *see* **Girlich, Eberhard et al., 2004m:68015**
Koutny, Maciej *see* **Devillers, Raymond et al., 2004g:68120**
Kovalev, M. M. *see* **Girlich, Eberhard et al., 2004m:68015**
Krumke, Sven Oliver (*with* de Paepe, Willem E.; Poensgen, Diana; Stougie, Leen) News from the online traveling repairman. (English summary) **2004c:68170**
Kuske, Dietrich (*with* Meinecke, Ingmar) Branching automata with costs—a way of reflecting parallelism in costs. (English summary) (*see* **2004j:68014**)
Kutrib, Martin *see* **Buchholz, Thomas et al., 2004k:68117**
Ladner, Richard E. *see* **Bar-Noy, Amotz**
Lam, Tak Wah *see* **Koo, Chiu-Yuen et al., 2004i:68258** *and* **Chan, Wun-Tat et al., (2004j:68002)**
Landa, Shimon *see* **Bar-Noy, Amotz et al., 2004d:90006**
Lanotte, Ruggero (*with* Maggiolo-Schettini, Andrea; Tini, Simone) ε-transitions in concurrent timed automata. **2004j:68099**
La Poutré, Johannes A. *see* **van Stee, Rob, 2004i:90058**
Larsen, Kim S. *see* **Frederiksen, Jens S. et al., 2004f:68192**
Leonardi, Stefano *see* **Henzinger, Monika R., 2004f:90049** *and* **Becchetti, Luca et al., 2004j:90038**
Leung, Vitus *see* **Irani, Sandy, 2004i:68256**
Linhart, Chaim (*with* Halperin, Dan; Hanniel, Iddo; Har-Peled, Sariel) An experimental study of on-line methods for zone construction in arrangements of lines in the plane. (English summary) **2004k:52032**
Liu, Yun Sheng (*with* He, Bing; Ran, Long Bo) A deferred rate-monotonic scheduling algorithm and schedulability analysis for hybrid real-time transactions. (Chinese. English and Chinese summaries)
Long, Philip M. *see* **Abe, Naoki et al., 2004i:68091**
López-Ortiz, Alejandro (*with* Schuierer, Sven) Searching and on-line recognition of star-shaped polygons. (English summary) **2004h:68146**
— (*with* Schuierer, Sven) On-line parallel heuristics, processor scheduling and robot searching under the competitive framework. (English summary) **2004i:68220**
Lugosi, Gábor *see* **Cesa-Bianchi, Nicolò, (2004j:68005)**
Lynch, Nancy (*with* Segala, Roberto; Vaandrager, Frits) Hybrid I/O automata. (English summary) **2004h:68084**
Ma, Guo Kai (*with* Wang, Xin Rang; Wang, Peng; Zang, Bin Yu; Zhu, Chuan Qi) Increase parallel granularity and data locality by unimodular metrics. (Chinese. English and Chinese summaries)
Maggiolo-Schettini, Andrea *see* **Lanotte, Ruggero et al., 2004j:68099**
Mairesse, Jean *see* **Gaujal, Bruno et al., 2004c:68098**
Maloof, Marcus A. (*with* Michalski, Ryszard S.) Incremental learning with partial instance memory. (English summary)
Martín-Vide, Carlos *see* **Castellanos, Juan et al., 2004e:68029**
Mastrolilli, Monaldo Scheduling to minimize max flow time: offline and online algorithms. (English summary)
Mateescu, Alexandru Routes and trajectories. (English summary) (*see* **2004h:68006**)
Meer, Klaus *see* **Gori, Marco, 2004k:68046**
Meinecke, Ingmar *see* **Kuske, Dietrich, (2004j:68014)**
Merkle, Wolfgang *see* **Ambos-Spies, Klaus et al., 2004g:03063**
Mettu, Ramgopal R. (*with* Plaxton, C. Greg) The online median problem. (English summary) **2004i:68249**
(Meyer auf der Heide, Friedhelm) *see* **ACM Symposium: Parallel Algorithms and Architectures**
Michalski, Ryszard S. *see* **Maloof, Marcus A.**
Mitrana, Victor *see* **Castellanos, Juan et al., 2004e:68029** *and* **ter Beek, Maurice H. et al., 2004k:68081**

Miyazawa, F. K. (*with* Wakabayashi, Y.) Cube packing. (English summary) **2004d:68185**
Mohalik, Swarup (*with* Ramanujam, Ramaswamy) Distributed automata in an assumption-commitment framework. (English summary) **2004f:68099**
Montoya-Torres, Jairo R. Competitive analysis of a better on-line algorithm to minimize total completion time on a single-machine. (English summary) **2004f:90053**
Moran, Shlomo *see* **Dinitz, Yefim et al., 2004m:68010**
Motegi, Kazuhiro *see* **Omori, Michiko et al., 2004b:68118**
Motwani, Rajeev *see* **Feder, Tomás et al., 2004b:68189**
Mounie, Gregory *see* **Goldman, Alfredo et al., 2004h:68013**
Mukhopadhyay, Supratik *see* **Charatonik, Witold et al., 2004i:68134**
Muthukrishnan, S. Muthu *see* **Becchetti, Luca et al., 2004j:90038**
Mydlarz, Marcelo *see* **Feuerstein, Esteban et al., 2004i:68255**
Naor, Joseph *see* **Bar-Noy, Amotz et al., 2004d:90006**
Narayanan, Harihar *see* **Patkar, Sachin B., 2004a:05153**
Neven, Frank (*with* Schwentick, Thomas) On the power of tree-walking automata. (English summary) **2004g:03062**
Ngan, Tsuen-Wan *see* **Koo, Chiu-Yuen et al., 2004i:68258**
Noga, John *see* **Frederiksen, Jens S. et al., 2004f:68192** *and* **Chrobak, Marek et al.**
Obokata, Kumiko *see* **Omori, Michiko et al., 2004b:68118**
Okhotin, Alexander The hardest linear conjunctive language. (English summary) **2004c:68062**
Olston, Chris *see* **Feder, Tomás et al., 2004b:68189**
Omori, Michiko (*with* Obokata, Kumiko; Motegi, Kazuhiro; Igarashi, Yoshihide) Analysis of some lockout avoidance algorithms for the k-exclusion problem. (English summary) **2004b:68118**
de Paepe, Willem E. *see* **Krumke, Sven Oliver et al., 2004c:68170**
Palis, Michael A. On the competitiveness of online real-time scheduling with rate of progress guarantees. (English summary)
— *see also* **Dasgupta, Bhaskar[1], 2004j:90040**
Panangaden, Prakash *see* **Desharnais, Josée, 2004f:68091**
Panigrahy, Rina *see* **Feder, Tomás et al., 2004b:68189**
Patkar, Sachin B. (*with* Narayanan, Harihar) Fast on-line/off-line algorithms for optimal reinforcement of a network and its connections with principal partition. (English summary) **2004a:05153**
Perevalov, Eugene *see* **Bertsimas, Dimitris,** (**2004b:90006**)
Pérez Jiménez, Mario J. (*with* Sancho Caparrini, Fernando) A formalization of transition P systems. (English summary) **2004j:68059**
Petit, Antoine *see* **Bouyer, Patricia, 2004d:68069**
Pippenger, Nicholas *see* **Brodsky, Alex, 2004h:68037**
Plaxton, C. Greg *see* **Mettu, Ramgopal R., 2004i:68249**
Poensgen, Diana *see* **Krumke, Sven Oliver et al., 2004c:68170**
Pommereau, Franck *see* **Devillers, Raymond et al., 2004g:68120**
Popély, Norbert *see* **Geffert, Viliam, 2004j:68063**
Pruhs, Kirk R. *see* **Kalyanasundaram, Bala et al., 2004i:90043** *and* **Special Issue: On-line algorithm**
Queyranne, Maurice *see* **Chou, Cheng-Feng Mabel et al., 2004j:90039**
Rajsbaum, Sergio *see* **Dolev, Shlomi, 2004e:68010** *and* **Dinitz, Yefim et al., 2004m:68010**
Ramanujam, Ramaswamy *see* **Mohalik, Swarup, 2004f:68099**
Ran, Long Bo *see* **Liu, Yun Sheng et al.**
Randall, Dana *see* **Karlin, Anna R. et al., 2004e:68120**
Raynal, Michel *see* **Baldoni, Roberto et al., 2004m:68009**
Regev, Oded *see* **Awerbuch, Baruch et al., 2004i:90032**
Reimann, Jan *see* **Ambos-Spies, Klaus et al., 2004g:03063**
Ren, Feng *see* **He, Yong[1] et al.**
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Rudin, John F., III (*with* Chandrasekaran, Ramaswamy) Improved bounds for the online scheduling problem. (English summary) **2004h:90026**
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Santoro, Nicola *see* **Flocchini, Paola et al., 2004j:68188**
Sasaki, Masahide (*with* Carlini, Alberto) Quantum learning and universal quantum matching machine. (English summary) **2004a:81064**
Savelsbergh, Martin W. P. *see* **Hunsaker, Brady et al., 2004k:68069**
Scheffer, Tobias (*with* Wrobel, Stefan) Finding the most interesting patterns in a database quickly by using sequential sampling. (English summary) **2004d:68139**
Schuierer, Sven *see* **López-Ortiz, Alejandro, 2004h:68146** *and* **2004i:68220**
Schulman, Leonard J. *see* **Ambainis, Andris et al., 2004k:94016**
Schwentick, Thomas *see* **Neven, Frank, 2004g:03062**
Segala, Roberto *see* **Lynch, Nancy et al., 2004h:68084**
Seibert, Sebastian *see* **Hirvensalo, Mika, 2004f:68078**
Seiden, Steven S. (*with* van Stee, Rob) New bounds for multidimensional packing. (English summary) **2004d:68186**
Sempere, José M. *see* **Castellanos, Juan et al., 2004e:68029**
Sgall, Jiří *see* **Chrobak, Marek et al.**
Shachnai, Hadas (*with* Tamir, Tami) Tight bounds for online class-constrained packing. (English summary) **2004a:68045**
Siegelmann, Hava T. *see* **Ben-Hur, Asa et al., 2004c:90020**
Simchi-Levi, David *see* **Chou, Cheng-Feng Mabel et al., 2004j:90039**
Singer, Yoram *see* **Crammer, Koby,** (**2004j:68005**)
Speranza, Maria Grazia *see* **Angelelli, Enrico et al., 2004i:90031**
van Stee, Rob (*with* La Poutré, Johannes A.) Partial servicing of on-line jobs. (English summary) **2004i:90058**
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Stougie, Leen *see* **Krumke, Sven Oliver et al., 2004c:68170** *and* **Feuerstein, Esteban et al., 2004i:68255**
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Taketomi, Shiro *see* **Iwama, Kazuo**
Takimoto, Eiji (*with* Warmuth, Manfred K.) Path kernels and multiplicative updates. (English summary) (*see* **2004j:68006**)
Talbot, Jean-Marc *see* **Charatonik, Witold et al., 2004i:68134**
Tamir, Tami *see* **Shachnai, Hadas, 2004a:68045**
Tan, Zhi Yi *see* **He, Yong[1] et al.**
Tangui, Lenaik *see* **Baldoni, Roberto et al., 2004m:68009**
Ta-Shma, Amnon *see* **Ambainis, Andris et al., 2004k:94016**
Tchier, F. Demonic input-output relations of compound diagrams. (English summary) **2004i:68034**
Terwijn, Sebastiaan A. *see* **Ambos-Spies, Klaus et al., 2004g:03063**
Tichý, Tomáš *see* **Chrobak, Marek et al.**
Tillmann, Nikolai *see* **Gurevich, Yuri, 2004g:68033**
Ting, Hing-Fung *see* **Chan, Wun-Tat et al.,** (**2004j:68002**)
Tini, Simone *see* **Lanotte, Ruggero et al., 2004j:68099**
To, Kar-Keung *see* **Koo, Chiu-Yuen et al., 2004i:68258**
Torng, Eric *see* **Brehob, Mark et al., 2004j:68024**
Tovey, Craig A. *see* **Hunsaker, Brady et al., 2004k:68069**
Trystram, Denis *see* **Goldman, Alfredo et al., 2004h:68013**
Tuza, Zsolt *see* **Angelelli, Enrico et al., 2004i:90031**
Uthaisombut, Patchrawat *see* **Frederiksen, Jens S. et al., 2004f:68192**
Vaandrager, Frits *see* **Lynch, Nancy et al., 2004h:68084**
Vakhaniya, Nodari N. *see* **Chrobak, Marek et al.**
Varman, Peter J. *see* **Kallahalla, Mahesh**
Vazirani, Umesh V. *see* **Ambainis, Andris et al., 2004k:94016**
Velauthapillai, Mahendran *see* **Kalyanasundaram, Bala et al., 2004i:90043**
Vyugin, Mikhail V. *see* **Kalnishkan, Yu. A.,** (**2004j:68006**)
Waack, Stephan *see* **Brosenne, Henrik et al., 2004a:68023**
Wabenhorst, Axel Induction in the timed interval calculus. (English summary) **2004f:68101**
Wagner, Stephen K. *see* **Brehob, Mark et al., 2004j:68024**
Wakabayashi, Y. *see* **Miyazawa, F. K., 2004d:68185**
Wang, Farn (*with* Yen, Hsu-Chun) Timing parameter characterization of real-time systems. (English summary) (*see* **2004j:68014**)
Wang, Peng *see* **Ma, Guo Kai et al.**
Wang, Shu-Ching (*with* Cheng, Chieng-Fu) Eventually dual failure agreement. (English summary) **2004j:68033**
Wang, Xin Rang *see* **Ma, Guo Kai et al.**
Warmuth, Manfred K. *see* **Bousquet, Olivier, 2004d:68135**; (**2004j:68005**) *and* **Takimoto, Eiji,** (**2004j:68006**)
Widom, Jennifer *see* **Feder, Tomás et al., 2004b:68189**
Wigderson, Avi *see* **Ambainis, Andris et al., 2004k:94016**
Wong, Prudence W. H. *see* **Chan, Wun-Tat et al.,** (**2004j:68002**)
Wrobel, Stefan *see* **Scheffer, Tobias, 2004d:68139**
Yamane, Satoshi Probabilistic timed bisimulation relation and its preservation of probabilistic timed CTL formulas of real-time systems with discrete probability distributions. (Japanese. English and Japanese summaries)
Yen, Hsu-Chun *see* **Wang, Farn,** (**2004j:68014**)
Žák, Stanislav A sharp separation of sublogarithmic space complexity classes. (English summary) **2004j:68067**
Zang, Bin Yu *see* **Ma, Guo Kai et al.**
Zantema, Hans *see* **Giesl, Jürgen**
Zhu, Chuan Qi *see* **Ma, Guo Kai et al.**
Zwick, Uri *see* **Cohen, Edith et al., 2004f:68176**

Items listed otherwise than by author

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Parallel Algorithms and Architectures ★ ACM Symposium on Parallel Algorithms and Architectures.
Crete ★ ACM Symposium on Parallel Algorithms and Architectures.
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68Q15 Complexity classes (hierarchies, relations among complexity classes, etc.) [see also 03D15, 68Q17, 68Q19]

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Allender, Eric (*with* McCartin, Catherine) Basic complexity. (English summary) (*see* **2004d:68050**)
— (*with* Arvind, V.; Mahajan, Meena) Arithmetic complexity, Kleene closure, and formal power series. (English summary) **2004d:68040**
— *see also* **Hesse, William et al., 2004b:68057**
Amir, Amihood (*with* Beigel, Richard; Gasarch, William) Some connections between bounded query classes and non-uniform complexity. (English summary) **2004h:68042**
Arora, Sanjeev How NP got a new definition: a survey of probabilistically checkable proofs. (English summary) **2004a:68028**
Arvind, V. *see* **Allender, Eric et al., 2004d:68040**
Barak, Boaz A probabilistic-time hierarchy theorem for "slightly non-uniform" algorithms. (English summary) **2004m:68056**
Barbanchon, Régis (*with* Grandjean, Etienne) Local problems, planar local problems and linear time. (English summary) **2004m:68057**
Barrington, David A. Mix *see* **Hesse, William et al., 2004b:68057**
Beigel, Richard *see* **Amir, Amihood et al., 2004h:68042**
Ben-Amram, Amir M. Tighter constant-factor time hierarchies. (English summary) **2004d:68041**
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Buhrman, Harry (*with* Tromp, John; Vitányi, Paul M. B.) Time and space bounds for reversible simulation (extended abstract). (English summary)
— (*with* de Wolf, Ronald) Quantum zero-error algorithms cannot be composed. (English summary) **2004d:68042**
Bürgisser, Peter (*with* Cucker, Felipe) Counting complexity classes for numeric computations. I. Semilinear sets. (English summary) **2004k:68049**
Cai, Jin-Yi (*with* Charles, Denis; Pavan, A.; Sengupta, Samik) On higher Arthur-Merlin classes. (English summary)
— (*with* Watanabe, Osamu[2]) Relativized collapsing between BPP and PH under stringent oracle access. (English summary) **2004m:68058**
Cai, Liming (*with* Juedes, David) Subexponential parameterized algorithms collapse the W-hierarchy. (English summary)
Campagnolo, Manuel Lameiras The complexity of real recursive functions. (English summary) **2004m:68059**
Charles, Denis *see* **Cai, Jin-Yi et al.**
Chen, Yijia (*with* Flum, Jörg) Machine characterizations of the classes of the W-hierarchy. (English summary) **2004m:68060**
Crasmaru, Marcel *see* **Aida, Shin et al., 2004m:68054** *and* **2004m:68055**
Cucker, Felipe *see* **Bürgisser, Peter, 2004k:68049**
Dai, Jack Jie (*with* Lathrop, James I.; Lutz, Jack H.; Mayordomo, Elvira) Finite-state dimension. (English summary)
— A stronger Kolmogorov zero-one law for resource-bounded measure. (English summary) **2004d:68043**
Demaine, Erik D. (*with* López-Ortiz, Alejandro; Munro, J. Ian) On universally easy classes for NP-complete problems. (English summary) **2004d:68044**
Deng, Xiao-Tie (*with* Lee, Chan Hee; Zhao, Yunlei; Zhu, Hong[1]) $(2 + f(n))$-SAT and its properties. (English summary)
De Santis, Alfredo (*with* Di Crescenzo, Giovanni; Persiano, Giuseppe) Randomness-optimal characterization of two NP proof systems. (English summary) **2004m:68061**
Díaz, Josep PRIMES $\in$ P (without assumptions). (English summary) **2004b:68052**
Di Crescenzo, Giovanni *see* **De Santis, Alfredo et al., 2004m:68061**
Downey, Rodney G. (*with* Fortnow, Lance) Uniformly hard languages. (English summary) **2004b:68053**
— *see also* **Aspects of complexity, 2004d:68050**
Ďuriš, Pavol (*with* Mañuch, Ján) On the computational complexity of infinite words. (English summary) **2004c:68037**
Fellows, Michael R. Parameterized complexity: new developments and research frontiers. (*see* **2004d:68050**)
Fenner, Stephen A. Counting complexity and quantum computation. (English summary) **2004h:68043**
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Gál, Anna A characterization of span program size and improved lower bounds for monotone span programs. (English summary) **2004g:68046**
Gale, Amy *see* **Welsh, D. J. A., (2004d:68050)**
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Gasarch, William *see* **Amir, Amihood et al., 2004h:68042**
Geffert, Viliam (*with* Popély, Norbert) Refinement of the alternating space hierarchy. (English summary) **2004j:68063**
Glaßer, Christian (*with* Wechsung, Gerd) Relativizing function classes. (English summary) **2004g:68047**
Goldreich, Oded (*with* Vadhan, Salil; Wigderson, Avi) On interactive proofs with a laconic prover (extended abstract). (English summary)
— (*with* Vadhan, Salil; Wigderson, Avi) On interactive proofs with a laconic prover. (English summary) **2004k:68050**
Goldwasser, Shafi On the work of Madhu Sudan: the 2002 Nevanlinna Prize winner. **2004e:68034**
Grandjean, Etienne (*with* Schwentick, Thomas) Machine-independent characterizations and complete problems for deterministic linear time. (English summary) **2004b:68054**
— *see also* **Barbanchon, Régis, 2004m:68057**
Grohe, Martin *see* **Flum, Jörg, 2004m:68062**
Grolmusz, Vince (*with* Tardos, Gábor) A note on: "Non-deterministic communication complexity with few witnesses" [J. Comput. System Sci. **49** (1994), no. 2, 247–257; MR 96c:68065] by M. Karchmer, I. Newman, M. Saks and A. Wigderson. (English summary) **2004d:68046**
Gutfreund, Dan *see* **Ben-Or, Michael, 2004g:68045**
Håstad, Johan (*with* Wigderson, Avi) Simple analysis of graph tests for linearity and PCP. (English summary) **2004b:68055**
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— (*with* Hempel, Harald) P-immune sets with holes lack self-reducibility properties. (English summary) **2004b:68056**
Hempel, Harald *see* **Hemaspaandra, Lane A., 2004b:68056**
Hesse, William (*with* Allender, Eric; Barrington, David A. Mix) Uniform constant-depth threshold circuits for division and iterated multiplication. (English summary) **2004b:68057**
(Hirschfeldt, Denis R.) *see* **Aspects of complexity, 2004d:68050**
Hitchcock, John M. (*with* Lutz, Jack H.) Why computational complexity requires stricter martingales. (English summary)
— Correspondence principles for effective dimensions. (English summary)
— Gales suffice for constructive dimension. (English summary) **2004a:68029**
Hofmann, Martin Linear types and non-size-increasing polynomial time computation. (English summary) **2004d:68047**
Homan, Christopher M. (*with* Thakur, Mayur) One-way permutations and self-witnessing languages. (English summary) **2004g:68049**
Homer, Steve *see* **Fortnow, Lance**
Høyer, Peter (*with* de Wolf, Ronald) Improved quantum communication complexity bounds for disjointness and equality. (English summary) **2004m:68064**
Hromkovič, Juraj Communication protocols—an exemplary study of the power of randomness. (English summary) **2004b:68058**
— (*with* Schnitger, Georg) Nondeterministic communication with a limited number of advice bits. (English summary) **2004j:68064**
Impagliazzo, Russell Hardness as randomness: a survey of universal derandomization. (English summary) **2004a:68030**
— (*with* Kabanets, Valentine; Wigderson, Avi) In search of an easy witness: exponential time vs. probabilistic polynomial time. (English summary) **2004h:68044**
Jain, Rahul (*with* Radhakrishnan, Jaikumar; Sen, Pranab) The quantum communication complexity of the pointer chasing problem: the bit version. (English summary) **2004k:68051**
Jenner, Birgit (*with* Köbler, Johannes; McKenzie, Pierre; Torán, Jacobo) Completeness results for graph isomorphism. (English summary) **2004c:68038**
Jones, Neil D. Computability and complexity from a programming perspective. (English summary) **2004i:68067**
Juedes, David *see* **Cai, Liming**
Jukna, Stasys On the minimum number of negations leading to super-polynomial savings. (English summary) **2004j:68065**
Kabanets, Valentine *see* **Impagliazzo, Russell et al., 2004h:68044**
Karakostas, George (*with* Lipton, Richard J.; Viglas, Anastasios) On the complexity of intersecting finite state automata and NL versus NP. (English summary) **2004c:68039**
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Köbler, Johannes (*with* Messner, Jochen; Torán, Jacobo) Optimal proof systems imply complete sets for promise classes. (English summary) **2004m:68065**
— *see also* **Jenner, Birgit et al., 2004c:68038**
Körner, Heiko On minimizing cover automata for finite languages in $O(n \log n)$ time. (English summary) (*see* **2004j:68013**)
Kosub, Sven *see* **Galota, Matthias et al., 2004d:68045** *and* **Hemaspaandra, Lane A. et al.**
Koucký, Michal Log-space constructible universal traversal sequences for cycles of length $O(n^{4.03})$. (English summary) **2004a:68031**
Krause, Matthias (*with* Lucks, Stefan) Pseudorandom functions in TC^0 and cryptographic limitations to proving lower bounds. (English summary) **2004c:68040**
— On the computational power of Boolean decision lists. (English summary) **2004m:68066**
Kurtz, Stuart A. *see* **Fenner, Stephen A. et al., 2004e:68033**
Lathrop, James I. *see* **Dai, Jack Jie et al.**
Lee, Chan Hee *see* **Deng, Xiao-Tie et al.**
van Leeuwen, Jan *see* **Wiedermann, Jiří, 2004m:68068**
Li, Lide *see* **Fenner, Stephen A. et al., 2004e:68033**
Lipton, Richard J. *see* **Karakostas, George et al., 2004c:68039**
Liśkiewicz, Maciej (*with* Ogihara, Mitsunori; Toda, Seinosuke) The complexity of counting self-avoiding walks in subgraphs of two-dimensional grids and hypercubes. (English summary) **2004c:68041**
López-Ortiz, Alejandro *see* **Demaine, Erik D. et al., 2004d:68044**
Lucks, Stefan *see* **Krause, Matthias, 2004c:68040**
Lutz, Jack H. Dimension in complexity classes. (English summary) **2004h:68045**
— *see also* **Hitchcock, John M.** *and* **Dai, Jack Jie et al.**
Mahajan, Meena *see* **Allender, Eric et al., 2004d:68040**
Maller, Michael (*with* Whitehead, Jennifer) P $\neq$ NC over the p-adic numbers. (English summary) **2004c:68042**
Mañuch, Ján *see* **Ďuriš, Pavol, 2004c:68037**
Maurel, François Nondeterministic light logics and NP-time. (English summary) **2004k:68052**
Mayordomo, Elvira *see* **Dai, Jack Jie et al.**
McCartin, Catherine Parameterized counting problems. (English summary)
— *see also* **Allender, Eric, (2004d:68050)**
McKenzie, Pierre *see* **Jenner, Birgit et al., 2004c:68038**
Messner, Jochen *see* **Köbler, Johannes et al., 2004m:68065**
Miltersen, Peter Bro Derandomizing complexity classes. **2004c:68043**
Mubarakzyanov, R. G. On the capabilities of probabilistic binary programs. (Russian. Russian summary) (*see* **2004e:00008**)
Munro, J. Ian *see* **Demaine, Erik D. et al., 2004d:68044**
(Newman, Ilan) *see* **Grolmusz, Vince, 2004d:68046**
Ogihara, Mitsunori *see* **Beygelzimer, Alina, 2004b:68051** *and* **Liśkiewicz, Maciej et al., 2004c:68041**
Oitavem, Isabel Characterizing NC with tier 0 pointers. (English summary) **2004k:68053**
Okol'nishnikova, E. A. Comparing the sizes of nondeterministic branching read-k-times programs. (English summary)
Pavan, A. (*with* Selman, Alan L.) Bi-immunity separates strong NP-completeness notions. (English summary) **2004m:68067**
— (*with* Selman, Alan L.) Bi-immunity separates strong NP-completeness notions. (English summary) **2004i:68068**
— *see also* **Cai, Jin-Yi et al.**
Persiano, Giuseppe *see* **De Santis, Alfredo et al., 2004m:68061**
Popély, Norbert *see* **Geffert, Viliam, 2004j:68063**
Prunescu, Mihai P $\neq$ NP for all infinite Boolean algebras. (English summary) **2004b:68059**
Pudlák, Pavel On reducibility and symmetry of disjoint NP pairs. (English summary) **2004c:68044**
Radhakrishnan, Jaikumar *see* **Jain, Rahul et al., 2004k:68051**
Raz, Ran P $\neq$ NP, propositional proof complexity, and resolution lower bounds for the weak pigeonhole principle. (English summary) **2004a:68032**

Regan, Kenneth W. Understanding the Mulmuley-Sohoni approach to P vs. NP. (English summary) **2004b:68060**
— *see also* **Aida, Shin et al., 2004m:68054** *and* **2004m:68055**
Rogers, John D. *see* **Fortnow, Lance, 2004m:68063**
Rothe, Jörg (*with* Spakowski, Holger; Vogel, Jörg) Exact complexity of the winner problem for Young elections. (English summary) **2004g:68050**
Rybalov, A. On the P-NP problem over real matrix rings. (English summary) **2004k:68054**
(Saks, Michael) *see* **Grolmusz, Vince, 2004d:68046**
Schnitger, Georg *see* **Hromkovič, Juraj, 2004j:68064**
Schwentick, Thomas *see* **Grandjean, Etienne, 2004b:68054**
Selman, Alan L. *see* **Pavan, A., 2004i:68068** *and* **2004m:68067**
Sen, Pranab *see* **Jain, Rahul et al., 2004k:68051**
Sengupta, Samik *see* **Cai, Jin-Yi et al.**
Spakowski, Holger *see* **Rothe, Jörg et al., 2004g:68050**
Sudan, Madhu Quick and dirty refereeing?
— *see also* **Goldwasser, Shafi, 2004e:68034**
Suzuki, Toshio[2] Forcing complexity: minimum sizes of forcing conditions. (English summary) **2004e:68035**
Tantau, Till Query complexity of membership comparable sets. (English summary) **2004d:68048**
Tardos, Gábor *see* **Grolmusz, Vince, 2004d:68046**
Thakur, Mayur *see* **Homan, Christopher M., 2004g:68049**
Thanh Minh Hoang (*with* Thierauf, Thomas) On the minimal polynomial of a matrix. (English summary)
Thierauf, Thomas *see* **Thanh Minh Hoang**
Toda, Seinosuke *see* **Liśkiewicz, Maciej et al., 2004c:68041**
Torán, Jacobo *see* **Jenner, Birgit et al., 2004c:68038** *and* **Köbler, Johannes et al., 2004m:68065**
Torenvliet, Leen *see* **Hemaspaandra, Lane A., 2004g:68048**
Tromp, John *see* **Buhrman, Harry et al.**
Umans, Christopher Pseudo-random generators for all hardnesses. (English summary) **2004k:68055**
Vadhan, Salil *see* **Goldreich, Oded et al., 2004k:68050**
Valiant, Paul The log-rank conjecture and low degree polynomials. (English summary) **2004j:68066**
Viglas, Anastasios *see* **Karakostas, George et al., 2004c:68039**
Vitányi, Paul M. B. *see* **Buhrman, Harry et al.**
Vogel, Jörg *see* **Rothe, Jörg et al., 2004g:68050**
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Wagner, Klaus W. *see* **Hemaspaandra, Lane A. et al.**
Wang, Jie[1] Complete on average Boolean satisfiability. (English summary) **2004d:68049**
Watanabe, Osamu[2] *see* **Aida, Shin et al., 2004m:68054**; **2004m:68055** *and* **Cai, Jin-Yi, 2004m:68058**
Watrous, John PSPACE has constant-round quantum interactive proof systems. (English summary) **2004c:68045**
Wechsung, Gerd *see* **Glaßer, Christian, 2004g:68047**
Welsh, D. J. A. (*with* Gale, Amy) The complexity of counting problems. (English summary) (*see* **2004d:68050**)
Whitehead, Jennifer *see* **Maller, Michael, 2004c:68042**
Wiedermann, Jiří (*with* van Leeuwen, Jan) Relativistic computers and non-uniform complexity theory. (English summary) **2004m:68068**
Wigderson, Avi *see* **Håstad, Johan, 2004b:68055**; **Grolmusz, Vince, 2004d:68046**; **Impagliazzo, Russell et al., 2004h:68044** *and* **Goldreich, Oded et al., 2004k:68050**
de Wolf, Ronald *see* **Buhrman, Harry, 2004d:68042** *and* **Høyer, Peter, 2004m:68064**
Žák, Stanislav A sharp separation of sublogarithmic space complexity classes. (English summary) **2004j:68067**
Zhao, Yunlei (*with* Zhu, Hong[1]) Present random computations in a uniform way. (English summary) **2004c:68046**
— *see also* **Deng, Xiao-Tie et al.**
Zhu, Hong[1] *see* **Zhao, Yunlei, 2004c:68046** *and* **Deng, Xiao-Tie et al.**

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Aspects of complexity ★ Aspects of complexity. **2004d:68050**
Kaikoura ★ Aspects of complexity. **2004d:68050**
Workshop:
Computability, Complexity, and Computational Algebra ★ Aspects of complexity. **2004d:68050**

Items with secondary classifications in 68Q15

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Ajtai, Miklós Determinism versus nondeterminism for linear time RAMs with memory restrictions. (English summary) **2004a:68033**
Alber, Jochen (*with* Fernau, Henning; Niedermeier, Rolf) Parameterized complexity: exponential speed-up for planar graph problems. (English summary)
Alon, Noga (*with* Shapira, Asaf) Testing satisfiability. (English summary) **2004g:68053**
Ambainis, Andris (*with* Schulman, Leonard J.; Ta-Shma, Amnon; Vazirani, Umesh V.; Wigderson, Avi) The quantum communication complexity of sampling. (English summary) **2004k:94016**
Ambos-Spies, Klaus (*with* Merkle, Wolfgang; Reimann, Jan; Terwijn, Sebastiaan A.) Almost complete sets. (English summary) **2004g:03063**
Armstrong, Derek E. (*with* Jacobson, Sheldon H.) Studying the complexity of global verification for NP-hard discrete optimization problems. (English summary) **2004c:90111**
Beckmann, Arnold (*with* Pollett, Christopher; Buss, Samuel R.) Ordinal notations and well-orderings in bounded arithmetic. (English summary) **2004d:03128a**
— *see also* **Errata: "Ordinal notations and well-orderings in bounded arithmetic", 2004d:03128b**
Bellantoni, Stephen J. *see* **Schwichtenberg, Helmut, 2004f:03082**
Bellia, Marco (*with* Occhiuto, M. Eugenia) N-axioms parallel unification. (English summary) **2004i:68192**
Ben-Amram, Amir M. (*with* Berkman, Omer; Petersen, Holger) Element distinctness on one-tape Turing machines: a complete solution. (English summary) **2004i:68074**
Berkman, Omer *see* **Ben-Amram, Amir M. et al., 2004i:68074**
Beth, Thomas *see* **Wocjan, Pawel et al., 2004j:81043**
Biere, Armin *see* **Plaisted, David A. et al., 2004i:68088**
Bläser, Markus The complexity of bivariate power series arithmetic. (English summary) **2004e:68125**
Bohossian, Vasken (*with* Bruck, Jehoshua) Algebraic techniques for constructing minimal weight threshold functions. (English summary) **2004j:68137**
Bollig, Beate Complexity theoretical results on nondeterministic graph-driven read-once branching programs. (English summary) **2004h:68036**
Bonet, María Luisa (*with* Galesi, Nicola) Degree complexity for a modified pigeonhole principle. (English summary) **2004d:03127**
Bornemann, Folkmar PRIMES is in P, une avancée accessible à "l'homme ordinaire". (French summary) [PRIMES is in P: a breakthrough for "Everyman"]
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Bourgade, Ménard Calculs sur les structures de langage dénombrable. (English and French summaries) [Computations over structures of countable signature] **2004a:03037**
Brosenne, Henrik (*with* Homeister, Matthias; Waack, Stephan) Characterizing the complexity of Boolean functions represented by well-structured graph-driven parity-FBDDs. (English summary) **2004a:68023**
Bruck, Jehoshua *see* **Bohossian, Vasken, 2004j:68137**
Bshouty, Nader H. (*with* Burroughs, Lynn) On the proper learning of axis parallel concepts. (English summary) (*see* **2004j:68006**)
Buhrman, Harry (*with* Fortnow, Lance; Newman, Ilan; Röhrig, Hein) Quantum property testing. (English summary) (*see* **2004a:68002**)
Burroughs, Lynn *see* **Bshouty, Nader H., (2004j:68006)**
Buss, Samuel R. *see* **Beckmann, Arnold et al., 2004d:03128a**; **2004d:03128b** *and* **Errata: "Ordinal notations and well-orderings in bounded arithmetic", 2004d:03128b**
Canetti, Ran (*with* Kilian, Joe; Petrank, Erez; Rosen, Alon) Black-box concurrent zero-knowledge requires (almost) logarithmically many rounds. (English summary) **2004b:94056**
(Chen, Jian Er) *see* **Special Issue: Parameterized computation and complexity**
Chubaryan, A. A. Relative efficiency of some proof systems for classical propositional logic. (Russian. English and Russian summaries) **2004i:03094**
Cintioli, Patrizio (*with* Silvestri, Riccardo) Polynomial time introreducibility. (English summary) **2004a:03041**
Constable, Robert L. (*with* Crary, Karl) Computational complexity and induction for partial computable functions in type theory. (English summary) **2004a:03017**
Cook, Stephen A. (*with* Kolokolova, Antonina) A second-order system for polytime reasoning based on Grädel's theorem. (English summary) **2004i:03097**
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Cotta, Carlos (*with* Moscato, Pablo) The k-feature set problem is $W[2]$-complete. (English summary) **2004k:68057**
Crary, Karl *see* **Constable, Robert L., 2004a:03017**
Cucker, Felipe Three lectures on real computation. (English summary) (*see* **2004d:68050**)
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Díaz, Josep The AKS primality algorithm. (Spanish) **2004g:68056**
Dinitz, Yefim (*with* Moran, Shlomo; Rajsbaum, Sergio) Exact communication costs for consensus and leader in a tree. (English summary) **2004m:68010**
Doria, F. A. *see* **da Costa, Newton C. A., 2004f:03076**
Durand, Arnaud Linear time and the power of one first-order universal quantifier. (English summary) **2004a:68040**
Dyer, Martin E. (*with* Goldberg, Leslie Ann; Jerrum, Mark) Counting and sampling H-colourings. (English summary) **2004m:68089**
Engebretsen, Lars (*with* Holmerin, Jonas) Towards optimal lower bounds for clique and chromatic number. (English summary) **2004m:68073**
Evans, Patricia A. (*with* Smith, Andrew David; Wareham, H. Todd) On the complexity of finding common approximate substrings. (English summary) **2004g:68059**
Feige, Uriel (*with* Verbitskiĭ, O. V.) Error reduction by parallel repetition—a negative result. (English summary) **2004a:68024**
Fellows, Michael R. (*with* McCartin, Catherine) On the parametric complexity of schedules to minimize tardy tasks. (English summary) **2004c:68040**
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Flum, Jörg (*with* Grohe, Martin) Describing parameterized complexity classes. (English summary) **2004m:68082**
Fortnow, Lance One complexity theorist's view of quantum computing. (English summary) **2004b:68044**
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Gál, Anna (*with* Pudlák, Pavel) A note on monotone complexity and the rank of matrices. (English summary) **2004g:68052**
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Givan, Robert (*with* McAllester, David) Polynomial-time computation via local inference relations. (English summary) **2004m:68083**
Goldberg, Leslie Ann *see* **Dyer, Martin E. et al., 2004m:68089**
Goldreich, Oded (*with* Wigderson, Avi) Derandomization that is rarely wrong from short

advice that is typically good. (English summary) **2004m:68091**
Goldwasser, Shafi Mathematical foundations of modern cryptography: computational complexity perspective. (English summary) **2004h:68034**
— *see also* **Micciancio, Daniele**, **2004m:94067**
Gorazd, Tomasz A. Fast isomorphism testing in arithmetical varieties. (English summary) **2004i:68082**
Grohe, Martin *see* **Flum, Jörg**, **2004m:68082**
Hachaïchi, Yassine A descriptive complexity approach to the linear hierarchy. (English summary) **2004k:68062**
Hamkins, Joel David (*with* Welch, Philip David) $P^f \neq NP^f$ for almost all f. (English summary) **2004m:03163**
Hartman, Tzvika (*with* Raz, Ran) On the distribution of the number of roots of polynomials and explicit weak designs. (English summary) **2004i:05024**
Hesse, William Division is in uniform TC^0. (English summary)
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Holmerin, Jonas *see* **Engebretsen, Lars**, **2004m:68073**
Holzer, Markus (*with* McKenzie, Pierre) Alternating and empty alternating auxiliary stack automata. (English summary) **2004e:68055**
Homeister, Matthias *see* **Brosenne, Henrik et al.**, **2004a:68023**
Hudry, Olivier Machines de Turing et complexité algorithmique. (English and French summaries) [Turing machines and algorithmic complexity] **2004f:68033**
Jacobson, Sheldon H. *see* **Armstrong, Derek E.**, **2004c:90111**
Janzing, Dominik *see* **Wocjan, Pawel et al.**, **2004j:81043**
Jerrum, Mark *see* **Dyer, Martin E. et al.**, **2004m:68089**
Jurdziński, Tomasz (*with* Kutyłowski, Mirosław) Communication gap for finite memory devices. (English summary)
Kabanets, Valentine Almost k-wise independence and hard Boolean functions. (English summary) **2004k:68058**
Khoussainov, Bakhadyr (*with* Rubin, Sasha) Automatic structures: overview and future directions. (English summary) **2004f:03074**
Kilian, Joe *see* **Canetti, Ran et al.**, **2004b:94056**
Kiwi, Marcos A. (*with* Magniez, Frédéric; Santha, Miklos) Exact and approximate testing/correcting of algebraic functions: a survey. (English summary) **2004a:68111**
Kobayashi, Hirotada (*with* Matsumoto, Keiji[2]) Quantum multi-prover interactive proof systems with limited prior entanglement. (English summary) **2004h:68039**
Kolokolova, Antonina *see* **Cook, Stephen A.**, **2004i:03097**
Koucký, Michal Universal traversal sequences with backtracking. (English summary) **2004c:68110**
Kremer, Ilan (*with* Nisan, Noam; Ron, Dana) Errata for: "On randomized one-round communication complexity" [Comput. Complexity **8** (1999), no. 1, 21–49; MR 2000c:68070]. **2004d:68057**
Kristiansen, Lars (*with* Voda, Paul J.) Complexity classes and fragments of C. **2004j:68110**
Kutrib, Martin Refining nondeterminsim below linear time. (English summary) **2004f:68034**
Kutyłowski, Mirosław *see* **Jurdziński, Tomasz**
(Leivant, Daniel) *see* **Special Issue: ICC'99**
Li, Dafa Is DNA computing viable for 3-SAT problems? (English summary) **2004f:68038**
Lipton, Richard J. (*with* Ogihara, Mitsunori; Zalcstein, Yechezkel) A note on square rooting of time functions of Turing machines. **2004c:68032**
Lotfallah, Wafik Boulos On the complexity of the first-order random theory. (English summary) **2004c:03052**
Magniez, Frédéric *see* **Kiwi, Marcos A. et al.**, **2004a:68111**
Makowsky, Johann A. (*with* Mariño, J. P.) Tree-width and the monadic quantifier hierarchy. (English summary) **2004g:68134**
Marathe, Madhav V. Towards a predictive computational complexity theory.
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Mariño, J. P. *see* **Makowsky, Johann A.**, **2004g:68134**
Marion, J. Y. Analysing the implicit complexity of programs. (English summary) **2004k:68079**
Matsumoto, Keiji[2] *see* **Kobayashi, Hirotada**, **2004h:68039**
McAllester, David *see* **Givan, Robert**, **2004m:68083**
McCartin, Catherine *see* **Fellows, Michael R.**, **2004e:68040**
McKenzie, Pierre *see* **Holzer, Markus**, **2004e:68055**
Merkle, Wolfgang *see* **Ambos-Spies, Klaus et al.**, **2004g:03063**
Micciancio, Daniele (*with* Goldwasser, Shafi) ★ Complexity of lattice problems. **2004m:94067**
Moniri, Morteza Comparing constructive arithmetical theories based on NP-PIND and coNP-PIND. (English summary) **2004k:03107**
— On two questions about feasibly constructive arithmetic. (English summary) **2004g:03100**
Moore, Cristopher *see* **Ablaev, Farid M. et al.**
Moran, Shlomo *see* **Dinitz, Yefim et al.**, **2004m:68010**
Moscato, Pablo *see* **Cotta, Carlos**, **2004k:68057**
Mossel, Elchanan (*with* Umans, Christopher) On the complexity of approximating the VC dimension. (English summary) **2004c:68047**
— (*with* O'Donnell, Ryan) On the noise sensitivity of monotone functions. (English summary) **2004g:68067**
Naïdenko, V. G. Complexity of finding a second solution of an NP-complete problem. (Russian. English and Russian summaries) **2004f:68046**
Neven, Frank Automata, logic, and XML. (English summary) **2004m:03147**
Newman, Ilan *see* **Buhrman, Harry et al.**, **(2004a:68002)**
Niedermeier, Rolf (*with* Rossmanith, Peter) On efficient fixed-parameter algorithms for weighted vertex cover. (English summary) **2004d:68121**
— *see also* **Alber, Jochen et al.**
Nisan, Noam The communication complexity of approximate set packing and covering. (English summary)
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Nishimura, Harumichi Quantum computation with restricted amplitudes. (English summary) **2004k:81099**
Occhiuto, M. Eugenia *see* **Bellia, Marco**, **2004i:68192**
O'Donnell, Ryan *see* **Mossel, Elchanan**, **2004g:68067**
Ogihara, Mitsunori *see* **Lipton, Richard J. et al.**, **2004c:68032**
Okhotin, Alexander On the complexity of the string generation problem. (Russian. Russian summary) **2004k:68070**
Ostrin, G. E. (*with* Wainer, S. S.) Proof theoretic complexity. (English summary) **2004i:03096**
Ozhigov, Yu. I. Fast quantum mechanical verification of logic formulas. (Russian) **2004c:68033**
Paschos, Vangelis Th. *see* **Demange, Marc**, **2004e:68122** *and* **2004h:68153**
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Petersen, Holger The membership problem for regular expressions with intersection is complete in LOGCFL. (English summary) **2004m:68077**
— *see also* **Ben-Amram, Amir M. et al.**, **2004i:68074**
Petrank, Erez *see* **Canetti, Ran et al.**, **2004b:94056**
Plaisted, David A. (*with* Biere, Armin; Zhu, Yunshan) A satisfiability procedure for quantified Boolean formulae. (English summary) **2004i:68088**
Pointcheval, David (*with* Poupard, Guillaume) A new $\mathcal{NP}$-complete problem and public-key identification. (English summary) **2004c:94109**
Pollett, Christopher On the bounded version of Hilbert's tenth problem. (English summary) **2004k:03108**
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Popély, Norbert The communication hierarchy of time and space bounded parallel machines. (English summary) **2004g:68038**
Poupard, Guillaume *see* **Pointcheval, David**, **2004c:94109**
Pudlák, Pavel Parallel strategies. (English summary) **2004m:03209**
— *see also* **Gál, Anna**, **2004g:68052**
Raghavan, Vijay K. (*with* Spinrad, Jeremy P.) Robust algorithms for restricted domains. (English summary) **2004f:68047**
Rajsbaum, Sergio *see* **Dinitz, Yefim et al.**, **2004m:68010**
Raz, Ran *see* **Hartman, Tzvika**, **2004i:05024**
Razborov, A. A. Proof complexity of pigeonhole principles. (English summary) **2004a:03065**
Reimann, Jan *see* **Ambos-Spies, Klaus et al.**, **2004g:03063**
Reith, Steffen (*with* Vollmer, Heribert) Optimal satisfiability for propositional calculi and constraint satisfaction problems. (English summary) **2004h:68058**
Rōhrig, Hein *see* **Buhrman, Harry et al.**, **(2004a:68002)**
Romero Jiménez, Álvaro *see* **Pérez Jiménez, Mario J. et al.**, **2004j:68060**
Ron, Dana Property testing. **2004c:68161**
— *see also* **Kremer, Ilan et al.**, **2004d:68057**
Rosen, Alon *see* **Canetti, Ran et al.**, **2004b:94056**
Rossmanith, Peter *see* **Niedermeier, Rolf**, **2004d:68121**
Rothe, Jörg Exact complexity of exact-four-colorability. (English summary) **2004d:68123**
Rubin, Sasha *see* **Khoussainov, Bakhadyr**, **2004f:03074**
Sancho Caparrini, Fernando *see* **Pérez Jiménez, Mario J. et al.**, **2004j:68060**
Santha, Miklos *see* **Kiwi, Marcos A. et al.**, **2004a:68111**
Sasamoto, Tomohiro Phase transitions of subset sum and Shannon's limit in source coding. (English summary)
Sauerhoff, Martin Guess-and-verify versus unrestricted nondeterminism for OBDDs and one-way Turing machines. (English summary) **2004c:68034**
Schindler, Ralf $P \neq NP$ for infinite time Turing machines. (English summary) **2004m:03164**
Schulman, Leonard J. *see* **Ambainis, Andris et al.**, **2004k:94016**
Schwichtenberg, Helmut (*with* Bellantoni, Stephen J.) Feasible computation with higher types. (English summary) **2004f:03082**
Seif, Steve (*with* Szabó, Csaba) Algebra complexity problems involving graph homomorphism, semigroups and the constraint satisfaction problem. (English summary) **2004c:68056**
Selivanov, V. L. On the decidability of hierarchy classes of regular aperiodic languages. (Russian. Russian summary) **2004c:68080**
Shapira, Asaf *see* **Alon, Noga**, **2004g:68053**
Shpilka, Amir Affine projections of symmetric polynomials. (English summary) **2004a:68038**
Silvestri, Riccardo *see* **Cintioli, Patrizio**, **2004a:03041**
Smith, Andrew David *see* **Evans, Patricia A. et al.**, **2004g:68059**
Sosík, Petr The computational power of cell division in P systems: beating down parallel computers? (English summary) **2004j:68061**
Spinrad, Jeremy P. *see* **Raghavan, Vijay K.**, **2004f:68047**
Spreen, Dieter Safe weak minimization revisited. (English summary) **2004a:03042**
Strahm, Thomas Theories with self-application and computational complexity. (English summary) **2004g:03102**
Subramani, K. On deciding the non-emptiness of 2SAT polytopes with respect to first order queries. (English summary) **2004m:68101**
(Sudan, Madhu) *see* **Wigderson, Avi**, **2004e:01056**
Sutner, Klaus Cellular automata and intermediate degrees. (English summary) **2004b:68114**
Szabó, Csaba *see* **Seif, Steve**, **2004c:68056**
Ta-Shma, Amnon *see* **Ambainis, Andris et al.**, **2004k:94016**
Terwijn, Sebastiaan A. *see* **Ambos-Spies, Klaus et al.**, **2004g:03063**
Tesson, Pascal (*with* Thérien, Denis) Diamonds are forever: the variety DA. (English summary) **2004j:68108**
Thanh Minh Hoang (*with* Thierauf, Thomas) The complexity of the inertia. (English summary) **2004m:68102**

— (*with* Thierauf, Thomas) The complexity of the characteristic and the minimal polynomial. (English summary) **2004m:68103**
Thapen, Neil A model-theoretic characterization of the weak pigeonhole principle. (English summary) **2004e:03105**
Thérien, Denis *see* **Tesson, Pascal**, **2004j:68108**
Thierauf, Thomas *see* **Thanh Minh Hoang**, **2004m:68102** *and* **2004m:68103**
Turner, Hudson Polynomial-length planning spans the polynomial hierarchy. (English summary) (*see* **2004j:68015**)
Umans, Christopher *see* **Mossel, Elchanan**, **2004c:68047**
Urquhart, Alasdair Resolution proofs of matching principles. (English summary) **2004c:03080**
Valiant, Leslie G. Quantum circuits that can be simulated classically in polynomial time. (English summary) **2004g:81044**
Vazirani, Umesh V. *see* **Ambainis, Andris et al.**, **2004k:94016**
Verbitskiĭ, O. V. *see* **Feige, Uriel**, **2004a:68024**
Voda, Paul J. *see* **Kristiansen, Lars**, **2004j:68110**
Vollmer, Heribert *see* **Reith, Steffen**, **2004h:68058**
Waack, Stephan *see* **Brosenne, Henrik et al.**, **2004a:68023**
Wainer, S. S. *see* **Ostrin, G. E.**, **2004i:03096**
Wareham, H. Todd *see* **Evans, Patricia A. et al.**, **2004g:68059**
Wegener, Ingo BDDs—design, analysis, complexity, and applications. (English summary) **2004m:68051**
Weihrauch, Klaus Computational complexity on computable metric spaces. (English summary) **2004e:03099**
Welch, Philip David *see* **Hamkins, Joel David**, **2004m:03163**
Wigderson, Avi On the work of Madhu Sudan. (English summary) **2004e:01056**
— *see also* **Ambainis, Andris et al.**, **2004k:94016** *and* **Goldreich, Oded**, **2004m:68091**
Wocjan, Pawel (*with* Janzing, Dominik; Beth, Thomas) Two QCMA-complete problems. (English summary) **2004j:81043**
Zalcstein, Yechezkel *see* **Lipton, Richard J. et al.**, **2004c:68032**
Zhu, Yunshan *see* **Plaisted, David A. et al.**, **2004i:68088**

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Errata:
"Ordinal notations and well-orderings in bounded arithmetic" Erratum to: "Ordinal notations and well-orderings in bounded arithmetic" [Ann. Pure Appl. Logic **120** (2003), no. 1-3, 197–223] by A. Beckmann, C. Pollett and S. R. Buss. **2004d:03128b**
Special Issue:
ICC'99 ★ Special issue: ICC'99.
Parameterized computation and complexity ★ Special issue on parameterized computation and complexity.
Trento ★ Special issue: ICC'99.
Workshop:
Implicit Computational Complexity ★ Special issue: ICC'99.

68Q17 Computational difficulty of problems (lower bounds, completeness, difficulty of approximation, etc.) [see also 68Q15]

Ajtai, Miklós Determinism versus nondeterminism for linear time RAMs with memory restrictions. (English summary) **2004a:68033**
Amano, Kazuyuki (*with* Maruoka, Akira) The potential of the approximation method. (English summary) **2004m:68069**
Backofen, Rolf (*with* Narayanaswamy, N. S.; Swidan, Firas) On the complexity of protein similarity search under mRNA structure constraints. (English summary) **2004m:68070**
Bálint, Vojtech, Jr. The non-approximability of bicriteria network design problems. (English summary) **2004i:68069**
Barrett, Christopher L. (*with* Hunt, Harry B., III; Marathe, Madhav V.; Ravi, S. S.; Rosenkrantz, Daniel J.; Stearns, Richard E.) Reachability problems for sequential dynamical systems with threshold functions. (English summary) **2004b:68061**
Ben-David, Shai (*with* Eiron, Nadav; Long, Philip M.) On the difficulty of approximately maximizing agreements. (English summary) **2004d:68051**
Berman, Piotr (*with* Karpinski, Marek) Approximation hardness of bounded degree MIN-CSP and MIN-BISECTION. (English summary)
Brieden, Andreas (*with* Gritzmann, Peter) On the inapproximability of polynomial-programming, the geometry of stable sets, and the power of relaxation. (English summary) **2004m:68071**
Buresh-Oppenheim, Joshua (*with* Clegg, Matthew; Impagliazzo, Russell; Pitassi, Toniann) Homogenization and the polynomial calculus. (English summary) **2004i:68070**
Bürgisser, Peter Lower bounds and real algebraic geometry. (English summary) **2004f:68039**
Castro, D. (*with* Giusti, M.; Heintz, J.; Matera, G.; Pardo, L. M.) The hardness of polynomial equation solving. (English summary) **2004k:68056**
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Chlebík, Miroslav (*with* Chlebíková, Janka) Approximation hardness of the Steiner tree problem on graphs. (English summary)
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Chlebíková, Janka *see* **Chlebík, Miroslav**, (**2004j:68002**)
Cieliebak, Mark (*with* Eidenbenz, Stephan J.; Woeginger, Gerhard J.) Double digest revisited: complexity and approximability in the presence of noisy data. (English summary)
Clegg, Matthew *see* **Buresh-Oppenheim, Joshua et al.**, **2004i:68070**
Cotta, Carlos (*with* Moscato, Pablo) The k-feature set problem is $W[2]$-complete. (English summary) **2004k:68057**
Demaine, Erik D. (*with* Hohenberger, Susan; Liben-Nowell, David) Tetris is hard, even to approximate. (English summary)
— (*with* Demaine, Martin L.; Hoffmann, Michael; O'Rourke, Joseph) Pushing blocks is hard. (English summary) **2004e:68036**
Demaine, Martin L. *see* **Demaine, Erik D. et al.**, **2004e:68036**
Demri, Stéphane (*with* Sattler, Ulrike) Automata-theoretic decision procedures for information logics. (English summary) **2004f:68040**
Diekert, Volker (*with* Lohrey, Markus) Existential and positive theories of equations in graph products. (English summary) **2004m:68072**
Dinur, I. (*with* Kindler, G.; Raz, Ran; Safra, Shmuel) Approximating CVP to within almost-polynomial factors is NP-hard. (English summary) **2004h:68046**
Dumer, Ilya (*with* Micciancio, Daniele; Sudan, Madhu) Hardness of approximating the minimum distance of a linear code. (English summary) **2004a:68034**
Eidenbenz, Stephan J. *see* **Cieliebak, Mark et al.**
Eiron, Nadav *see* **Ben-David, Shai et al.**, **2004d:68051**
Elomaa, Tapio *see* **Nock, Richard et al.**, **2004c:68048**
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Feigenbaum, Joan (*with* Krishnamurthy, Arvind[1]; Sami, Rahul; Shenker, Scott) Hardness results for multicast cost sharing. (English summary) **2004g:68051**
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Gramm, Jens *see* **Fellows, Michael R. et al.**, **2004m:68074**
Gritzmann, Peter *see* **Brieden, Andreas**, **2004m:68071**
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Hunt, Harry B., III *see* **Barrett, Christopher L. et al.**, **2004b:68061**
Impagliazzo, Russell *see* **Buresh-Oppenheim, Joshua et al.**, **2004i:68070**
Indyk, Piotr *see* **Guruswami, Venkatesan**, (**2004a:68002**)
Irving, Robert W. *see* **Halldórsson, Magnús M. et al.**, **2004h:68047**
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Kääriäinen, Matti *see* **Nock, Richard et al.**, **2004c:68048**
Kabanets, Valentine Almost k-wise independence and hard Boolean functions. (English summary) **2004k:68058**
Kamalyan, R. R. *see* **Mkrtchyan, V. V.**
Karpinski, Marek *see* **Berman, Piotr** *and* **Engebretsen, Lars**
Khot, Subhash *see* **Chakrabarti, Amit**
Kindler, G. *see* **Dinur, I. et al.**, **2004h:68046**
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Kortenkamp, Ulrich H. *see* **Richter-Gebert, Jürgen**, **2004k:68061**
Kortsarz, Guy *see* **Even, Guy et al.**
Krishnamurthy, Arvind[1] *see* **Feigenbaum, Joan et al.**, **2004g:68051**
Kučera, Antonín[2] *see* **Jančar, Petr et al.**, **2004a:68036**
Liben-Nowell, David *see* **Demaine, Erik D. et al.**
Libeskind-Hadas, Ran *see* **Hartline, Jeffrey R.**, **2004m:68075**
Lohrey, Markus *see* **Diekert, Volker**, **2004m:68072**
Long, Philip M. *see* **Ben-David, Shai et al.**, **2004d:68051**
Manlove, David F. *see* **Halldórsson, Magnús M. et al.**, **2004h:68047**
Marathe, Madhav V. *see* **Barrett, Christopher L. et al.**, **2004b:68061**
Markey, Nicolas (*with* Schnoebelen, Ph.) A PTIME-complete matching problem for SLP-compressed words. (English summary) **2004k:68059**
Maruoka, Akira *see* **Amano, Kazuyuki**, **2004m:68069**
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Matamala, Martín *see* **Fomin, Fedor V. et al.**
Matera, G. *see* **Castro, D. et al.**, **2004k:68056**

Micciancio, Daniele *see* **Dumer, Ilya et al., 2004a:68034**
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Miyazaki, Shuichi *see* **Halldórsson, Magnús M. et al., 2004a:68035** *and* **2004h:68047**
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Moller, Faron *see* **Jančar, Petr et al., 2004a:68036**
Morita, Yasufumi *see* **Halldórsson, Magnús M. et al., 2004a:68035** *and* **2004h:68047**
Morizumi, Hiroki *see* **Iwama, Kazuo**
Moscato, Pablo *see* **Cotta, Carlos, 2004k:68057**
Mossel, Elchanan (*with* Umans, Christopher) On the complexity of approximating the VC dimension. (English summary) **2004c:68047**
Mulmuley, Ketan (*with* Sohoni, Milind) Geometric complexity theory, P vs. NP and explicit obstructions. (English summary) **2004h:68048**
Nagashima, Hiroyuki (*with* Yamazaki, Koichi) Hardness of approximation for non-overlapping local alignments. (English summary) **2004m:68076**
Narayanaswamy, N. S. *see* **Backofen, Rolf et al., 2004m:68070**
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Nock, Richard (*with* Elomaa, Tapio; Kääriäinen, Matti) Reduced error pruning of branching programs cannot be approximated to within a logarithmic factor. (English summary) **2004c:68048**
O'Rourke, Joseph *see* **Demaine, Erik D. et al., 2004e:68036**
Pardo, L. M. *see* **Castro, D. et al., 2004k:68056**
Park, Kunsoo *see* **Sim, Jeong Seop, 2004j:68068**
Petersen, Holger The membership problem for regular expressions with intersection is complete in LOGCFL. (English summary) **2004m:68077**
Pichler, Reinhard On the complexity of equational problems in CNF. (English summary) **2004h:68049**
Pitassi, Toniann *see* **Buresh-Oppenheim, Joshua et al., 2004i:68070**
Popov, Vladimir Yur'evich The approximate period problem for DNA alphabet. (English summary) **2004f:68041**
Pudlák, Pavel *see* **Gál, Anna, 2004g:68052**
Radhakrishnan, Jaikumar *see* **Mishra, Sounaka et al., 2004k:68060**
Rapaport, Ivan *see* **Fomin, Fedor V. et al.**
Ravi, S. S. *see* **Barrett, Christopher L. et al., 2004b:68061**
Raz, Ran (*with* Shpilka, Amir) Lower bounds for matrix product in bounded depth circuits with arbitrary gates. (English summary) **2004d:68052**
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Richter-Gebert, Jürgen (*with* Kortenkamp, Ulrich H.) Complexity issues in dynamic geometry. (English summary) **2004k:68061**
Rosenkrantz, Daniel J. *see* **Barrett, Christopher L. et al., 2004b:68061**
Rothe, Jörg *see* **Hemaspaandra, Edith et al.**
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Safra, Shmuel *see* **Dinur, I. et al., 2004h:68046**
Saks, Michael *see* **Russell, Alexander C. et al., 2004a:68037**
Sami, Rahul *see* **Feigenbaum, Joan et al., 2004g:68051**
Sattler, Ulrike *see* **Demri, Stéphane, 2004f:68040**
Sauerhoff, Martin Approximation of Boolean functions by combinatorial rectangles. (English summary) **2004h:68050**
Sawa, Zdeněk *see* **Jančar, Petr et al., 2004a:68036**
Schnoebelen, Ph. *see* **Markey, Nicolas, 2004k:68059**
Schurr, Ingo (*with* Szabó, Tibor) Finding the sink takes some time: an almost quadratic lower bound for finding the sink of unique sink oriented cubes. (English summary) **2004m:68078**
Scott, Sandy *see* **Halldórsson, Magnús M. et al., 2004h:68047**
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Shpilka, Amir Affine projections of symmetric polynomials. (English summary) **2004a:68038**
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Sim, Jeong Seop (*with* Park, Kunsoo) The consensus string problem for a metric is NP-complete. (English summary) **2004j:68068**
Sivasubramanian, S. *see* **Mishra, Sounaka et al., 2004k:68060**
Slany, Wolfgang *see* **Even, Guy et al.**
Sohoni, Milind *see* **Mulmuley, Ketan, 2004h:68048**
Spakowski, Holger *see* **Hemaspaandra, Edith et al.**
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Srinivasan, Aravind On the approximability of clique and related maximization problems. (English summary) **2004i:68071**
Stearns, Richard E. *see* **Barrett, Christopher L. et al., 2004b:68061**
Sudan, Madhu *see* **Dumer, Ilya et al., 2004a:68034**
Swidan, Firas *see* **Backofen, Rolf et al., 2004m:68070**
Szabó, Tibor *see* **Schurr, Ingo, 2004m:68078**
Thimm, Martin On the approximability of the Steiner tree problem. (English summary) **2004b:68063**
Tovey, Craig A. Non-approximability of precedence-constrained sequencing to minimize setups. (English summary) **2004j:68069**
Umans, Christopher *see* **Mossel, Elchanan, 2004c:68047**
Woeginger, Gerhard J. *see* **Cieliebak, Mark et al.**
Yamazaki, Koichi *see* **Nagashima, Hiroyuki, 2004m:68076**
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Amano, Kazuyuki (*with* Maruoka, Akira) Some properties of MOD_m circuits computing simple functions. (English summary) (*see* **2004j:68002**)
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Anand, R. Sai (*with* Erlebach, Thomas; Hall, Alexander; Stefanakos, Stamatis) Call control with k rejections. (English summary)
Andreou, Maria I. (*with* Fotakis, Dimitris A.; Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) On radiocoloring hierarchically specified planar graphs: $\mathcal{PSPACE}$-completeness and approximations. (English summary)
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Armstrong, Derek E. (*with* Jacobson, Sheldon H.) Studying the complexity of global verification for NP-hard discrete optimization problems. (English summary) **2004c:90111**
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Balbiani, Philippe (*with* Condotta, Jean-François) Computational complexity of propositional linear temporal logics based on qualitative spatial or temporal reasoning. (English summary) **2004b:68143**
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Boros, Endre (*with* Gurvich, Vladimir; Khachiyan, Leonid; Makino, Kazuhisa) On the complexity of generating maximal frequent and minimal infrequent sets. (English summary) **2004m:68086**
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Boza, Luis (*with* Fedriani, Eugenio M.; Núñez-Valdés, Juan) The problem of outer-embeddings in pseudosurfaces. (English summary) **2004m:05075**
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Brieden, Andreas (*with* Cokus, Shawn) On the hardness of efficiently approximating maximal non-L submatrices. (English summary) **2004k:15059**
Broersma, H. J. (*with* Fomin, Fedor V.; Nešetřil, Jaroslav; Woeginger, Gerhard J.) More about subcolorings. (English summary)
Bruck, Jehoshua *see* **Bohossian, Vasken, 2004j:68137**
Brucker, François *see* **Barthélemy, Jean-Pierre, 2004i:62115**
Buhrman, Harry (*with* Fortnow, Lance; Newman, Ilan; Röhrig, Hein) Quantum property testing. (English summary) (*see* **2004a:68002**)
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Călinescu, Gruia (*with* Fernandes, Cristina G.; Reed, Bruce A.) Multicuts in unweighted graphs and digraphs with bounded degree and bounded tree-width. (English summary) **2004f:68187**

Caprara, Alberto (*with* Panconesi, Alessandro; Rizzi, Romeo) Packing cycles in undirected graphs. (English summary) **2004h:05121**

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Cheng, Xiuzhen *see* **Cardei, Mihaela et al., 2004f:68188**

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Chistov, A. L. (*with* Fournier, Hervé; Gurvits, Leonid; Koiran, Pascal) Vandermonde matrices, NP-completeness, and transversal subspaces. (English summary) **2004h:15026**

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Cokus, Shawn *see* **Brieden, Andreas, 2004k:15059**

Comon-Lundh, Hubert (*with* Jacquemard, Florent) Ground reducibility is EXPTIME-complete. (English summary) **2004k:68077**

Condotta, Jean-François *see* **Balbiani, Philippe, 2004b:68143**

Cucker, Felipe *see* **Bürgisser, Peter, 2004k:68049**

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Dragan, Feodor F. *see* **Brandstädt, Andreas et al., 2004h:05120**

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Edelkamp, Stefan (*with* Stiegeler, Patrick) Implementing HEAPSORT with $n \log n - 0.9n$ and QUICKSORT with $n \log n + 0.2n$ comparisons. (English summary) **2004c:68168**

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Epstein, Leah (*with* van Stee, Rob) Lower bounds for on-line single-machine scheduling. (English summary) **2004b:90038**

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Erickson, Jeff *see* **Soss, Michael et al., 2004j:68183**

Erlebach, Thomas *see* **Anand, R. Sai et al.**

Esteban, Juan Luis *see* **Atserias, Albert et al.**

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Fang, Qizhi On the computational complexity of upper total domination. (English summary) **2004m:05188**

Faria, Luerbio *see* **Dantas, Simone et al.**

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Feder, Tomás (*with* Hell, Pavol; Mohar, Bojan) Acyclic homomorphisms and circular colorings of digraphs. (English summary) **2004m:05098**

Fedriani, Eugenio M. *see* **Boza, Luis et al., 2004m:05075**

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Fekete, Sándor P. *see* **Arkin, Esther M. et al., 2004d:68161**

Feng, Haodi *see* **Deng, Xiao-Tie et al., 2004k:68066**

Fernandes, Cristina G. (*with* Green, Edward L.[1]; Mandel, Arnaldo) From monomials to words to graphs. (English summary) **2004m:20107**

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Fernau, Henning Complexity of a $\{0, 1\}$-matrix problem. (English summary) **2004k:68067**

de Figueiredo, Celina M. H. *see* **Dantas, Simone et al.**

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Fragoudakis, Christodoulos *see* **Markou, Euripides et al., (2004j:68002)**

Gál, Anna A characterization of span program size and improved lower bounds for monotone span programs. (English summary) **2004g:68046**

Galbiati, Giulia On finding cycle bases and fundamental cycle bases with a shortest maximal cycle. (English summary) **2004h:68056**

Gale, Amy *see* **Welsh, D. J. A., (2004d:68050)**

Galesi, Nicola *see* **Ben-Sasson, Eli, 2004f:03100**

Garvín, Antonio (*with* Lechuga, Luis) The computation of the Betti numbers of an elliptic space is a NP-hard problem. (English summary) **2004b:55020**

Gendreau, Michel (*with* Laporte, Gilbert; Semet, Frédéric) Heuristics and lower bounds for the bin packing problem with conflicts. (English summary) **2004k:90058**

Giaro, Krzysztof On an NP-hard sorting problem. (English summary) **2004i:68039**

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Goldreich, Oded (*with* Trevisan, Luca) Three theorems regarding testing graph properties. (English summary) **2004i:68081**

Goldwasser, Shafi On the work of Madhu Sudan: the 2002 Nevanlinna Prize winner. **2004e:68034**

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Golin, Mordecai J. *see* **Fleischer, Rudolf et al.**

Green, Edward L.[1] *see* **Fernandes, Cristina G. et al., 2004m:20107**

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de Groote, Philippe *see* **Salvati, Sylvain**

Guruswami, Venkatesan (*with* Khanna, Sanjeev; Rajaraman, Rajmohan; Shepherd, F. Bruce; Yannakakis, Mihalis) Near-optimal hardness results and approximation algorithms for edge-disjoint paths and related problems. (English summary) **2004i:68083**

Gurvich, Vladimir *see* **Boros, Endre et al., 2004m:68086**

Gurvits, Leonid *see* **Chistov, A. L. et al., 2004h:15026**

Habib, Michel (*with* Nourine, Lhouari; Raynaud, O.; Thierry, Éric) Computational aspects of the 2-dimension of partially ordered sets. (English summary) **2004k:68068**

Haddadi, Salim A note on the NP-hardness of the consecutive block minimization problem. (English summary)

Hajduková, Jana *see* **Cechlárová, Katarína, 2004c:91012**

Hall, Alexander *see* **Anand, R. Sai et al.**

Hall, Nicholas G. (*with* Lee, Tae-Eog; Posner, Marc E.) The complexity of cyclic shop scheduling problems. (English summary) **2004g:90041**

Halldórsson, Magnús M. *see* **Feige, Uriel et al., 2004d:05139**

Harris, Laura (*with* Hattingh, Johannes H.) The algorithmic complexity of certain functional variations of total domination in graphs. (English summary) **2004k:68132**

Håstad, Johan (*with* Wigderson, Avi) Simple analysis of graph tests for linearity and PCP. (English summary) **2004b:68055**

Hattingh, Johannes H. *see* **Harris, Laura, 2004k:68132**

Healy, Patrick (*with* Nikolov, Nikola S.) A branch-and-cut approach to the directed acyclic graph layering problem. (English summary)

Hearn, Robert A. (*with* Demaine, Erik D.) The nondeterministic constraint logic model of computation: reductions and applications. (English summary)

Hell, Pavol *see* **Feder, Tomás et al., 2004m:05098**

Hirsch, Edward A. *see* **Grigor'ev, D. Yu. et al., 2004e:03094**

Ho, Hann-Jang *see* **Lee, SingLing, 2004f:05177**

Holzer, Markus (*with* Schwoon, Stefan) Assembling molecules in ATOMIX is hard. (English summary)

— *see also* **Beaudry, M. et al., 2004a:68061**

Hougardy, Stefan *see* **Drake, Doratha E., 2004i:68248**

Hromkovič, Juraj (*with* Sauerhoff, Martin) The power of nondeterminism and randomness for oblivious branching programs. (English summary) **2004c:68035**

— *see also* **Böckenhauer, Hans-Joachim et al., (2004j:68011)**

Hsiang, Jieh (*with* Hsu, D. Frank; Shieh, Yuh-Pyng) On the hardness of counting problems of complete mappings. (English summary) **2004m:05134**

Hsu, D. Frank *see* **Hsiang, Jieh et al., 2004m:05134**

Ianni, Giovambattista *see* **Angiulli, Fabrizio et al., 2004f:68044**

Impagliazzo, Russell Hardness as randomness: a survey of universal derandomization. (English summary) **2004a:68030**

Jacobson, Sheldon H. *see* **Armstrong, Derek E., 2004c:90111**

Jacquemard, Florent *see* **Comon-Lundh, Hubert, 2004k:68077**

Jančar, Petr (*with* Kučera, Antonín[2]; Moller, Faron; Sawa, Zdeněk) DP lower bounds for

equivalence-checking and model-checking of one-counter automata. (English summary) **2004k:68110**

Jeavons, Peter *see* **Krokhin, Andrei et al., 2004m:68215**

Jenner, Birgit (*with* Köbler, Johannes; McKenzie, Pierre; Torán, Jacobo) Completeness results for graph isomorphism. (English summary) **2004c:68038**

Jerrum, Mark ★ Counting, sampling and integrating: algorithms and complexity. **2004a:68044**

— *see also* **Goldberg, Leslie Ann et al., 2004f:82007**

Jiang, Tao[1] *see* **Chen, Zhi-Zhong et al., 2004f:92019**

Jirásková, Galina Note on minimal automata and uniform communication protocols. (English summary) **2004m:68136**

Johannsen, Jan (*with* Narayanaswamy, N. S.) An optimal lower bound for resolution with 2-conjunctions. (English summary)

Jonsson, Peter *see* **Krokhin, Andrei et al., 2004m:68215**

Jurdziński, Tomasz (*with* Kutyłowski, Mirosław) Communication gap for finite memory devices. (English summary)

Kääriäinen, Matti *see* **Elomaa, Tapio, 2004m:68203**

Kaibel, Volker (*with* Schwartz, Alexander) On the complexity of polytope isomorphism problems. (English summary) **2004e:05125**

Karakostas, George (*with* Lipton, Richard J.; Viglas, Anastasios) On the complexity of intersecting finite state automata and NL versus NP. (English summary) **2004c:68039**

Karpinski, Marek *see* **Berman, Piotr et al., 2004b:68180** *and* **Ablaev, Farid M., 2004h:68035**

Kervinen, Antti *see* **Valmari, Antti, (2004j:68004)**

Khachiyan, Leonid *see* **Boros, Endre et al., 2004m:68086**

Khanna, Sanjeev *see* **Guruswami, Venkatesan et al., 2004i:68083** *and* **Chekuri, Chandra, (2004a:68002)**

Kiwi, Marcos A. (*with* Magniez, Frédéric; Santha, Miklos) Exact and approximate testing/correcting of algebraic functions: a survey. (English summary) **2004a:68111**

Klasing, Ralf (*with* Laforest, Christian) Hardness results and approximation algorithms of k-tuple domination in graphs.

— *see also* **Böckenhauer, Hans-Joachim et al., (2004j:68011)**

Kleinberg, Jon (*with* Papadimitriou, Christos H.; Raghavan, Prabhakar) Auditing Boolean attributes. (English summary) **2004m:68035**

Klíma, Ondřej Unification modulo associativity and idempotency is NP-complete. (English summary)

Köbler, Johannes (*with* Torán, Jacobo) The complexity of graph isomorphism for colored graphs with color classes of size 2 and 3. (English summary) **2004m:68096**

— *see also* **Jenner, Birgit et al., 2004c:68038**

Koiran, Pascal *see* **Chistov, A. L. et al., 2004h:15026**

Kolaitis, Phokion G. (*with* Panttaja, Jonathan) On the complexity of existential pebble games. (English summary) **2004m:03118**

Könemann, Jochen (*with* Li, Yan Jun; Parekh, Ojas; Sinha, Amitabh) Approximation algorithms for edge-dilation k-center problems. (English summary)

Kontogiannis, Spyros *see* **Fotakis, Dimitris A. et al.**

Korovin, Konstantin (*with* Voronkov, Andrei) Knuth-Bendix constraint solving is NP-complete. (English summary)

Korst, Jan *see* **Michiels, Wil, 2004i:68087**

Kortsarz, Guy *see* **Feige, Uriel et al., 2004d:05139**

Koucký, Michal Log-space constructible universal traversal sequences for cycles of length $O(n^{4.03})$. (English summary) **2004a:68031**

Koulgi, Prashant (*with* Tuncel, Ertem; Regunathan, Shankar L.; Rose, Kenneth) On zero-error source coding with decoder side information. (English summary) **2004b:94042**

Koutsoupias, Elias *see* **Fotakis, Dimitris A. et al.**

Kovalëv, M. Ya. *see* **Błażewicz, Jacek, 2004i:68075**

Kráľ, Daniel (*with* Kratochvíl, Jan; Voss, Heinz-Jürgen) Mixed hypergraphs with bounded degree: edge-coloring of mixed multigraphs. (English summary) **2004e:05129**

Kratochvíl, Jan *see* **Kráľ, Daniel et al., 2004e:05129**

Krause, Matthias On the computational power of Boolean decision lists. (English summary) **2004m:68066**

Kreinovich, Vladik *see* **Walster, G. William, 2004d:90144**

Krishnamurthy, Rajaeskar *see* **Chakaravarthy, Venkatesan T.**

Krivelevich, Michael (*with* Sudakov, Benny) Approximate coloring of uniform hypergraphs. (English summary) **2004m:05183**

Krokhin, Andrei (*with* Jeavons, Peter; Jonsson, Peter) The complexity of constraints on intervals and lengths. (English summary) **2004m:68215**

Kučera, Antonín[2] (*with* Mayr, Richard) On the complexity of semantic equivalences for pushdown automata and BPA. (English summary)

— The complexity of bisimilarity-checking for one-counter processes. (English summary) **2004e:68073**

— *see also* **Jančar, Petr et al., 2004k:68110**

Küsters, Ralf *see* **Chevalier, Yannick et al., 2004m:94038**

Kutylowski, Mirosław *see* **Jurdziński, Tomasz**

Lacko, Vladimír *see* **Berežný, Štefan, 2004c:05184**

Laforest, Christian *see* **Klasing, Ralf**

Lafortune, Stéphane[1] *see* **Rohloff, Kurt et al., 2004i:93117**

Lanctot, J. Kevin (*with* Li, Ming[1]; Ma, Bin; Wang, Shaojiu; Zhang, Louxin) Distinguishing string selection problems. (English summary) **2004i:68241**

Lange, Martin (*with* Stirling, Colin) Model checking fixed point logic with chop. (English summary) **2004a:68089**

Laporte, Gilbert *see* **Gendreau, Michel et al., 2004k:90058**

Larmore, Lawrence L. *see* **Berman, Piotr et al., 2004b:68180** *and* **Bein, Wolfgang W. et al., 2004f:68026**

Larose, Benoit (*with* Zádori, László) The complexity of the extendibility problem for finite posets. (English summary) **2004h:06007**

Latifi, Shahram *see* **Bein, Wolfgang W. et al., 2004f:68026**

Le, Hoàng-Oanh *see* **Brandstädt, Andreas et al., 2004h:05120**

Le, Van Bang *see* **Brandstädt, Andreas et al., 2004h:05120**

Lea, Chin-Tau *see* **Fleischer, Rudolf et al.**

Lechuga, Luis *see* **Garvín, Antonio, 2004b:55020**

Lee, Richard Char Tung *see* **Lu, Chin Lung et al., 2004f:05178**

Lee, SingLing (*with* Ho, Hann-Jang) On minimizing the maximum congestion for weighted hypergraph embedding in a cycle. (English summary) **2004f:05177**

Lee, Tae-Eog *see* **Hall, Nicholas G. et al., 2004g:90041**

Li, Ji Qian *see* **Diao, Ke Feng et al.**

Li, Jianping[1] A sequencing problem for variable length tasks in multiprocessors. (Chinese. English and Chinese summaries) **2004b:68020**

Li, Ming[1] *see* **Lanctot, J. Kevin et al., 2004i:68241**

Li, Yan Jun *see* **Könemann, Jochen et al.**

Lin, Guo-Hui *see* **Chen, Zhi-Zhong et al., 2004f:92019**

Lipton, Richard J. *see* **Karakostas, George et al., 2004c:68039**

Liśkiewicz, Maciej (*with* Ogihara, Mitsunori; Toda, Seinosuke) The complexity of counting self-avoiding walks in subgraphs of two-dimensional grids and hypercubes. (English summary) **2004c:68041**

Liu, Zhaohui *see* **Cheng, T. C. Edwin et al., 2004g:90037**

Lokam, Satyanarayana V. Graph complexity and slice functions. (English summary) **2004b:68067**

Lotz, Martin (*with* Makowsky, Johann A.) On the algebraic complexity of some families of coloured Tutte polynomials. (English summary) **2004k:05116**

Lu, Chin Lung (*with* Tang, Chuan Yi; Lee, Richard Char Tung) The full Steiner tree problem in phylogeny. (English summary)

— (*with* Tang, Chuan Yi; Lee, Richard Char Tung) The full Steiner tree problem. (English summary) **2004f:05178**

Luks, Eugene M. (*with* Roy, Amitabha) The complexity of symmetry-breaking formulas. (English summary) **2004m:68216**

Ma, Bin *see* **Lanctot, J. Kevin et al., 2004i:68241**

Magniez, Frédéric *see* **Kiwi, Marcos A. et al., 2004a:68111**

Mahajan, Meena *see* **Allender, Eric et al., 2004d:68040**

Mäkinen, Veli (*with* Ukkonen, Esko) Local similarity based point-pattern matching. (English summary)

Makino, Kazuhisa *see* **Boros, Endre et al., 2004m:68086** *and* **Eiter, Thomas, 2004m:68220**

Makowsky, Johann A. (*with* Mariño, J. P.) Farrell polynomials on graphs of bounded tree width. (English summary) **2004g:05146**

— *see also* **Lotz, Martin, 2004k:05116**

Maksimova, Larisa Complexity of some problems in positive and related calculi. (English summary) **2004g:03064**

Malcher, Andreas Minimizing finite automata is computationally hard. (English summary) (*see* **2004j:68010**)

Mandel, Arnaldo *see* **Fernandes, Cristina G. et al., 2004m:20107**

Marcinkowski, Jerzy (*with* Pacholski, Leszek) Thue trees. (English summary) **2004d:03022**

Mariño, J. P. *see* **Makowsky, Johann A., 2004g:05146**

Markou, Euripides (*with* Zachos, Stathis; Fragoudakis, Christodoulos) Maximizing the guarded boundary of an art gallery is APX-complete. (English summary) (*see* **2004j:68002**)

Maruoka, Akira *see* **Amano, Kazuyuki et al., 2004a:68042** *and* **(2004j:68002)**

Mavronicolas, Marios *see* **Fotakis, Dimitris A. et al.**

Mayr, Richard *see* **Kučera, Antonín**[2]

McCartin, Catherine *see* **Allender, Eric, (2004d:68050)**

McKenzie, Pierre *see* **Jenner, Birgit et al., 2004c:68038**

Metel'skiĭ, Yu. M. (*with* Tyshkevich, Regina) Line graphs of Helly hypergraphs. (English summary) **2004g:05111**

Michiels, Wil (*with* Korst, Jan) Min-max subsequence problems in multi-zone disk recording. (English summary) **2004i:68087**

Migdalas, Athanasios *see* **Pardalos, Panos M.**

Miller, Webb *see* **Veeramachaneni, Vamsi et al., 2004k:92035**

Mitchell, Joseph S. B. *see* **Arkin, Esther M. et al., 2004d:68161**

Mohar, Bojan *see* **Feder, Tomás et al., 2004m:05098**

Moller, Faron *see* **Jančar, Petr et al., 2004k:68110**

Muscholl, Anca *see* **Diekert, Volker**

Narayanaswamy, N. S. *see* **Johannsen, Jan**

Nešetřil, Jaroslav *see* **Broersma, H. J. et al.**

Newman, Ilan *see* **Buhrman, Harry et al., (2004a:68002)**

Niehren, Joachim (*with* Priesnitz, Tim) Non-structural subtype entailment in automata theory. (English summary) **2004k:68023**

Niemann, Gundula *see* **Beaudry, M. et al., 2004a:68061**

Nikoletseas, Sotiris E. *see* **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**

Nikolov, Nikola S. *see* **Healy, Patrick**

Nourine, Lhouari *see* **Habib, Michel et al., 2004k:68068**

Núñez-Valdés, Juan *see* **Boza, Luis et al., 2004m:05075**

Ogihara, Mitsunori *see* **Beygelzimer, Alina, 2004b:68051** *and* **Liśkiewicz, Maciej et al., 2004c:68041**

O'Reilly, Una-May (*with* Santoro, Nicola) Tight bounds for synchronous communication of information using bits and silence. (English summary) **2004g:68009**

Otto, Friedrich *see* **Beaudry, M. et al., 2004a:68061**

Overmars, Mark *see* **Soss, Michael et al., 2004j:68183**

Pacholski, Leszek *see* **Marcinkowski, Jerzy, 2004d:03022**

Packer, Asa Polynomial-time approximation of largest simplices in V-polytopes. (English summary) **2004k:68183**

Palopoli, Luigi *see* **Angiulli, Fabrizio et al., 2004f:68044**

Palsberg, Jens (*with* Zhao, Tian) Type inference for record concatenation and subtyping. (English summary) **2004k:68030**

Panconesi, Alessandro *see* **Caprara, Alberto et al., 2004h:05121**

Panttaja, Jonathan *see* **Kolaitis, Phokion G., 2004m:03118**

Papadimitriou, Christos H. *see* **Kleinberg, Jon et al., 2004m:68035**

Papadopoulou, Vicky G. *see* **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**

Pardalos, Panos M. (*with* Migdalas, Athanasios) A note on the complexity of longest path problems related to graph coloring. (English summary)

Parekh, Ojas *see* **Könemann, Jochen et al.**

Paschos, Vangelis Th. Polynomial approximation and graph-coloring. (English summary) **2004b:68192**

— *see also* **Demange, Marc**, **2004e:68122** *and* **2004h:68153**
Pasechnik, Dmitrii V. *see* **Grigor'ev, D. Yu. et al.**, **2004e:03094**
Paterson, M. S. *see* **Goldberg, Leslie Ann et al.**, **2004f:82007**
Pichler, Reinhard Explicit versus implicit representations of subsets of the Herbrand universe. (English summary) **2004c:68123**
Pietrzak, Krzysztof On the parameterized complexity of the fixed alphabet shortest common supersequence and longest common subsequence problems. (English summary) **2004m:68100**
Plandowski, Wojciech *see* **Berman, Piotr et al.**, **2004b:68180**
Posner, Marc E. *see* **Hall, Nicholas G. et al.**, **2004g:90041**
Pratt-Hartmann, Ian Fragments of language. (English summary) **2004m:68248**
Priesnitz, Tim *see* **Niehren, Joachim**, **2004k:68023**
Proietti, Guido *see* **Böckenhauer, Hans-Joachim et al.**, (**2004j:68011**)
Raghavan, Prabhakar *see* **Kleinberg, Jon et al.**, **2004m:68035**
Rajaraman, Rajmohan *see* **Guruswami, Venkatesan et al.**, **2004i:68083**
Raynaud, O. *see* **Habib, Michel et al.**, **2004k:68068**
Raz, Ran $P \neq NP$, propositional proof complexity, and resolution lower bounds for the weak pigeonhole principle. (English summary) **2004a:68032**
Razborov, A. A. Proof complexity of pigeonhole principles. (English summary) **2004a:03065**
— Resolution lower bounds for the weak functional pigeonhole principle. (English summary) **2004j:03076**
Reed, Bruce A. *see* **Călinescu, Gruia et al.**, **2004f:68187**
Regunathan, Shankar L. *see* **Koulgi, Prashant et al.**, **2004b:94042**
Reith, Steffen (*with* Vollmer, Heribert) Optimal satisfiability for propositional calculi and constraint satisfaction problems. (English summary) **2004h:68058**
Reynolds, Mark Alexander The complexity of the temporal logic with "until" over general linear time. (English summary) **2004f:03026**
Rhee, Injong (*with* Welch, Jennifer L.) The impact of timing knowledge on the session problem. (English summary) **2004i:68013**
Richter, Yossi *see* **Azar, Yossi et al.**
Rizzi, Romeo *see* **Caprara, Alberto et al.**, **2004h:05121**
Rohloff, Kurt (*with* Yoo, Tae-Sic; Lafortune, Stéphane[1]) Deciding co-observability is PSPACE-complete. (English summary) **2004i:93117**
Röhrig, Hein *see* **Buhrman, Harry et al.**, (**2004a:68002**)
Ron, Dana Property testing. **2004c:68161**
Rosaz, Laurent The word problem for $1\mathscr{LC}$ congruences is NP-hard. (English summary) **2004g:68097**
Rose, Kenneth *see* **Koulgi, Prashant et al.**, **2004b:94042**
Roy, Amitabha *see* **Luks, Eugene M.**, **2004m:68216**
Rusinowitch, Michaël *see* **Chevalier, Yannick et al.**, **2004m:94038**
Rytter, Wojciech *see* **Berman, Piotr et al.**, **2004b:68180**
Saito, Taiichi *see* **Yamamura, Akihiro**, **2004i:94048**
Salvati, Sylvain (*with* de Groote, Philippe) On the complexity of higher-order matching in the linear λ-calculus. (English summary)
Santha, Miklos *see* **Kiwi, Marcos A. et al.**, **2004a:68111**
Santoro, Nicola *see* **O'Reilly, Una-May**, **2004g:68009**
Sauerhoff, Martin *see* **Hromkovič, Juraj**, **2004c:68035**
Sawa, Zdeněk *see* **Jančar, Petr et al.**, **2004k:68110**
Schulz, Andreas S. *see* **Eisenbrand, Friedrich**, **2004i:52007**
Schwartz, Alexander *see* **Kaibel, Volker**, **2004e:05125**
Schwoon, Stefan *see* **Holzer, Markus**
Seibert, Sebastian *see* **Böckenhauer, Hans-Joachim et al.**, (**2004j:68011**)
Seif, Steve (*with* Szabó, Csaba) Algebra complexity problems involving graph homomorphism, semigroups and the constraint satisfaction problem. (English summary) **2004c:68056**
Semet, Frédéric *see* **Gendreau, Michel et al.**, **2004k:90058**
Serna, Maria José *see* **Diaz, Josep et al.**
Shachnai, Hadas (*with* Tamir, Tami) Tight bounds for online class-constrained packing. (English summary) **2004a:68045**
Shafranskiĭ, Ya. M. *see* **Cheng, T. C. Edwin et al.**, **2004g:90037**
Shepherd, F. Bruce *see* **Guruswami, Venkatesan et al.**, **2004i:68083**
Shieh, Yuh-Pyng *see* **Hsiang, Jieh et al.**, **2004m:05134**
Shparlinski, Igor E. *see* **Codenotti, Bruno et al.**, **2004m:15010**
Silvestri, Riccardo *see* **De Agostino, Sergio**, **2004a:68043**
Sinha, Amitabh *see* **Könemann, Jochen et al.**
Sitters, René A. Two NP-hardness results for preemptive minsum scheduling of unrelated parallel machines. (English summary) **2004m:90056**
Sorea, Maria A decidable fixpoint logic for time-outs. (English summary) (*see* **2004j:68004**)
Soss, Michael (*with* Erickson, Jeff; Overmars, Mark) Preprocessing chains for fast dihedral rotations is hard or even impossible. (English summary) **2004j:68183**
Spirakis, Paul G. *see* **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**
Srba, Jiří Strong bisimilarity and regularity of basic parallel processes is PSPACE-hard. (English summary) **2004m:68182**
— Strong bisimilarity of simple process algebras: complexity lower bounds. (English summary) **2004e:68074**
— Complexity of weak bisimilarity and regularity for BPA and BPP. (English summary) **2004j:68136**
Srinivasan, Aravind *see* **Feige, Uriel et al.**, **2004d:05139**
van Stee, Rob *see* **Epstein, Leah**, **2004b:90038**
Stefanakos, Stamatis *see* **Anand, R. Sai et al.**
Stiegeler, Patrick *see* **Edelkamp, Stefan**, **2004c:68168**
Stirling, Colin *see* **Lange, Martin**, **2004a:68089**
Subramani, K. On deciding the non-emptiness of 2SAT polytopes with respect to first order queries. (English summary) **2004m:68101**
Sudakov, Benny *see* **Krivelevich, Michael**, **2004m:05183**
(Sudan, Madhu) *see* **Wigderson, Avi**, **2004e:01056** *and* **Goldwasser, Shafi**, **2004e:68034**
Sudborough, I. Hal *see* **Bein, Wolfgang W. et al.**, **2004f:68026**
Sun, Xiaoming A 3-party simultaneous protocol for SUM-INDEX. (English summary) **2004c:68057**
Sung, Shao Chin (*with* Tanaka, Keisuke) Limiting negations in bounded-depth circuits: an extension of Markov's theorem. (English summary) **2004k:94104**
Sutner, Klaus The size of power automata. (English summary) **2004e:68060**
Švejdar, Vítězslav On the polynomial-space completeness of intuitionistic propositional logic. (English summary) **2004k:03021**
— The decision problem of provability logic with only one atom. (English summary) **2004k:03078**
Szabó, Csaba *see* **Seif, Steve**, **2004c:68056**
Tamir, Tami *see* **Shachnai, Hadas**, **2004a:68045**
Tanaka, Keisuke *see* **Sung, Shao Chin**, **2004k:94104**
Tang, Chuan Yi *see* **Lu, Chin Lung et al.**, **2004f:05178**
Tantau, Till Query complexity of membership comparable sets. (English summary) **2004d:68048**
Tarui, Jun *see* **Amano, Kazuyuki et al.**, **2004a:68042**
Thierry, Éric *see* **Habib, Michel et al.**, **2004k:68068**
Thilikos, Dimitris M. *see* **Díaz, Josep et al.**
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Torán, Jacobo *see* **Jenner, Birgit et al.**, **2004c:68038** *and* **Köbler, Johannes**, **2004m:68096**
Trevisan, Luca *see* **Goldreich, Oded**, **2004i:68081**
Tuncel, Ertem *see* **Koulgi, Prashant et al.**, **2004b:94042**
Turuani, Mathieu *see* **Chevalier, Yannick et al.**, **2004m:94038**
Tyshkevich, Regina *see* **Metel'skiĭ, Yu. M.**, **2004g:05111**
Ukkonen, Esko *see* **Mäkinen, Veli**
Unger, Walter *see* **Böckenhauer, Hans-Joachim et al.**, (**2004j:68011**)
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Vollmer, Heribert *see* **Reith, Steffen**, **2004h:68058**
Voronkov, Andrei *see* **Korovin, Konstantin**
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Wang, Shaojiu *see* **Lanctot, J. Kevin et al.**, **2004i:68241**
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Welch, Jennifer L. *see* **Rhee, Injong**, **2004i:68013**
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Wigderson, Avi On the work of Madhu Sudan. (English summary) **2004e:01056**
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Winterhof, Arne *see* **Codenotti, Bruno et al.**, **2004m:15010**
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Yamamura, Akihiro (*with* Saito, Taiichi) Subgroup membership problem and its applications to information security. (English summary) **2004i:94048**
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Yoo, Tae-Sic *see* **Rohloff, Kurt et al.**, **2004i:93117**
Zachos, Stathis *see* **Markou, Euripides et al.**, (**2004j:68002**)
Zádori, László *see* **Larose, Benoit**, **2004h:06007**
Zhang, Louxin *see* **Lanctot, J. Kevin et al.**, **2004i:68241**
Zhang, Pixing *see* **Deng, Xiao-Tie et al.**, **2004k:68066**
Zhang, Yu Zhong[1] *see* **Deng, Xiao-Tie et al.**, **2004k:68066**
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Zhao, Tian *see* **Palsberg, Jens**, **2004k:68030**
Zhao, Xi-Shun Complexity of argument-based default reasoning with specificity. (English summary) **2004e:68102**
Zheng, Da Zhong *see* **Zhao, Qian Chuan**, **2004i:93120**
Zhou, Hui Shan *see* **Diao, Ke Feng et al.**
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68Q19 Descriptive complexity and finite models [see also 03C13]

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Givan, Robert (*with* McAllester, David) Polynomial-time computation via local inference relations. (English summary) **2004m:68083**
Gottlob, Georg *see* **Eiter, Thomas et al., 2004a:68041**
Grohe, Martin *see* **Flum, Jörg, 2004m:68082**
Gurevich, Yuri *see* **Blass, Andreas et al., 2004a:68039** *and* **2004e:68038**
Hachaïchi, Yassine A descriptive complexity approach to the linear hierarchy. (English summary) **2004k:68062**
Hella, Lauri *see* **Lemström, Kjell, 2004i:68072**
Immerman, Neil *see* **Adler, Micah, 2004f:68043**
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Madelaine, Florent R. (*with* Stewart, Iain A.) Some problems not definable using structure homomorphisms. (English summary) **2004c:68049**
McAllester, David *see* **Givan, Robert, 2004m:68083**
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de Rougemont, Michel *see* **Afrati, Foto et al., 2004m:68079**
Schwentick, Thomas *see* **Eiter, Thomas et al., 2004a:68041**
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Barrington, David A. Mix *see* **Hesse, William et al., 2004b:68057**
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Kolokolova, Antonina *see* **Cook, Stephen A., 2004i:03097**
Kreutzer, Stephan Partial fixed-point logic on infinite structures. (English summary) **2004m:03119**
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Lee, Troy Arithmetical definability over finite structures. (English summary) **2004i:03059**
Libkin, Leonid *see* **Dong, Guozhu et al., 2004b:68035**
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Menconi, Giulia *see* **Benci, Vieri, 2004k:37026**
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Schweikardt, Nicole *see* **Matz, Oliver et al., 2004f:03061**
Thomas, Wolfgang *see* **Matz, Oliver et al., 2004f:03061**
Wong, Limsoon *see* **Dong, Guozhu et al., 2004b:68035**

68Q25 Analysis of algorithms and problem complexity [see also 68W40]

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Alon, Noga (*with* Shapira, Asaf) Testing satisfiability. (English summary) **2004g:68053**
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Alonso, Laurent (*with* Chassaing, Philippe; Reingold, Edward M.; Schott, René) The worst-case chip problem. (English summary) **2004k:68063**
Àlvarez, Carme (*with* Blesa, M.; Díaz, Josep; Fernández, Antonio[1]; Serna, Maria José) The complexity of deciding stability under FFS in the adversarial queueing model. (English summary) **2004m:68084**
Amano, Kazuyuki (*with* Maruoka, Akira) Some properties of MOD_m circuits computing simple functions. (English summary) (*see* **2004j:68002**)
— (*with* Maruoka, Akira; Tarui, Jun) On the negation-limited circuit complexity of merging. (English summary) **2004a:68042**
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Ambainis, Andris (*with* Freivalds, Rūsiņš Mārtiņš) Boolean function with a low polynomial degree. (English and Latvian summaries) **2004i:68073**
Anand, R. Sai (*with* Erlebach, Thomas; Hall, Alexander; Stefanakos, Stamatis) Call control with k rejections. (English summary)
Andoni, A. (*with* Deza, Michel-Marie; Gupta, Ajay K.; Indyk, Piotr; Raskhodnikova, S.) Lower bounds for embedding edit distance into normed spaces. (English summary) (*see* **2004a:68002**)
Angiulli, Fabrizio (*with* Ben-Eliyahu-Zohary, Rachel; Ianni, Giovambattista; Palopoli, Luigi) Computational properties of metaquerying problems. (English summary) **2004f:68044**
Bae, Yongeun *see* **Chung, Ilyong, 2004i:68076**
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Bakoev, Valentin P. Generating and identification of monotone Boolean functions. (English and Bulgarian summaries) **2004h:68053**
Bannai, Hideo *see* **Akutsu, Tatsuya et al.**
Başçiftçi, Fatih *see* **Kahramanli, Şirzat, 2004m:68095**
Beame, Paul (*with* Fich, Faith E.) Optimal bounds for the predecessor problem and related problems. (English summary) **2004j:68072**
Ben-Amram, Amir M. (*with* Berkman, Omer; Petersen, Holger) Element distinctness on one-tape Turing machines: a complete solution. (English summary) **2004i:68074**
Ben-Eliyahu-Zohary, Rachel *see* **Angiulli, Fabrizio et al., 2004f:68044**
Berkman, Omer *see* **Ben-Amram, Amir M. et al., 2004i:68074**
Biere, Armin *see* **Plaisted, David A. et al., 2004i:68088**
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— (*with* Kovalëv, M. Ya.) The complexity of two group scheduling problems. (English summary) **2004i:68075**
Blesa, M. *see* **Àlvarez, Carme et al., 2004m:68084**
Bodlaender, Hans L. (*with* Rotics, Udi) Computing the treewidth and the minimum fill-in with the modular decomposition. (English summary)
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Brandstädt, Andreas *see* **Bodlaender, Hans L. et al.**
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Buchsbaum, Adam L. (*with* Giancarlo, Raffaele; Westbrook, Jeffery R.) On finding common neighborhoods in massive graphs. (English summary) **2004j:68073**
Cai, Leizhen Parameterized complexity of vertex colouring. (English summary) **2004m:68087**
Cannon, Adam H. (*with* Cowen, Lenore J.) Approximation algorithms for the class cover problem. (English summary) **2004k:68064**
Caprara, Alberto Additive bounding, worst-case analysis, and the breakpoint median problem. (English summary) **2004b:68064**
Carton, Olivier Accessibility in automata on scattered linear orderings. (English summary)
Chashkin, A. V. The average complexity of symmetric Boolean functions. (Russian. Russian summary) **2004e:68039**
— Average time of computing Boolean operators. (English summary)
— Local complexity of Boolean functions. (English summary)
Chassaing, Philippe *see* **Alonso, Laurent et al., 2004k:68063**
Cheetham, James (*with* Dehne, Frank; Rau-Chaplin, Andrew; Stege, Ulrike; Taillon, Peter J.) Solving large FPT problems on coarse-grained parallel machines. (English summary) **2004k:68065**
Chekuri, Chandra (*with* Khanna, Sanjeev) Edge disjoint paths revisited. (English summary) (*see* **2004a:68002**)
Chen, Danny Z. (*with* Daescu, Ovidiu; Hu, Xiaobo; Xu, Jinhui) Finding an optimal path without growing the tree. (English summary) **2004m:68088**
Chen, Jian Er *see* **Jia, Weijia et al., 2004j:68078**
Chen, Zhi-Zhong *see* **Lin, Guo-Hui et al.**
Cherukhin, D. Yu. On the complexity of unitary transformations. (Russian. Russian summary)
Chikalov, Igor On average depth of decision trees implementing Boolean functions. (English summary) **2004g:68054**
Chung, Ilyong (*with* Bae, Yongeun) The design of an efficient load balancing algorithm employing block design. (English summary) **2004i:68076**
Coarfa, Cristian (*with* Demopoulos, Demetrios D.; San Miguel Aguirre, Alfonso; Subramanian, Devika; Vardi, Moshe Y.) Random 3-SAT: the plot thickens. (English summary) **2004i:68077**
Cohen, David A. (*with* Jeavons, Peter; Gault, Richard) New tractable classes from old. (English summary) **2004j:68074**
Cole, Richard (*with* Hariharan, Ramesh) Tree pattern matching to subset matching in linear time. (English summary) **2004i:68078**
Coppersmith, Don (*with* Gamarnik, David; Hajiaghayi, Mohammad Taghi; Sorkin, Gregory B.) Random MAX SAT, random MAX CUT, and their phase transitions. (English summary) (*see* **2004a:68002**)
Cowen, Lenore J. *see* **Cannon, Adam H., 2004k:68064**
Creignou, Nadia (*with* Daudé, Hervé) Smooth and sharp thresholds for random k-XOR-CNF satisfiability. (English summary) **2004i:68079**
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Crescenzi, Pierluigi (*with* Greco, Federico) The minimum likely column cover problem. (English summary) **2004j:68075**
Daescu, Ovidiu *see* **Chen, Danny Z. et al., 2004m:68088**
Dahllöf, Vilhelm (*with* Jonsson, Peter; Wahlström, Magnus) Counting satisfying

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Dantas, Simone (*with* de Figueiredo, Celina M. H.; Faria, Luerbio) On the complexity of (k, l)-graph sandwich problems. (English summary)
Dar, Seannie *see* **Alon, Noga et al., 2004h:68052**
Daudé, Hervé *see* **Creignou, Nadia, 2004d:68055** *and* **2004i:68079**
De Agostino, Sergio (*with* Silvestri, Riccardo) Bounded size dictionary compression: SC^k-completeness and NC algorithms. (English summary) **2004a:68043**
Dehne, Frank *see* **Cheetham, James et al., 2004k:68065**
Dekhtyar, Mikhail I. (*with* Dikovskiĭ, A. Ya.; Valiev, M. K.) Complexity of multi-agent systems behavior. (English summary) (*see* **2004j:68015**)
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Deza, Michel-Marie *see* **Andoni, A. et al., (2004a:68002)**
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— *see also* **Àlvarez, Carme et al., 2004m:68084**
Dikovskiĭ, A. Ya. *see* **Dekhtyar, Mikhail I. et al., (2004j:68015)**
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Dujmović, Vida (*with* Fellows, Michael R.; Hallett, Michael T.; et al.) A fixed-parameter approach to two-layer planarization. (English summary) **2004b:68065**
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Dyer, Martin E. (*with* Goldberg, Leslie Ann; Jerrum, Mark) Counting and sampling H-colourings. (English summary) **2004m:68089**
Eiter, Thomas (*with* Gottlob, Georg; Makino, Kazuhisa) New results on monotone dualization and generating hypergraph transversals. (English summary) **2004c:68051**
Ellis, John A. (*with* Fan, Hongbing; Fellows, Michael R.) The dominating set problem is fixed parameter tractable for graphs of bounded genus. (English summary)
Engebretsen, Lars (*with* Guruswami, Venkatesan) Is constraint satisfaction over two variables always easy? (English summary) **2004m:68090**
Epstein, Leah (*with* Imreh, Csanád; van Stee, Rob) More on weighted servers or FIFO is better than LRU. (English summary) **2004g:68058**
— *see also* **Seiden, Steven S. et al., 2004e:68042**
Erlebach, Thomas *see* **Anand, R. Sai et al.**
Evans, Patricia A. (*with* Smith, Andrew David; Wareham, H. Todd) On the complexity of finding common approximate substrings. (English summary) **2004g:68059**
Fagerberg, Rolf *see* **Brodal, Gerth Stølting et al.**
Fan, Hongbing *see* **Ellis, John A. et al.**
Faria, Luerbio *see* **Dantas, Simone et al.**
Feder, Tomás (*with* Motwani, Rajeev) Worst-case time bounds for coloring and satisfiability problems. (English summary) **2004f:68045**
Feigenbaum, Joan (*with* Krishnamurthy, Arvind[1]; Sami, Rahul; Shenker, Scott) Hardness results for multicast cost sharing (extended abstract). (English summary) (*see* **2004j:68011**)
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— *see also* **Dujmović, Vida et al., 2004b:68065**; **Alber, Jochen et al.** *and* **Ellis, John A. et al.**
Feng, Haodi *see* **Deng, Xiao-Tie et al., 2004k:68066**
Fernández, Antonio[1] *see* **Àlvarez, Carme et al., 2004m:68084**
Fernández-Baca, David (*with* Lagergren, Jens) A polynomial-time algorithm for near-perfect phylogeny. (English summary) **2004i:68080**
Fernau, Henning On parameterized enumeration. (English summary)
— Complexity of a $\{0, 1\}$-matrix problem. (English summary) **2004k:68067**
— *see also* **Alber, Jochen et al.**
Fiala, Jiří (*with* Kratochvíl, Jan; Proskurowski, Andrzej) Geometric systems of disjoint representatives. (English summary)
Fich, Faith E. *see* **Beame, Paul, 2004j:68072**
de Figueiredo, Celina M. H. *see* **Dantas, Simone et al.**
Fischer, Eldar (*with* Newman, Ilan; Sgall, Jiří) Functions that have read-twice constant width branching programs are not necessarily testable. (English summary) **2004j:68076**
Flaxman, Abraham A spectral technique for random satisfiable 3CNF formulas. (English summary) (*see* **2004a:68002**)
Fleischer, Rudolf (*with* Golin, Mordecai J.; Lea, Chin-Tau; Wong, Steven) Finding optimal paths in MREP routing. (English summary)
Formanowicz, Piotr *see* **Błażewicz, Jacek et al.**
Fotakis, Dimitris A. (*with* Kontogiannis, Spyros; Koutsoupias, Elias; Mavronicolas, Marios; Spirakis, Paul G.) The structure and complexity of Nash equilibria for a selfish routing game. (English summary)
Freivalds, Rūsiņš Mārtiņš *see* **Ambainis, Andris, 2004i:68073**
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Gaĭnutdinova, A. F. On the relative complexity of quantum and classical branching programs. (Russian. Russian summary) **2004e:68041**
Galbiati, Giulia On finding cycle bases and fundamental cycle bases with a shortest maximal cycle. (English summary) **2004h:68056**
Gamarnik, David *see* **Coppersmith, Don et al., (2004a:68002)**
Gardi, Frédéric Efficient algorithms for disjoint matchings among intervals and related problems. (English summary) (*see* **2004k:68004**)
Gault, Richard *see* **Cohen, David A. et al., 2004j:68074**
Gelbukh, Alexander *see* **Adel′son-Vel′skiĭ, G. M. et al., (2004h:00019)**
Gerber, Michael U. (*with* Kobler, Daniel) Algorithms for vertex-partitioning problems on graphs with fixed clique-width. (English summary) **2004c:68052**
Giancarlo, Raffaele *see* **Buchsbaum, Adam L. et al., 2004j:68073**
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Giunchiglia, Enrico (*with* Maratea, Marco; Tacchella, Armando) Dependent and independent variables in propositional satisfiability. (English summary) (*see* **2004j:68015**)
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— *see also* **Friedman, Joel**
Goldberg, Leslie Ann *see* **Dyer, Martin E. et al., 2004m:68089**
Goldreich, Oded (*with* Wigderson, Avi) Derandomization that is rarely wrong from short advice that is typically good. (English summary) **2004m:68091**
— (*with* Trevisan, Luca) Three theorems regarding testing graph properties. (English summary) **2004i:68081**
Golin, Mordecai J. *see* **Fleischer, Rudolf et al.**
Gorazd, Tomasz A. Fast isomorphism testing in arithmetical varieties. (English summary) **2004i:68082**
Gottlob, Georg *see* **Eiter, Thomas et al., 2004c:68051**
Goubault-Larrecq, Jean Higher-order positive set constraints. (English summary) **2004m:68092**
Gramm, Jens (*with* Guo, Jiong; Hüffner, Falk; Niedermeier, Rolf) Graph-modeled data clustering: fixed-parameter algorithms for clique generation. (English summary) (*see* **2004j:68002**)
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— *see also* **Alber, Jochen et al.**
Greco, Federico *see* **Crescenzi, Pierluigi, 2004j:68075**
Greenberg, Ronald I. Fast and space-efficient location of heavy or dense segments in run-length encoded sequences (extended abstract). (English summary)
Guo, Jiong *see* **Gramm, Jens et al., (2004j:68002)** *and* **Alber, Jochen et al.**
Gupta, Ajay K. *see* **Andoni, A. et al., (2004a:68002)**
Guruswami, Venkatesan (*with* Khanna, Sanjeev; Rajaraman, Rajmohan; Shepherd, F. Bruce; Yannakakis, Mihalis) Near-optimal hardness results and approximation algorithms for edge-disjoint paths and related problems. (English summary) **2004i:68083**
— *see also* **Engebretsen, Lars, 2004m:68090**
Gurvich, Vladimir *see* **Boros, Endre et al., 2004m:68086**
Gutiérrez, Claudio Equations in free semigroups with involution and their relation to equations in free groups. (English summary) **2004d:68056**
Habib, Michel (*with* Nourine, Lhouari; Raynaud, O.; Thierry, Éric) Computational aspects of the 2-dimension of partially ordered sets. (English summary) **2004k:68068**
Hajiaghayi, Mohammad Taghi *see* **Coppersmith, Don et al., (2004a:68002)**
Hall, Alexander *see* **Anand, R. Sai et al.**
Hallett, Michael T. *see* **Dujmović, Vida et al., 2004b:68065**
Hariharan, Ramesh *see* **Cole, Richard, 2004i:68078**
Hemaspaandra, Edith *see* **Böhler, Elmar et al., 2004m:68085**
Hermanns, Holger *see* **Derisavi, Salem et al., 2004g:68055** *and* **Baier, Christel et al., 2004j:68071**
Hesse, William Division is in uniform TC^0. (English summary)
Hirsch, Edward A. *see* **Gramm, Jens et al., 2004j:68077**
Hirvensalo, Mika (*with* Karhumäki, Juhani) Computing partial information out of intractable one—the first digit of 2^n at base 3 as an example. (English summary)
Hofmeister, Thomas (*with* Schöning, Uwe; Schuler, Rainer; Watanabe, Osamu[2]) A probabilistic 3-SAT algorithm further improved. (English summary) **2004m:68094**
Holzapfel, Klaus (*with* Kosub, Sven; Maaß, Moritz G.; Täubig, Hanjo) The complexity of detecting fixed-density clusters. (English summary) (*see* **2004j:68002**)
Horrocks, Ian Implementation and optimization techniques. (English summary) (*see* **2004e:68001**)
Høyer, Peter (*with* Neerbek, Jan; Shi, Yaoyun) Quantum complexities of ordered searching, sorting, and element distinctness. (English summary)
Hu, Xiaobo *see* **Chen, Danny Z. et al., 2004m:68088**
Hüffner, Falk *see* **Gramm, Jens et al., (2004j:68002)**
Hunsaker, Brady (*with* Kleywegt, Anton J.; Savelsbergh, Martin W. P.; Tovey, Craig A.) Optimal online algorithms for minimax resource scheduling. (English summary) **2004k:68069**
Ianni, Giovambattista *see* **Angiulli, Fabrizio et al., 2004f:68044**
Ibaraki, Toshihide *see* **Makino, Kazuhisa et al., 2004g:68060** *and* **Suzuki, Susumu, 2004k:68072**
Igel, Christian (*with* Toussaint, Marc) On classes of functions for which No Free Lunch results hold. **2004c:68053**
Imreh, Csanád *see* **Epstein, Leah et al., 2004g:68058**
Indyk, Piotr *see* **Andoni, A. et al., (2004a:68002)**
Iwama, Kazuo *see* **Amano, Kazuyuki et al., 2004c:68050**
Jakoby, Andreas (*with* Liśkiewicz, Maciej) Paths problems in symmetric logarithmic space. (English summary)
Jeannerod, Claude-Pierre *see* **Giorgi, Pascal et al., (2004j:68018)**
Jeavons, Peter *see* **Cohen, David A. et al., 2004j:68074**
Jebelean, Tudor Non-conventional algorithms for multiple precision arithmetic. (English summary)
Jerrum, Mark ★ Counting, sampling and integrating: algorithms and complexity. **2004a:68044**
— *see also* **Dyer, Martin E. et al., 2004m:68089**
Jia, Weijia (*with* Zhang, Chuanlin; Chen, Jian Er) An efficient parameterized algorithm for m-set packing. (English summary) **2004j:68078**
Jiang, Tao[1] *see* **Lin, Guo-Hui et al.**
Jonsson, Peter *see* **Dahllöf, Vilhelm et al.**
Jurdziński, Tomasz *see* **Goerdt, Andreas**

Kahramanli, Şirzat (*with* Başçiftçi, Fatih) Boolean functions simplification algorithm of $O(n)$ complexity. (English summary) **2004m:68095**
Karhumäki, Juhani *see* **Hirvensalo, Mika**
Kasprzak, Marta *see* **Błażewicz, Jacek et al.**
Katoen, Joost-Pieter *see* **Baier, Christel et al., 2004j:68071**
Khachiyan, Leonid *see* **Boros, Endre et al., 2004m:68086**
Khanna, Sanjeev *see* **Guruswami, Venkatesan et al., 2004i:68083** *and* **Chekuri, Chandra, (2004a:68002)**
King, Valerie (*with* Zhang, Li[6]; Zhou, Yunhong) On the complexity of distance-based evolutionary tree reconstruction. (English summary) (*see* **2004a:68002**)
Kis, Tamás *see* **Kovács, András**
Kleywegt, Anton J. *see* **Hunsaker, Brady et al., 2004k:68069**
Klíma, Ondřej Unification modulo associativity and idempotency is NP-complete. (English summary)
Kobler, Daniel (*with* Rotics, Udi) Finding maximum induced matchings in subclasses of claw-free and P_5-free graphs, and in graphs with matching and induced matching of equal maximum size. (English summary) **2004i:68084**
— *see also* **Gerber, Michael U., 2004c:68052**
Köbler, Johannes (*with* Torán, Jacobo) The complexity of graph isomorphism for colored graphs with color classes of size 2 and 3. (English summary) **2004m:68096**
Kontogiannis, Spyros *see* **Fotakis, Dimitris A. et al.**
Korst, Jan *see* **Michiels, Wil, 2004g:68061** *and* **2004i:68087**
Kosub, Sven *see* **Holzapfel, Klaus et al., (2004j:68002)**
Koutsoupias, Elias *see* **Fotakis, Dimitris A. et al.**
Kovács, András (*with* Kis, Tamás) Partitioning of trees for minimizing height and cardinality.
Kovalëv, M. Ya. *see* **Błażewicz, Jacek, 2004i:68075**
Kratochvíl, Jan *see* **Fiala, Jiří et al.**
Kratsch, Dieter (*with* Spinrad, Jeremy P.) Between $O(nm)$ and $O(n^\alpha)$. (English summary) (*see* **2004a:68002**)
— *see also* **Bodlaender, Hans L. et al.**
Kremer, Ilan (*with* Nisan, Noam; Ron, Dana) Errata for: "On randomized one-round communication complexity" [Comput. Complexity **8** (1999), no. 1, 21–49; MR 2000c:68070]. **2004d:68057**
Krishnamurthy, Arvind[1] *see* **Feigenbaum, Joan et al., (2004j:68011)**
Krzeszczakowski, Łukasz Pebble games on trees. (English summary) **2004m:68097**
Kučera, Antonín[2] (*with* Mayr, Richard) On the complexity of semantic equivalences for pushdown automata and BPA. (English summary)
Kullmann, Oliver Lean clause-sets: generalizations of minimally unsatisfiable clause-sets. (English summary) **2004i:68085**
Kumar, S. Ravi (*with* Sivakumar, D.) On polynomial-factor approximations to the shortest lattice vector length. (English summary) **2004i:68086**
Lagergren, Jens *see* **Fernández-Baca, David, 2004i:68080**
Lea, Chin-Tau *see* **Fleischer, Rudolf et al.**
Levner, E. V. *see* **Adel'son-Vel'skiĭ, G. M. et al., (2004h:00019)**
Li, Wei[3] *see* **Xu, Ke, 2004m:68104**
Lin, Guo-Hui (*with* Chen, Zhi-Zhong; Jiang, Tao[1]; Wen, Jianjun) The longest common subsequence problem for sequences with nested arc annotations (extended abstract). (English summary)
Liśkiewicz, Maciej *see* **Jakoby, Andreas**
Lokam, Satyanarayana V. Graph complexity and slice functions. (English summary) **2004b:68067**
Lombardy, Sylvain (*with* Sakarovitch, Jacques) Derivation of rational expressions with multiplicity. (English summary)
Lozin, Vadim V. (*with* Rautenbach, Dieter) Some results on graphs without long induced paths. (English summary) **2004h:68057**
Lu, Bing *see* **Shragowitz, Eugene et al., 2004b:68069**
Luan, Jun Feng (*with* Zhu, Da Ming; Ma, Shao Han) A problem of reversal distance on star-tree with object partially fixed. (Chinese. English and Chinese summaries) **2004c:68054**
Lyngsø, Rune B. *see* **Brodal, Gerth Stølting et al.**
Ma, Shao Han *see* **Luan, Jun Feng et al., 2004c:68054**
Maaß, Moritz G. *see* **Holzapfel, Klaus et al., (2004j:68002)**
Makino, Kazuhisa (*with* Ono, Hirotaka; Ibaraki, Toshihide) Interior and exterior functions of positive Boolean functions. (English summary) **2004g:68060**
— *see also* **Eiter, Thomas et al., 2004c:68051** *and* **Boros, Endre et al., 2004m:68086**
Maratea, Marco *see* **Giunchiglia, Enrico et al., (2004j:68015)**
Maruoka, Akira *see* **Amano, Kazuyuki et al., 2004a:68042; 2004c:68050** *and* **(2004j:68002)**
Marx, Maarten Computing with cylindric modal logics and arrow logics, lower bounds. (English summary) **2004j:68079**
Matsumoto, Toshimasa Time complexity of a proof-search procedure for **K4**. (English summary) **2004j:68080**
Matsuo, Kenshi *see* **Amano, Kazuyuki et al., 2004c:68050**
Matsuura, Akihiro *see* **Amano, Kazuyuki et al., 2004c:68050**
Mavronicolas, Marios *see* **Fotakis, Dimitris A. et al.**
Mayr, Richard *see* **Kučera, Antonín[2]**
McCartin, Catherine *see* **Fellows, Michael R., 2004e:68040**
Michiels, Wil (*with* Korst, Jan) Min-max subsequence problems in multi-zone disk recording. (English summary) **2004i:68087**
— (*with* Korst, Jan) Complexity of min-max subsequence problems. (English summary) **2004g:68061**
Miyano, Satoru *see* **Akutsu, Tatsuya et al.**
Moshkov, Mikhail Classification of infinite information systems depending on complexity of decision trees and decision rule systems. (English summary) **2004g:68062**
Motwani, Rajeev *see* **Feder, Tomás, 2004f:68045**
Naĭdenko, V. G. Complexity of finding a second solution of an NP-complete problem. (Russian. English and Russian summaries) **2004f:68046**
Neerbek, Jan *see* **Høyer, Peter et al.**
Newman, Ilan *see* **Fischer, Eldar et al., 2004j:68076**
Nicolas, François (*with* Rivals, Eric) Complexities of the centre and median string problems. (English summary)
Niedermeier, Rolf (*with* Rossmanith, Peter) An efficient fixed-parameter algorithm for 3-Hitting Set. (English summary) **2004j:68081**
— *see also* **Gramm, Jens et al., 2004b:68066; 2004j:68077; 2004m:68093; (2004j:68002)** *and* **Alber, Jochen et al.**
Nisan, Noam The communication complexity of approximate set packing and covering. (English summary)
— *see also* **Kremer, Ilan et al., 2004d:68057**
Nourine, Lhouari *see* **Habib, Michel et al., 2004k:68068**
Okhotin, Alexander On the complexity of the string generation problem. (Russian. Russian summary) **2004k:68070**
Ono, Hirotaka *see* **Makino, Kazuhisa et al., 2004g:68060**
Östlin, Anna *see* **Brodal, Gerth Stølting et al.**
Ott, Sascha *see* **Akutsu, Tatsuya et al.**
Palopoli, Luigi *see* **Angiulli, Fabrizio et al., 2004f:68044**
Papadimitriou, Christos H. *see* **Deng, Xiao-Tie et al., 2004h:68054**
Parnas, Michal (*with* Ron, Dana; Rubinfeld, Ronitt) On testing convexity and submodularity. (English summary) **2004m:68098**
— (*with* Ron, Dana; Samorodnitsky, Alex) Testing basic Boolean formulae. (English summary) **2004b:68068**
— (*with* Ron, Dana) Testing metric properties. (English summary) **2004m:68099**
— *see also* **Alon, Noga et al., 2004h:68052**
Pedersen, Christian N. S. *see* **Brodal, Gerth Stølting et al.**
Petersen, Holger *see* **Ben-Amram, Amir M. et al., 2004i:68074**
Pietrzak, Krzysztof On the parameterized complexity of the fixed alphabet shortest common supersequence and longest common subsequence problems. (English summary) **2004m:68100**
Plaisted, David A. (*with* Biere, Armin; Zhu, Yunshan) A satisfiability procedure for quantified Boolean formulae. (English summary) **2004i:68088**
Proskurowski, Andrzej *see* **Fiala, Jiří et al.**
Puricella, Antonio (*with* Stewart, Iain A.) Greedy algorithms, H-colourings and a complexity-theoretic dichotomy. (English summary) **2004k:68071**
Raghavan, Vijay K. (*with* Spinrad, Jeremy P.) Robust algorithms for restricted domains. (English summary) **2004f:68047**
Rajaraman, Rajmohan *see* **Guruswami, Venkatesan et al., 2004i:68083**
Rao, Michaël *see* **Bodlaender, Hans L. et al.**
Raskhodnikova, S. *see* **Andoni, A. et al., (2004a:68002)**
Rau-Chaplin, Andrew *see* **Cheetham, James et al., 2004k:68065**
Rautenbach, Dieter *see* **Lozin, Vadim V., 2004h:68057**
Raynaud, O. *see* **Habib, Michel et al., 2004k:68068**
Reingold, Edward M. *see* **Alonso, Laurent et al., 2004k:68063**
Reith, Steffen (*with* Vollmer, Heribert) Optimal satisfiability for propositional calculi and constraint satisfaction problems. (English summary) **2004h:68058**
— *see also* **Böhler, Elmar et al., 2004m:68085**
Rivals, Eric *see* **Nicolas, François**
Ron, Dana *see* **Parnas, Michal et al., 2004b:68068; 2004m:68098; 2004m:68099; Kremer, Ilan et al., 2004d:68057** *and* **Alon, Noga et al., 2004h:68052**
Rossmanith, Peter *see* **Gramm, Jens et al., 2004b:68066; 2004j:68077** *and* **Niedermeier, Rolf, 2004j:68081**
Rotics, Udi *see* **Kobler, Daniel, 2004i:68084** *and* **Bodlaender, Hans L.**
Rubinfeld, Ronitt *see* **Parnas, Michal et al., 2004m:68098**
Rusinowitch, Michaël (*with* Turuani, Mathieu) Protocol insecurity with a finite number of sessions and composed keys is NP-complete. (English summary) **2004c:68055**
Safra, Shmuel *see* **Deng, Xiao-Tie et al., 2004h:68054**
Sakarovitch, Jacques *see* **Lombardy, Sylvain**
Sami, Rahul *see* **Feigenbaum, Joan et al., (2004j:68011)**
Samorodnitsky, Alex *see* **Parnas, Michal et al., 2004b:68068**
Sanders, William H. *see* **Derisavi, Salem et al., 2004g:68055**
San Miguel Aguirre, Alfonso *see* **Coarfa, Cristian et al., 2004i:68077**
Savelsbergh, Martin W. P. *see* **Hunsaker, Brady et al., 2004k:68069**
Schöning, Uwe *see* **Hofmeister, Thomas et al., 2004m:68094**
Schott, René *see* **Alonso, Laurent et al., 2004k:68063**
Schuler, Rainer *see* **Hofmeister, Thomas et al., 2004m:68094**
Schuurman, Petra *see* **Błażewicz, Jacek et al.**
Seiden, Steven S. (*with* van Stee, Rob; Epstein, Leah) New bounds for variable-sized online bin packing. (English summary) **2004e:68042**
Seif, Steve (*with* Szabó, Csaba) Algebra complexity problems involving graph homomorphism, semigroups and the constraint satisfaction problem. (English summary) **2004c:68056**
Serna, Maria José *see* **Àlvarez, Carme et al., 2004m:68084** *and* **Díaz, Josep et al.**
Sgall, Jiří *see* **Fischer, Eldar et al., 2004j:68076**
Shachnai, Hadas (*with* Tamir, Tami) Tight bounds for online class-constrained packing. (English summary) **2004a:68045**
Shapira, Asaf *see* **Alon, Noga, 2004g:68053**
Shenker, Scott *see* **Feigenbaum, Joan et al., (2004j:68011)**
Shepherd, F. Bruce *see* **Guruswami, Venkatesan et al., 2004i:68083**
Shi, Yaoyun *see* **Høyer, Peter et al.**
Sholomov, L. A. On complexity of minimization and compression problems for models of sequential choice. (English summary)
Shragowitz, Eugene (*with* Youssef, Habib; Lu, Bing) Iterative converging algorithms for computing bounds on durations of activities in Pert and Pert-like models. (English summary) **2004b:68069**
Silvestri, Riccardo *see* **De Agostino, Sergio, 2004a:68043**
Sivakumar, D. *see* **Kumar, S. Ravi, 2004i:68086**
Smith, Andrew David *see* **Evans, Patricia A. et al., 2004g:68059**
Sorkin, Gregory B. *see* **Coppersmith, Don et al., (2004a:68002)**
Spinrad, Jeremy P. *see* **Raghavan, Vijay K., 2004f:68047; Kratsch, Dieter, (2004a:68002)** *and* **Bodlaender, Hans L. et al.**
Spirakis, Paul G. *see* **Fotakis, Dimitris A. et al.**

Stamatiou, Yannis C. Threshold phenomena: the computer scientist's viewpoint.
van Stee, Rob *see* **Seiden, Steven S. et al.**, **2004e:68042** *and* **Epstein, Leah et al.**, **2004g:68058**
Stefanakos, Stamatis *see* **Anand, R. Sai et al.**
Stege, Ulrike *see* **Cheetham, James et al.**, **2004k:68065**
Stewart, Iain A. The complexity of achievement and maintenance problems in agent-based systems. (English summary) **2004d:68058**
— *see also* **Puricella, Antonio**, **2004k:68071**
Subramani, K. On deciding the non-emptiness of 2SAT polytopes with respect to first order queries. (English summary) **2004m:68101**
Subramanian, Devika *see* **Coarfa, Cristian et al.**, **2004i:68077**
Sun, Xiaoming A 3-party simultaneous protocol for SUM-INDEX. (English summary) **2004c:68057**
Suzuki, Susumu (*with* Ibaraki, Toshihide) Average running time analysis of an algorithm to calculate the size of the union of Cartesian products. (English summary) **2004k:68072**
Szabó, Csaba *see* **Seif, Steve**, **2004c:68056**
Szeider, Stefan Minimal unsatisfiable formulas with bounded clause-variable difference are fixed-parameter tractable. (English summary)
Tacchella, Armando *see* **Giunchiglia, Enrico et al.**, (**2004j:68015**)
Taillon, Peter J. *see* **Cheetham, James et al.**, **2004k:68065**
Tamir, Tami *see* **Shachnai, Hadas**, **2004a:68045**
Tarui, Jun *see* **Amano, Kazuyuki et al.**, **2004a:68042**
Täubig, Hanjo *see* **Holzapfel, Klaus et al.**, (**2004j:68002**)
Thanh Minh Hoang (*with* Thierauf, Thomas) The complexity of the inertia. (English summary) **2004m:68102**
— (*with* Thierauf, Thomas) The complexity of the characteristic and the minimal polynomial. (English summary) **2004m:68103**
Thierauf, Thomas *see* **Thanh Minh Hoang**, **2004m:68102** *and* **2004m:68103**
Thierry, Éric *see* **Habib, Michel et al.**, **2004k:68068**
Thilikos, Dimitris M. *see* **Diaz, Josep et al.**
Thorup, Mikkel On AC^0 implementations of fusion trees and atomic heaps. (English summary) (*see* **2004a:68002**)
Tichit, Laurent *see* **Dulucq, Serge**, **2004h:68055**
Torán, Jacobo *see* **Köbler, Johannes**, **2004m:68096**
Toussaint, Marc *see* **Igel, Christian**, **2004c:68053**
Tovey, Craig A. *see* **Hunsaker, Brady et al.**, **2004k:68069**
Trevisan, Luca *see* **Goldreich, Oded**, **2004i:68081**
Turner, Hudson Polynomial-length planning spans the polynomial hierarchy. (English summary) (*see* **2004j:68015**)
Turuani, Mathieu *see* **Rusinowitch, Michaël**, **2004c:68055**
Valiente Feruglio, Gabriel Constrained tree inclusion. (English summary)
Valiev, M. K. *see* **Dekhtyar, Mikhail I. et al.**, (**2004j:68015**)
Vardi, Moshe Y. *see* **Coarfa, Cristian et al.**, **2004i:68077**
Vialette, Stéphane Pattern matching problems over 2-interval sets. (English summary)
— On the computational complexity of 2-interval pattern matching problems. (English summary) **2004j:68082**
Vikas, Narayan Computational complexity of compaction to reflexive cycles. (English summary) **2004e:68043**
Villard, Gilles *see* **Giorgi, Pascal et al.**, (**2004j:68018**)
Vollmer, Heribert *see* **Reith, Steffen**, **2004h:68058** *and* **Böhler, Elmar et al.**, **2004m:68085**
Voronenko, A. A. On a decomposition method for recognizing membership in invariant classes. (Russian. Russian summary) **2004j:68083**
Wahlström, Magnus *see* **Dahllöf, Vilhelm et al.**
Wang, Jinchang A weight-balanced branching rule for SAT. (English summary) **2004g:68063**
Wareham, H. Todd *see* **Evans, Patricia A. et al.**, **2004g:68059**
Watanabe, Osamu[2] *see* **Hofmeister, Thomas et al.**, **2004m:68094**
Wen, Jianjun *see* **Lin, Guo-Hui et al.**
Westbrook, Jeffery R. *see* **Buchsbaum, Adam L. et al.**, **2004j:68073**
Weston, Mark A fixed-parameter tractable algorithm for matrix domination. (English summary)
Wigderson, Avi *see* **Goldreich, Oded**, **2004m:68091**
Woeginger, Gerhard J. *see* **Błażewicz, Jacek et al.**
Wong, Steven *see* **Fleischer, Rudolf et al.**
Xu, Jinhui *see* **Chen, Danny Z. et al.**, **2004m:68088**
Xu, Ke (*with* Li, Wei[3]) On the average similarity degree between solutions of random k-SAT and random CSPs. (English summary) **2004m:68104**
Yannakakis, Mihalis *see* **Guruswami, Venkatesan et al.**, **2004i:68083**
Youssef, Habib *see* **Shragowitz, Eugene et al.**, **2004b:68069**
Zhang, Chuanlin *see* **Jia, Weijia et al.**, **2004j:68078**
Zhang, Li[6] *see* **King, Valerie et al.**, (**2004a:68002**)
Zhang, Pixing *see* **Deng, Xiao-Tie et al.**, **2004k:68066**
Zhang, Yu Zhong[1] *see* **Deng, Xiao-Tie et al.**, **2004k:68066**
Zhou, Yunhong *see* **King, Valerie et al.**, (**2004a:68002**)
Zhu, Da Ming *see* **Luan, Jun Feng et al.**, **2004c:68054**
Zhu, Hong[1] *see* **Deng, Xiao-Tie et al.**, **2004k:68066**
Zhu, Yunshan *see* **Plaisted, David A. et al.**, **2004i:68088**
Zito, Michele An upper bound on the space complexity of random formulae in resolution. (English summary) **2004a:68046**

Items with secondary classifications in 68Q25

Ablaev, Farid M. (*with* Karpinski, Marek) A lower bound for integer multiplication on randomized ordered read-once branching programs. (English summary) **2004h:68035**
Aceto, Luca (*with* Ésik, Zoltán; Ingólfsdóttir, Anna) The max-plus algebra of the natural numbers has no finite equational basis. (English summary) **2004e:03060**
Adsul, Bharat (*with* Sohoni, Milind) Complete and tractable local linear time temporal logics over traces. (English summary)
Aho, Isto New polynomial-time instances to various knapsack-type problems. (English summary) **2004g:90087**
Ahuja, Ravindra K. (*with* Orlin, James B.; Pallottino, Stefano; Scutellà, Maria Grazia) Dynamic shortest paths minimizing travel times and costs. (English summary) **2004j:90129**
Aida, Shin (*with* Crasmaru, Marcel; Regan, Kenneth W.; Watanabe, Osamu[2]) Games with uniqueness properties. (English summary) **2004m:68055**
Akanuma, Ryuta *see* **Suzuki, Yusuke**[2] **et al.**, (**2004j:68006**)
Alber, Jochen (*with* Fernau, Henning; Niedermeier, Rolf) Graph separators: a parameterized view. (English summary) **2004m:68188**
Alechina, Natasha (*with* Demri, Stéphane; de Rijke, Maarten) A modal perspective on path constraints. (English summary) **2004k:68036**
Alekhnovich, M. V. Mutilated chessboard problem is exponentially hard for resolution. (English summary) **2004i:03017**
Alekseev, Vladimir E. Polynomial algorithm for finding the largest independent sets in graphs without forks. (English summary)
— (*with* Farrugia, Alastair; Lozin, Vadim V.) New results on generalized graph coloring. (English summary) **2004m:05093**
Allender, Eric *see* **Hesse, William et al.**, **2004b:68057**
Althaus, Ernst (*with* Mehlhorn, Kurt; Näher, Stefan; Schirra, Stefan) Experiments on curve reconstruction. (English summary) **2004m:65023**
Alur, Rajeev (*with* Etessami, Kousha; Yannakakis, Mihalis) Realizability and verification of MSC graphs. (English summary)
Amadio, Roberto M. (*with* Lugiez, Denis; Vanackère, Vincent) On the symbolic reduction of processes with cryptographic functions. (English summary) **2004h:68032**
Amano, Kazuyuki (*with* Maruoka, Akira) The potential of the approximation method. (English summary) **2004m:68069**
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Andersson, Mattias (*with* Gudmundsson, Joachim; Levcopoulos, Christos; Narasimhan, Giri) Balanced partition of minimum spanning trees. (English summary) **2004k:68166**
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Azar, Yossi (*with* Regev, Oded) Strongly polynomial algorithms for the unsplittable flow problem. (English summary) **2004m:90166**
Babin, D. N. Efficient recognition of the completeness of a system of automaton functions with a complete Boolean part. (Russian. Russian summary) **2004f:68103**
Backofen, Rolf (*with* Narayanaswamy, N. S.; Swidan, Firas) On the complexity of protein similarity search under mRNA structure constraints. (English summary) **2004m:68070**
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Bampis, Evripidis *see* **Angel, Eric et al.**
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Barrington, David A. Mix *see* **Hesse, William et al.**, **2004b:68057**
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Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie-Françoise) ★ Algorithms in real algebraic geometry. **2004g:14064**
Bazgan, Cristina (*with* Paschos, Vangelis Th.) Differential approximation for optimal satisfiability and related problems. (English summary) **2004b:90091**
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Bellia, Marco (*with* Occhiuto, M. Eugenia) N-axioms parallel unification. (English summary) **2004i:68192**
Bender, Michael A. *see* **Sztainberg, Marcelo O. et al.**
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Berman, Piotr (*with* Karpinski, Marek; Larmore, Lawrence L.; Plandowski, Wojciech; Rytter, Wojciech) On the complexity of pattern matching for highly compressed two-dimensional texts. (English summary) **2004b:68180**

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Blumensath, Achim *see* **Berwanger, Dietmar**

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Bolyak, R. I. (*with* Lozin, Vadim V.) Independent domination in finitely defined classes of graphs. (English summary) **2004c:68107**

Bonizzoni, Paola (*with* Della Vedova, Gianluca; Dondi, Riccardo; Li, Jing) The haplotyping problem: an overview of computational models and solutions. (English summary) **2004j:92042**

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Brafman, Ronen I. (*with* Domshlak, Carmel) Structure and complexity in planning with unary operators. (English summary) **2004f:68139**

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Brockett, Roger W. *see* **Egerstedt, Magnus B., 2004h:93130**

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Bshouty, Nader H. (*with* Mansour, Yishay) Simple learning algorithms for decision trees and multivariate polynomials. (English summary) **2004e:68044**

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Cao, Qiguo (*with* Wu, Xue; Sun, Yugeng) K-vertex-connectivity minimum augmentation for undirected unweighted graphs. (English summary) **2004f:05098**

Castellani, Tommaso (*with* Napolano, Vincenzo; Ricci-Tersenghi, Federico; Zecchina, Riccardo) Bicolouring random hypergraphs. (English summary) **2004k:90142**

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(Chen, Jian Er) *see* **Special Issue: Parameterized computation and complexity**

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Chien, Steve (*with* Rasmussen, Lars; Sinclair, Alistair) Clifford algebras and approximating the permanent. (English summary) **2004m:68280**

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Clarkson, Kenneth L. *see* **Bădoiu, Mihai, (2004a:68002)**

Cleve, Richard *see* **de Beaudrap, J. Niel et al., 2004k:81085**

Coffman, E. G., Jr. *see* **Baryshnikov, Yu. M. et al., 2004i:68236**

Cole, Richard *see* **Amir, Amihood et al., 2004m:68269**

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Conejo, Paulo D. *see* **Ayala-Rincón, Mauricio, 2004f:68023**

Confessore, Giuseppe (*with* Dell'Olmo, Paolo; Giordani, Stefano) Complexity and approximation results for scheduling multiprocessor tasks on a ring. (English summary) **2004k:90041**

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Cotta, Carlos (*with* Moscato, Pablo) The k-feature set problem is $W[2]$-complete. (English summary) **2004k:68057**

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Crandall, Richard E. (*with* Mayer, Ernst W.; Papadopoulos, Jason S.) The twenty-fourth Fermat number is composite. (English summary) **2004c:11236**

Crasmaru, Marcel *see* **Aida, Shin et al., 2004m:68055**

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Dal Zilio, Silvano *see* **Charatonik, Witold et al., 2004i:68134**

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2004e:92020

Damgård, Ivan (*with* Koprowski, Maciej) Generic lower bounds for root extraction and signature schemes in general groups. (English summary) **2004f:94059**

Dang, Zhe *see* **Xie, Gaoyan et al.**, (**2004j:68014**)

Dao, Thi-Bich-Hanh *see* **Colmerauer, Alain**, **2004j:03039**

Darte, Alain (*with* Huard, Guillaume) Complexity of multi-dimensional loop alignment. (English summary) (*see* **2004j:68020**)

Dasgupta, Bhaskar[1] *see* **Berman, Piotr et al.**, **2004d:68181**

Datar, Mayur (*with* Gionis, Aristides; Indyk, Piotr; Motwani, Rajeev) Maintaining stream statistics over sliding windows. (English summary) **2004e:68017**

Daudé, Hervé *see* **Creignou, Nadia et al.**, **2004b:68119**

Dedieu, Jean-Pierre Systems of inequalities and the stability of decision machines. (*see* **2004g:65003**)

Dekhtyar, Mikhail I. (*with* Dikovskiĭ, A. Ya.; Valiev, M. K.) On feasible cases of checking multi-agent systems behavior. (English summary) **2004f:68090**

Dell'Amico, Mauro (*with* Martello, Silvano) Bounds for the cardinality constrained $P||C_{\max}$ problem. (English summary) **2004f:90047**

Della Vedova, Gianluca *see* **Bonizzoni, Paola et al.**, **2004j:92042**

Dell'Olmo, Paolo *see* **Confessore, Giuseppe et al.**, **2004k:90041**

Demaine, Erik D. (*with* Demaine, Martin L.; Eppstein, David) Phutball endgames are hard. (English summary) **2004b:91042**

— (*with* López-Ortiz, Alejandro) A linear lower bound on index size for text retrieval. (English summary) **2004g:68187**

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Demaine, Martin L. *see* **Biedl, Therese C. et al.**, **2004b:91041**; **2004d:68036** *and* **Demaine, Erik D. et al.**, **2004b:91042**

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Demri, Stéphane Modal logics with weak forms of recursion: PSPACE specimens. (English summary) **2004i:03029**

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Deng, Xiao-Tie *see* **Fang, Qizhi et al.**, **2004g:91008**

Denise, Alain *see* **Corteel, Sylvie et al.**, **2004d:68114**

Díao, Lixia *see* **Chen, Duhong et al.**, **2004f:92018**

Díaz, Josep (*with* Petit, Jordi; Serna, Maria José) A guide to concentration bounds. (English summary) **2004b:68199**

— PRIMES $\in$ P (without assumptions). (English summary) **2004b:68052**

Didimo, Walter *see* **Di Giacomo, Emilio et al.**

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Di Ianni, Miriam *see* **Bermond, Jean-Claude et al.**, **2004g:68003**

Dikovskiĭ, A. Ya. *see* **Dekhtyar, Mikhail I. et al.**, **2004f:68090**

Ding, De-Cheng *see* **Zhao, Xi-Shun**

Dohmen, Klaus (*with* Pönitz, André; Tittmann, Peter) A new two-variable generalization of the chromatic polynomial. (English summary) **2004j:05053**

Domshlak, Carmel *see* **Brafman, Ronen I.**, **2004f:68139**

Dondi, Riccardo *see* **Bonizzoni, Paola et al.**, **2004j:92042**

Dovier, Agostino (*with* Piazza, Carla; Pontelli, Enrico) Disunification in $ACI1$ theories. (English summary) **2004m:03039**

Dragan, Feodor F. *see* **Brandstädt, Andreas et al.**, **2004h:05120**

Dreizin, Vladimir *see* **Brakerski, Zvika et al.**, **2004h:90020**

Du, Ding-Zhu *see* **Cheng, Xiuzhen et al.**, **2004j:68196**

Dubois, Olivier *see* **Creignou, Nadia et al.**, **2004b:68119**

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Dumer, Ilya (*with* Micciancio, Daniele; Sudan, Madhu) Hardness of approximating the minimum distance of a linear code. (English summary) **2004a:68034**

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Dye, Shane (*with* Stougie, Leen; Tomasgard, Asgeir) The stochastic single resource service-provision problem. (English summary) **2004j:90022**

Dyer, Martin E. *see* **Cryan, Mary et al.**, (**2004a:68002**)

Eades, Peter *see* **Lin, Xuemin**, **2004d:68166**

Easton, Todd *see* **Horton, S. B. et al.**, **2004g:05144**

Effros, Michelle *see* **Zhao, Qian**, **2004b:94045**

Egerstedt, Magnus B. (*with* Brockett, Roger W.) Feedback can reduce the specification complexity of motor programs. (English summary) **2004h:93130**

Ehrgott, Matthias *see* **Blum, Christian**, **2004a:90099**

Eidenbenz, Stephan J. (*with* Widmayer, Peter) An approximation algorithm for minimum convex cover with logarithmic performance guarantee. (English summary) **2004h:68143**

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Eisenbrand, Friedrich (*with* Grandoni, Fabrizio[2]) Detecting directed 4-cycles still faster. (English summary) **2004c:05185**

Eiter, Thomas (*with* Gottlob, Georg) Hypergraph transversal computation and related problems in logic and AI. (English summary) (*see* **2004j:68015**)

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Elbassioni, Khaled M. *see* **Boros, Endre et al.**

Elkin, Michael (*with* Peleg, David) Approximating k-spanner problems for $k > 2$. (English summary) **2004m:68284**

Elomaa, Tapio (*with* Kääriäinen, Matti) The difficulty of reduced error pruning of leveled branching programs. (English summary) **2004m:68203**

Elsonbaty, Ahmed *see* **Richardson, Daniel**, **2004f:68190**

Engel, Konrad (*with* Guttmann, Sven) Testing bandwidth k for k-connected graphs. (English summary) **2004b:05181**

Eppstein, David Setting parameters by example. (English summary) **2004g:90114**

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Epstein, Leah On variable sized vector packing. (English summary) **2004e:90054**

— (*with* Favrholdt, Lene M.) On-line maximizing the number of items packed in variable-sized bins. (English summary) **2004d:90038**

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Ergün, Funda *see* **Czumaj, Artur et al.**, (**2004a:68002**)

Erickson, Jeff *see* **Soss, Michael et al.**, **2004j:68183**

Erlebach, Thomas *see* **Cieliebak, Mark et al.**, **2004m:92039**

Eschen, Elaine M. (*with* Johnson, Julie L.; Spinrad, Jeremy P.; Sritharan, R.) Recognition of some perfectly orderable graph classes. (English summary) **2004d:68115**

Ésik, Zoltán *see* **Aceto, Luca et al.**, **2004e:03060**

Esteban, Juan Luis (*with* Galesi, Nicola; Messner, Jochen) On the complexity of resolution with bounded conjunctions (extended abstract). (English summary)

Etessami, Kousha *see* **Alur, Rajeev et al.**

Eulenstein, O. *see* **Chen, Duhong et al.**, **2004f:92018**

Fagerberg, Rolf *see* **Brodal, Gerth Stølting**, (**2004a:68002**)

Fagin, Ronald (*with* Lotem, Amnon; Naor, Moni) Optimal aggregation algorithms for middleware. (English summary) **2004h:68029**

Fang, Qizhi (*with* Zhu, Shanfeng; Cai, Mao Cheng; Deng, Xiao-Tie) On computational complexity of membership test in flow games and linear production games. (English summary) **2004g:91008**

Farrugia, Alastair *see* **Alekseev, Vladimir E. et al.**, **2004m:05093**

Favrholdt, Lene M. *see* **Epstein, Leah**, **2004d:90038**

Feder, Tomás (*with* Madelaine, Florent R.; Stewart, Iain A.) Dichotomies for classes of homomorphism problems involving unary functions. (English summary) **2004m:68212**

Feige, Uriel (*with* Yahalom, Orly) On the complexity of finding balanced oneway cuts. (English summary) **2004d:68116**

Feigenbaum, Joan *see* **Archer, Aaron et al.**, **2004k:91011**

Fekete, Sándor P. (*with* Meijer, Henk; Rohe, André; Tietze, Walter) Solving a "hard" problem to approximate an "easy" one: heuristics for maximum matchings and maximum traveling salesman problems. (English summary) **2004d:90136**

(Fellows, Michael R.) *see* **Special Issue: Parameterized computation and complexity**

Fernandes, Cristina G. *see* **Călinescu, Gruia et al.**, **2004b:68186**

Fernández-Baca, David *see* **Chen, Duhong et al.**, **2004f:92018**

Fernau, Henning Graph separator algorithms: a refined analysis. (English summary)

— *see also* **Alber, Jochen et al.**, **2004m:68188**

Fertin, Guillaume (*with* Raspaud, André) Recognizing recursive circulant graphs (extended abstract). (English summary) (*see* **2004a:05004**)

Fiala, Jiří (*with* Heggernes, Pinar; Kristiansen, Petter; Telle, Jan Arne) Generalized H-coloring and H-covering of trees. (English summary)

Flammini, Michele *see* **Bermond, Jean-Claude et al.**, **2004g:68003**

Fleischer, Rudolf *see* **Biedl, Therese C. et al.**, **2004b:91041**

Flocchini, Paola (*with* Luccio, Flaminia L.) Routing in series parallel networks. (English summary) **2004f:68002**

Fomin, Fedor V. (*with* Matamala, Martín; Rapaport, Ivan) The complexity of approximating the oriented diameter of chordal graphs. (English summary)

— (*with* Thilikos, Dimitris M.) Dominating sets in planar graphs: branch-width and exponential speed-up. (English summary) (*see* **2004a:68002**)

— (*with* Golovach, Petr A.) Interval degree and bandwidth of a graph. (English summary) **2004e:05167**

— *see also* **Broersma, H. J. et al.** *and* **Bodlaender, Hans L.**

Fortnow, Lance (*with* Homer, Steve) A short history of computational complexity.

— *see also* **Czumaj, Artur et al.**, (**2004a:68002**)

Foster, James A. *see* **Rylander, Bart**, (**2004i:68002**) *and* (**2004i:68002**)

Fotakis, Dimitris A. (*with* Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) Radiocolorings in periodic planar graphs: PSPACE-completeness and efficient approximations for the optimal range of frequencies. (English summary)

Fraenkel, Aviezri S. Complexity, appeal and challenges of combinatorial games. (English summary)

(Franco, John) *see* **Renesse issue on satisfiability**

Franěk, František (*with* Smyth, William F.; Xiao, Xiangdong) A note on Crochemore's repetitions algorithm—a fast space-efficient approach. (English summary) **2004e:68126**

Franz, Silvio (*with* Leone, Michele) Replica bounds for optimization problems and diluted spin systems. (English summary) **2004h:82047**

Frieze, Alan *see* **Bohman, Tom**, **2004d:68109**

Fu, Ho-Yam Addy *see* **Arya, Sunil**, **2004h:68140**

Galesi, Nicola *see* **Esteban, Juan Luis et al.**

Gardner, Richard J. (*with* Milanfar, Peyman) Reconstruction of convex bodies from brightness functions. (English summary) **2004a:68145**

Gardy, Danièle *see* **Corteel, Sylvie et al.**, **2004d:68114**

Gavoille, Cyril (*with* Zemmari, Akka) The compactness of adaptive routing tables. (English summary) **2004k:68013**

Gendreau, Michel (*with* Laporte, Gilbert; Semet, Frédéric) Heuristics and lower bounds for the bin packing problem with conflicts. (English summary) **2004k:90058**

Gentilini, Raffaella (*with* Piazza, Carla; Policriti, Alberto) Computing strongly connected components in a linear number of symbolic steps. (English summary) (*see* **2004a:68002**)

Georgiou, Chryssis (*with* Shvartsman, Alex A.) Cooperative computing with fragmentable and mergeable groups. (English summary) **2004m:68011**

Gerber, Michael U. (*with* Hertz, Alain; Schindl, David) P_5-free augmenting graphs and the maximum stable set problem. (English summary) **2004m:05190**

Giaro, Krzysztof (*with* Janczewski, Robert; Małafiejski, Michał) The complexity of the T-coloring problem for graphs with small degree. (English summary) **2004f:05174**

Gionis, Aristides *see* **Datar, Mayur et al.**, **2004e:68017**

Giordani, Stefano *see* **Confessore, Giuseppe et al.**, **2004k:90041**

Giorgetti, Alain An asymptotic study for path reversal. (English summary) **2004g:68208**

Giunchiglia, Enrico (*with* Narizzano, Massimo; Tacchella, Armando) Backjumping for quantified Boolean logic satisfiability. (English summary) **2004c:68122**

Goerdt, Andreas (*with* Jurdziński, Tomasz) Some results on random unsatisfiable k-Sat instances and approximation algorithms applied to random structures. (English

summary) **2004e:68123**
(Goldberg, David E.) *see* **Rothlauf, Franz**, **2004a:68124**
Goldberg, Leslie Ann (*with* Jerrum, Mark; Paterson, M. S.) The computational complexity of two-state spin systems. (English summary) **2004f:82007**
Goldberg, Mark K. *see* **Breimer, Eric A. et al.**, **2004m:68201**
Goldberg, Robert R. (*with* Taksa, Isak) Mathematical complexity of ranking similar documents retrieved by search engines on the web. (English summary) **2004m:68037**
Goldwasser, Shafi *see* **Micciancio, Daniele**, **2004m:94067**
Golovach, Petr A. *see* **Fomin, Fedor V.**, **2004e:05167**
Golynski, Alexander (*with* Horton, Joseph D.) A polynomial time algorithm to find the minimum cycle basis of a regular matroid. (English summary)
Goodall, A. J. The Tutte polynomial modulo a prime. (English summary) **2004m:05258**
Gordon, Andrew D. *see* **Charatonik, Witold et al.**, **2004i:68134**
Gottlob, Georg *see* **Eiter, Thomas**, (**2004j:68015**)
Gourvès, Laurent *see* **Angel, Eric et al.**
Grandoni, Fabrizio[2] *see* **Eisenbrand, Friedrich**, **2004c:05185**
Grohe, Martin Local tree-width, excluded minors, and approximation algorithms. (English summary) **2004m:05248**
Grolmusz, Vince (*with* Tardos, Gábor) A note on: "Non-deterministic communication complexity with few witnesses" [J. Comput. System Sci. **49** (1994), no. 2, 247–257; MR 96c:68065] by M. Karchmer, I. Newman, M. Saks and A. Wigderson. (English summary) **2004d:68046**
Grossi, Roberto (*with* Gupta, Ankur; Vitter, Jeffrey Scott) High-order entropy-compressed text indexes. (English summary) (*see* **2004a:68002**)
Groult, Richard (*with* Léonard, Martine; Mouchard, Laurent) Speeding up the detection of evolutive tandem repeats. (English summary) **2004j:68146**
Grover, Lov K. An improved quantum scheduling algorithm. (English summary) **2004k:81092**
Gudmundsson, Joachim *see* **Andersson, Mattias et al.**, **2004k:68166**
Gupta, Ankur *see* **Grossi, Roberto et al.**, (**2004a:68002**)
Gurvich, Vladimir *see* **Boros, Endre et al.**, **2004i:68184**
Gutin, Gregory (*with* Yeo, Anders) Assignment problem based algorithms are impractical for the generalized TSP. (English summary) **2004a:90104**
Guttmann, Sven *see* **Engel, Konrad**, **2004b:05181**
Hähnle, Reiner Complexity of many-valued logics. (English summary) **2004f:03044**
Hajiaghayi, Mohammad Taghi (*with* Nishimura, Naomi) Subgraph isomorphism, log-bounded fragmentation and graphs of (locally) bounded treewidth. (English summary)
— *see also* **Biedl, Therese C. et al.**, **2004d:68036**
Hall, Nicholas G. (*with* Lee, Tae-Eog; Posner, Marc E.) The complexity of cyclic shop scheduling problems. (English summary) **2004g:90041**
Halldórsson, Magnús M. (*with* Irving, Robert W.; Iwama, Kazuo; Manlove, David F.; Miyazaki, Shuichi; Morita, Yasufumi; Scott, Sandy) Approximability results for stable marriage problems with ties. (English summary) **2004h:68047**
Hallgren, Sean (*with* Russell, Alexander C.; Ta-Shma, Amnon) The hidden subgroup problem and quantum computation using group representations. (English summary) **2004j:81036**
Halman, Nir A linear time algorithm for the weighted lexicographic rectilinear 1-center problem in the plane. (English summary) **2004a:90042**
Han, Yijie *see* **Chong, Ka Wong et al.**, **2004a:68157**
Hariharan, Ramesh *see* **Amir, Amihood et al.**, **2004m:68269**
Harris, Laura (*with* Hattingh, Johannes H.) The algorithmic complexity of certain functional variations of total domination in graphs. (English summary) **2004k:68132**
Hartman, Tzvika (*with* Raz, Ran) On the distribution of the number of roots of polynomials and explicit weak designs. (English summary) **2004i:05024**
Hartmann, Alexander K. (*with* Weigt, Martin) Statistical mechanics of the vertex-cover problem. (English summary) **2004k:68187**
Hattingh, Johannes H. *see* **Harris, Laura**, **2004k:68132**
Hayes, Thomas P. (*with* Kutin, Samuel; van Melkebeek, Dieter) The quantum black-box complexity of majority. (English summary) **2004j:81037**
Heggernes, Pinar *see* **Fiala, Jiří et al.**
Hella, Lauri *see* **Lemström, Kjell**, **2004i:68072**
Hemaspaandra, Lane A. (*with* Kosub, Sven; Wagner, Klaus W.) The complexity of computing the size of an interval. (English summary)
— (*with* Torenvliet, Leen) ★ Theory of semi-feasible algorithms. (English summary) **2004g:68048**
Henzinger, Thomas A. *see* **Chatterjee, Krishnendu et al.**, **2004k:68104**
Hepner, Clint (*with* Stein, Clifford) Minimizing makespan for the lazy bureaucrat problem. (English summary)
Hernando, Carmen (*with* Houle, Michael E.; Hurtado, Ferran) On local transformation of polygons with visibility properties. (English summary) **2004c:68145**
Hertz, Alain *see* **Gerber, Michael U. et al.**, **2004m:05190**
Hesse, William (*with* Allender, Eric; Barrington, David A. Mix) Uniform constant-depth threshold circuits for division and iterated multiplication. (English summary) **2004b:68057**
— Directed graphs requiring large numbers of shortcuts. (English summary) (*see* **2004a:68002**)
— The dynamic complexity of transitive closure is in DynTC^0. (English summary) **2004i:68042**
Hicks, Illya V. Branchwidth heuristics. (English summary) **2004e:68080**
Hiraishi, Kunihiko *see* **Koshiba, Takeshi**, **2004i:68096**
Hirsch, Edward A. Worst-case study of local search for MAX-k-SAT. (English summary) **2004k:68181**
Ho, Hann-Jang *see* **Lee, SingLing**, **2004f:05177**
Ho, Yu-Chi (*with* Zhao, Qian Chuan; Pepyne, David L.) The no free lunch theorems: complexity and security. (English summary) **2004c:93004**
Hochbaum, Dorit S. (*with* Tucker, Paul A.) Minimax problems with bitonic matrices. (English summary) **2004b:90173**
— (*with* Queyranne, Maurice) Minimizing a convex cost closure set. (English summary) **2004h:90060**
Hochberg, Robert A. (*with* Stallmann, Matthias F.) Optimal one-page tree embeddings in linear time. (English summary) **2004e:68117**
Holzer, Markus *see* **Beaudry, M. et al.**, **2004a:68061**
Homer, Steve *see* **Fortnow, Lance**
Horton, Joseph D. *see* **Golynski, Alexander**
Horton, S. B. (*with* Easton, Todd; Parker, R. Gary) The linear arrangement problem on recursively constructed graphs. (English summary) **2004g:05144**
Hota, Mrinmoy (*with* Pal, Madhumangal; Pal, Tapan K.) Optimal sequential and parallel algorithms to compute all cut vertices on trapezoid graphs. (English summary) **2004j:68143**
Houle, Michael E. *see* **Hernando, Carmen et al.**, **2004c:68145**
Howgrave-Graham, Nick A. (*with* Nguyen, Phong Q.; Shparlinski, Igor E.) Hidden number problem with hidden multipliers, timed-release crypto, and noisy exponentiation. (English summary) **2004e:94032**
Høyer, Peter (*with* Neerbek, Jan; Shi, Yaoyun) Quantum complexities of ordered searching, sorting, and element distinctness. (English summary) **2004g:68034**
Hromkovič, Juraj (*with* Schnitger, Georg) Nondeterministic communication with a limited number of advice bits. (English summary) **2004j:68064**
Huang, Xiao *see* **Cheng, Xiuzhen et al.**, **2004j:68196**
Huard, Guillaume *see* **Darte, Alain**, (**2004j:68020**)
Hunt, Harry B., III *see* **Barrett, Christopher L. et al.**, **2004h:37013**
Hurtado, Ferran *see* **Hernando, Carmen et al.**, **2004c:68145**
Hwang, Min-Shiang (*with* Yang, Chao-Chen; Tzeng, Shiang-Feng) Improved digital signature scheme based on factoring and discrete logarithms. (English summary) **2004c:94086**
Ianni, Giovambattista *see* **Angiulli, Fabrizio et al.**, **2004k:68164**
Igarashi, Yoshihide *see* **Chong, Ka Wong et al.**, **2004a:68157**
Indyk, Piotr (*with* Venkatasubramanian, Suresh) Approximate congruence in nearly linear time. (English summary) **2004a:68146**
— *see also* **Datar, Mayur et al.**, **2004e:68017**
Ingólfsdóttir, Anna *see* **Aceto, Luca et al.**, **2004e:03060**
Irving, Robert W. *see* **Halldórsson, Magnús M. et al.**, **2004h:68047**
Iwama, Kazuo *see* **Halldórsson, Magnús M. et al.**, **2004h:68047**
Jacobsen, Lars *see* **Biedl, Therese C. et al.**, **2004b:91041**
Jacobson, Sheldon H. *see* **Armstrong, Derek E.**, **2004c:90111**
Jain, Rahul (*with* Radhakrishnan, Jaikumar; Sen, Pranab) The quantum communication complexity of the pointer chasing problem: the bit version. (English summary) **2004k:68051**
Janczewski, Robert *see* **Giaro, Krzysztof et al.**, **2004f:05174**
Jeavons, Peter *see* **Krokhin, Andrei et al.**, **2004m:68215**
Jelenković, Predrag *see* **Baryshnikov, Yu. M. et al.**, **2004i:68236**
Jerrum, Mark *see* **Goldberg, Leslie Ann et al.**, **2004f:82007**
Johnson, Julie L. *see* **Eschen, Elaine M. et al.**, **2004d:68115**
Jonsson, Peter *see* **Broxvall, Mathias**, **2004j:68163***and* **Krokhin, Andrei et al.**, **2004m:68215**
Jukna, Stasys On the minimum number of negations leading to super-polynomial savings. (English summary) **2004j:68065**
Jung, Hermann (*with* Serna, Maria José; Spirakis, Paul G.) An efficient deterministic parallel algorithm for two processors precedence constraint scheduling. (English summary) **2004c:68158**
Jünger, Michael *see* **Buchheim, Christoph et al.**
Jurdziński, Marcin *see* **Chatterjee, Krishnendu et al.**, **2004k:68104**
Jurdziński, Tomasz *see* **Goerdt, Andreas**, **2004e:68123**
Kääriäinen, Matti *see* **Elomaa, Tapio**, **2004m:68203**
Kähler, Detlef (*with* Wilke, Thomas) Program complexity of dynamic LTL model checking. (English summary) **2004m:68159**
Kaibel, Volker (*with* Pfetsch, Marc E.) Some algorithmic problems in polytope theory. (English summary) **2004i:52012**
— (*with* Schwartz, Alexander) On the complexity of polytope isomorphism problems. (English summary) **2004e:05125**
Kaltofen, Erich (*with* Villard, Gilles) Computing the sign or the value of the determinant of an integer matrix, a complexity survey. (English summary) **2004k:15034**
Kamalyan, R. R. *see* **Mkrtchyan, V. V.**
Kan, W. K. *see* **Lau, Siu-chung et al.**, **2004c:68036a***and* **2004c:68036b**
Kang, Li-shan *see* **Yang, Hui et al.**
Kanj, Iyad A. (*with* Perković, Ljubomir) Improved parameterized algorithms for planar dominating set. (English summary)
Kára, Jan (*with* Kráľ, Daniel) Optimal free binary decision diagrams for computation of EAR$_n$. (English summary)
— *see also* **Dvořák, Zdeněk et al.**
(Karchmer, Mauricio) *see* **Grolmusz, Vince**, **2004d:68046**
Karhumäki, Juhani (*with* Plandowski, Wojciech; Rytter, Wojciech) The complexity of compressing subsegments of images described by finite automata. (English summary) **2004b:68174**
Karloff, Howard *see* **Călinescu, Gruia et al.**, **2004b:68186**
Karpinski, Marek Approximability of the minimum bisection problem: an algorithmic challenge. (English summary)
— *see also* **Berman, Piotr et al.**, **2004b:68180***and* **Ablaev, Farid M.**, **2004h:68035**
Kellerer, Hans[2] (*with* Strusevich, V. A.) Scheduling problems for parallel dedicated machines under multiple resource constraints. (English summary) **2004i:90044**
— (*with* Strusevich, V. A.) Scheduling parallel dedicated machines under a single non-shared resource. (English summary) **2004b:90041**
— (*with* Mansini, Renata; Pferschy, Ulrich; Speranza, Maria Grazia) An efficient fully polynomial approximation scheme for the subset-sum problem. (English summary) **2004b:68191**
Kervinen, Antti *see* **Valmari, Antti**, (**2004j:68004**)
Khachiyan, Leonid *see* **Boros, Endre et al.**, **2004i:68184**
Kilian, Joe *see* **Canetti, Ran et al.**, **2004b:94056**
Kim, Sung Kwon Linear-time algorithm for finding a maximum-density segment of a sequence. (English summary) **2004b:92022**
Kiwi, Marcos A. Algebraic testing and weight distributions of codes. (English summary) **2004e:68037**

Klaedtke, Felix *see* **Ayari, Abdelwaheb et al., 2004c:68064**
Kloks, Ton (*with* Lee, Chuan-Min; Liu, Jiping) New algorithms for k-face cover, k-feedback vertex set, and k-disjoint cycles on plane and planar graphs. (English summary)
Kłopotek, Mieczysław Alojzy A new Bayesian tree learning method with reduced time and space complexity. (English summary) **2004g:68143**
Kobler, Daniel (*with* Rotics, Udi) Edge dominating set and colorings on graphs with fixed clique-width. (English summary) **2004c:05142**
Kochol, Martin (*with* Lozin, Vadim V.; Randerath, Bert) The 3-colorability problem on graphs with maximum degree four. (English summary) **2004f:05058**
Kogan, Konstantin Scheduling parallel machines by the dynamic newsboy problem. (English summary) **2004m:90046**
Kolman, Petr A note on the greedy algorithm for the unsplittable flow problem. (English summary) **2004h:68156**
Koltun, Vladlen (*with* Sharir, Micha) 3-dimensional Euclidean Voronoi diagrams of lines with a fixed number of orientations. (English summary) **2004i:68228**
— (*with* Sharir, Micha) The partition technique for overlays of envelopes. (English summary) **2004h:68145**
Koprowski, Maciej *see* **Damgård, Ivan, 2004f:94059**
Korolev, V. Yu. *see* **Bening, Vladimir E. et al., 2004c:91062**
Kortenkamp, Ulrich H. *see* **Richter-Gebert, Jürgen, 2004k:68061**
Koshiba, Takeshi (*with* Hiraishi, Kunihiko) A note on finding one-variable patterns consistent with examples and counterexamples. (English summary) **2004i:68096**
Kosub, Sven *see* **Hemaspaandra, Lane A. et al.**
Kovalëv, M. Ya. *see* **Cheng, T. C. Edwin, 2004b:90036**
Kráľ, Daniel (*with* Kratochvíl, Jan; Voss, Heinz-Jürgen) Mixed hypergraphs with bounded degree: edge-coloring of mixed multigraphs. (English summary) **2004e:05129**
— (*with* Majerech, Vladan; Sgall, Jiří; Tichý, Tomáš; Woeginger, Gerhard J.) It is tough to be a plumber. (English summary)
— *see also* **Dvořák, Zdeněk et al.** *and* **Kára, Jan**
Kranakis, Evangelos (*with* Penna, Paolo; Schlude, Konrad; Taylor, David Scot; Widmayer, Peter) Improving customer proximity to railway stations. (English summary) (*see* **2004j:68002**)
Kratochvíl, Jan (*with* Tuza, Zsolt; Voigt, Margit) On the b-chromatic number of graphs. (English summary)
— *see also* **Kráľ, Daniel et al., 2004e:05129** *and* **Broersma, H. J. et al.**
Kratsch, Dieter (*with* McConnell, Ross M.; Mehlhorn, Kurt; Spinrad, Jeremy P.) Certifying algorithms for recognizing interval graphs and permutation graphs. (English summary) (*see* **2004a:68002**)
Krause, Matthias (*with* Lucks, Stefan) Pseudorandom functions in TC^0 and cryptographic limitations to proving lower bounds. (English summary) **2004c:68040**
Krishnamurthy, Arvind[1] *see* **Archer, Aaron et al., 2004k:91011**
Kristiansen, Petter *see* **Fiala, Jiří et al.**
Krivelevich, Michael (*with* Sudakov, Benny) Approximate coloring of uniform hypergraphs. (English summary) **2004m:05183**
Krokhin, Andrei (*with* Jeavons, Peter; Jonsson, Peter) The complexity of constraints on intervals and lengths. (English summary) **2004m:68215**
Krumke, Sven Oliver (*with* Marathe, Madhav V.; Poensgen, Diana; Ravi, S. S.; Wirth, Hans-Christoph) Budgeted maximum graph coverage. (English summary)
— (*with* de Paepe, Willem E.; Poensgen, Diana; Stougie, Leen) News from the online traveling repairman. (English summary) **2004c:68170**
Kučera, Antonín[2] (*with* Mayr, Richard) Why is simulation harder than bisimulation? (English summary) (*see* **2004j:68004**)
Kudryavtsev, A. A. *see* **Bening, Vladimir E. et al., 2004c:91062**
Kulanoot, A. *see* **Caccetta, Louis, 2004d:90069**
Kusakari, Yoshiyuki (*with* Nishizeki, Takao) Finding a region with the minimum total L_1 distance from prescribed terminals. (English summary) **2004b:68167**
Küsters, Ralf On the decidability of cryptographic protocols with open-ended data structures. (English summary) (*see* **2004j:68004**)
— (*with* Wilke, Thomas) Deciding the first level of the μ-calculus alternation hierarchy. (English summary) **2004k:68112**
Kutin, Samuel *see* **Hayes, Thomas P. et al., 2004j:81037**
Kutten, Shay (*with* Peleg, David; Vishkin, Uzi) Deterministic resource discovery in distributed networks. (English summary) **2004h:68008**
do Lago, Alair Pereira (*with* Simon, Imre) ★ Tópicos em algoritmos sobre seqüências. (Portuguese) [Algorithms for computing sequences] **2004m:68002**
Lam, Tak Wah *see* **Chong, Ka Wong et al., 2004a:68157**
Lanctot, J. Kevin (*with* Li, Ming[1]; Ma, Bin; Wang, Shaojiu; Zhang, Louxin) Distinguishing string selection problems. (English summary) **2004i:68241**
Lang, Jérôme Possibilistic logic: complexity and algorithms. **2004e:68104**
— (*with* Liberatore, Paolo; Marquis, Pierre) Propositional independence: formula-variable independence and forgetting. (English summary) **2004f:68149**
Lange, Martin (*with* Stirling, Colin) Model checking fixed point logic with chop. (English summary) **2004a:68089**
Langerman, Stefan (*with* Morin, Pat; Soss, Michael) Computing the maximum detour and spanning ratio of planar paths, trees, and cycles. (English summary) **2004m:68194**
— The complexity of halfspace area queries. (English summary) **2004i:68229**
Laporte, Gilbert *see* **Gendreau, Michel et al., 2004k:90058**
Lari, Isabella (*with* Ricca, Federica; Scozzari, Andrea) The forest wrapping problem on outerplanar graphs. (English summary)
Larmore, Lawrence L. *see* **Berman, Piotr et al., 2004b:68180** *and* **Bein, Wolfgang W. et al., 2004f:68026**
Larose, Benoit (*with* Zádori, László) The complexity of the extendibility problem for finite posets. (English summary) **2004h:06007**
Latifi, Shahram *see* **Bein, Wolfgang W. et al., 2004f:68026**
Lau, Francis C. M. (*with* Zhang, Shu Hua[1]) Optimal gossiping in paths and cycles. (English summary) **2004i:68007**
Lau, Siu-chung (*with* Young, Gilbert H.; Kan, W. K.; Wu, Yu-Liang) On open-ends bin packing problem. (English summary) **2004c:68036a**
— (*with* Young, Gilbert H.; Kan, W. K.; Wu, Yu-Liang) On-line open-end bin packing. (English summary) **2004c:68036b**
Lavi, Ron (*with* Nisan, Noam) Competitive analysis of incentive compatible on-line auctions. (English summary) **2004i:68065**
Le, Hoàng-Oanh *see* **Brandstädt, Andreas et al., 2004b:68122** *and* **2004h:05120**
Le, Van Bang (*with* Spinrad, Jeremy P.) Consequences of an algorithm for bridged graphs. (English summary) **2004k:05192**
— *see also* **Brandstädt, Andreas et al., 2004h:05120**
Lebedev, V. N. *see* **Averbakh, Igor, 2004m:90165**
Lee, Chuan-Min *see* **Kloks, Ton et al.**
Lee, SingLing (*with* Ho, Hann-Jang) On minimizing the maximum congestion for weighted hypergraph embedding in a cycle. (English summary) **2004f:05177**
Lee, Tae-Eog *see* **Hall, Nicholas G. et al., 2004g:90041**
Leipert, Sebastian *see* **Buchheim, Christoph et al.**
Lemström, Kjell (*with* Hella, Lauri) Approximate pattern matching and transitive closure logics. (English summary) **2004i:68072**
Léonard, Martine *see* **Groult, Richard et al., 2004j:68146**
Leone, Michele *see* **Franz, Silvio, 2004h:82047**
Letz, Reinhold Lemma and model caching in decision procedures for quantified Boolean formulas. (English summary) (*see* **2004k:68003**)
Leung, Joseph Y.-T. (*with* Pinedo, Michael) Minimizing total completion time on parallel machines with deadline constraints. (English summary) **2004k:90045**
Leuzzi, L. *see* **Crisanti, A. et al., 2004c:82050**
Levcopoulos, Christos *see* **Andersson, Mattias et al., 2004k:68166**
Lewenstein, Moshe *see* **Amir, Amihood et al., 2004m:68269**
Lewiner, Thomas (*with* Lopes, Hélio; Tavares dos Santos, Geovan) Toward optimality in discrete Morse theory. (English summary) **2004k:58017**
Li, Cheng *see* **Xie, Gaoyan et al., (2004j:68014)**
Li, Chu-Min Equivalent literal propagation in the DLL procedure. (English summary) **2004i:68193**
Li, Dafa Is DNA computing viable for 3-SAT problems? (English summary) **2004f:68038**
Li, Deying *see* **Cheng, Xiuzhen et al., 2004j:68196**
Li, Jing *see* **Bonizzoni, Paola et al., 2004j:92042**
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Liao, Chung-Shou (*with* Chang, Gerard J.) k-tuple domination in graphs. (English summary) **2004c:05143**
Liberatore, Paolo *see* **Lang, Jérôme et al., 2004f:68149**
Lim, Darren T. *see* **Breimer, Eric A. et al., 2004m:68201**
Lin, Xuemin (*with* Eades, Peter) Towards area requirements for drawing hierarchically planar graphs. (English summary) **2004d:68166**
Lin, Yaw-Ling Minimum back-walk-free latency problem (extended abstract). (English summary)
Lin, Yi-xun *see* **Zhang, Jian Zhong, 2004a:90110**
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Liotta, Giuseppe *see* **Di Giacomo, Emilio et al.**
Lipták, Zsuzsanna *see* **Cieliebak, Mark et al., 2004m:92039**
Liśkiewicz, Maciej (*with* Ogihara, Mitsunori; Toda, Seinosuke) The complexity of counting self-avoiding walks in subgraphs of two-dimensional grids and hypercubes. (English summary) **2004c:68041**
Litow, B. Inequality of finite behaviors of rational weight finite automata is in R. (English summary) **2004e:68059**
Liu, Jian-Qin (*with* Shimohara, Katsunori) Signaling-pathway-based molecular computing for efficient 3-SAT problem solving. (English summary)
Liu, Jiping *see* **Kloks, Ton et al.**
Liu, Yongmei[1] *see* **Cook, Stephen A., 2004f:68141**
Liu, Zhaohui *see* **Ng, C. T. Daniel et al., 2004b:90045**
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Lomonaco, Samuel J., Jr. Shor's quantum factoring algorithm. (English summary) (*see* **2004h:81070**)
Lopes, Hélio *see* **Lewiner, Thomas et al., 2004k:58017**
López-Ortiz, Alejandro *see* **Demaine, Erik D., 2004g:68187**
Lotem, Amnon *see* **Fagin, Ronald et al., 2004h:68029**
Lozin, Vadim V. *see* **Bolyak, R. I., 2004c:68107**; **Kochol, Martin et al., 2004f:05058** *and* **Alekseev, Vladimir E. et al., 2004m:05093**
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Lu, Chin Lung (*with* Peng, Shen Lung; Tang, Chuan Yi) Efficient minus and signed domination in graphs. (English summary) **2004a:05117**
Luccio, Flaminia L. *see* **Flocchini, Paola, 2004f:68002**
Lucena, Brian A new lower bound for tree-width using maximum cardinality search. (English summary) **2004g:68133**
Lucks, Stefan *see* **Krause, Matthias, 2004c:68040**
Lugiez, Denis *see* **Amadio, Roberto M. et al., 2004h:68032**
Lynce, Inês (*with* Marques-Silva, João P.) An overview of backtrack search satisfiability algorithms. (English summary) **2004d:68141**
Lynch, James F. Analysis and application of adaptive sampling. (English summary) **2004j:68051**
Ma, Bin *see* **Lanctot, J. Kevin et al., 2004i:68241**
(van Maaren, Hans) *see* **Renesse issue on satisfiability**
Madelaine, Florent R. *see* **Feder, Tomás et al., 2004m:68212**
Magen, Avner *see* **Czumaj, Artur et al., (2004a:68002)**
Majerech, Vladan *see* **Kráľ, Daniel et al.**
Mäkinen, Erkki *see* **Tiplea, Ferucio Laurenţiu, 2004h:68064**
Mäkinen, Veli (*with* Ukkonen, Esko) Local similarity based point-pattern matching. (English summary)
Makino, Kazuhisa *see* **Boros, Endre et al., 2004i:68184** *and* **Eiter, Thomas, 2004m:68220**
Makowsky, Johann A. (*with* Mariño, J. P.) Farrell polynomials on graphs of bounded tree width. (English summary) **2004g:05146**
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Małafiejski, Michał *see* **Giaro, Krzysztof et al., 2004f:05174**
Manca, Vincenzo DNA and membrane algorithms for SAT. (English summary) **2004i:68059**
Maneth, Sebastian The complexity of compositions of deterministic tree transducers. (English summary) **2004k:68096**
Manlove, David F. *see* **Halldórsson, Magnús M. et al., 2004h:68047**
Mansini, Renata *see* **Kellerer, Hans[2] et al., 2004b:68191**
Mansour, Yishay *see* **Bshouty, Nader H., 2004e:68044**
Marathe, Madhav V. *see* **Barrett, Christopher L. et al., 2004h:37013** *and* **Krumke, Sven Oliver et al.**
Marchenkov, S. S. On the polynomial computability of some rudimentary predicates. (Russian. Russian summary) **2004e:03074**
Marcinkowski, Jerzy (*with* Truderung, Tomasz) Optimal complexity bounds for positive LTL games. (English summary) **2004m:68164**
Marckert, Jean-François *see* **Chassaing, Philippe et al., 2004j:68202**
Marcotte, Patrice (*with* Savard, Gilles; Semet, Frédéric) A bilevel programming approach to the travelling salesman problem. (English summary) **2004m:90181**
Mariño, J. P. *see* **Makowsky, Johann A., 2004g:05146** *and* **2004g:68134**
Markey, Nicolas (*with* Schnoebelen, Ph.) A PTIME-complete matching problem for SLP-compressed words. (English summary) **2004k:68059**
Marques-Silva, João P. *see* **Lynce, Inês, 2004d:68141**
Marquis, Pierre *see* **Lang, Jérôme et al., 2004f:68149**
Martello, Silvano *see* **Dell'Amico, Mauro, 2004f:90047**
Maruoka, Akira *see* **Amano, Kazuyuki, 2004m:68069**
Marx, Dániel The complexity of tree multicolorings. (English summary)
Marx, Maarten XPath and modal logics of finite DAG's. (English summary) (*see* **2004k:03007**)
Matamala, Martin *see* **Fomin, Fedor V. et al.**
Mathé, Peter (*with* Wei, Gang[1]) Quasi-Monte Carlo integration over $\mathbb{R}^d$. (English summary) **2004k:65008**
Mayer, Ernst W. *see* **Crandall, Richard E. et al., 2004c:11236**
Mayr, Richard *see* **Kučera, Antonín[2], (2004j:68004)**
McConnell, Ross M. Linear-time recognition of circular-arc graphs. (English summary) **2004e:05187**
— *see also* **Kratsch, Dieter et al., (2004a:68002)**
McCormick, S. Thomas (*with* Rao, M. Rammohan; Rinaldi, Giovanni) Easy and difficult objective functions for Max Cut. (English summary) **2004c:90082**
Mehlhorn, Kurt *see* **Althaus, Ernst et al., 2004m:65023** *and* **Kratsch, Dieter et al., (2004a:68002)**
Meijer, Henk *see* **Fekete, Sándor P. et al., 2004d:90136**
van Melkebeek, Dieter *see* **Hayes, Thomas P. et al., 2004j:81037**
Messner, Jochen *see* **Esteban, Juan Luis et al.**
Meyer, David A. Quantum games and quantum algorithms. (English summary) **2004a:81059**
Mézard, Marc Optimization and physics: on the satisfiability of random Boolean formulae. (English summary) **2004k:90177**
— (*with* Ricci-Tersenghi, Federico; Zecchina, Riccardo) Two solutions to diluted p-spin models and XORSAT problems. (English summary) **2004g:82060**
Micciancio, Daniele (*with* Goldwasser, Shafi) ★ Complexity of lattice problems. **2004m:94067**
— *see also* **Dumer, Ilya et al., 2004a:68034**
Middendorf, Martin (*with* Timkovskiĭ, V. G.) On scheduling cycle shops: classification, complexity and approximation. (English summary) **2004f:90050**
Mignosi, Filippo *see* **Béal, Marie-Pierre et al., 2004j:68144**
Milanfar, Peyman *see* **Gardner, Richard J., 2004a:68145**
Mitchell, Joseph S. B. *see* **Sztainberg, Marcelo O. et al.**
Miyahara, Tetsuhiro *see* **Suzuki, Yusuke[2] et al., (2004j:68006)**
Miyazaki, Shuichi *see* **Halldórsson, Magnús M. et al., 2004h:68047**
Mkrtchyan, V. V. (*with* Kamalyan, R. R.) On the NP-completeness of "connected 3-satisfiability". (Russian. Armenian summary)
Molnárová, Monika Computational complexity of Nachtigall's representation. (English summary) **2004a:05097**
Momčilović, Petar *see* **Baryshnikov, Yu. M. et al., 2004i:68236**
Monnot, Jérôme *see* **Demange, Marc et al.**
Moriguchi, Satoko (*with* Shioura, Akiyoshi) On Hochbaum's proximity-scaling algorithm for the general resource allocation problem. (English summary)
Morin, Pat *see* **Langerman, Stefan et al., 2004m:68194**
Morita, Yasufumi *see* **Halldórsson, Magnús M. et al., 2004h:68047**
Mosca, Raffaele *see* **Brandstädt, Andreas et al.**
Moscato, Pablo *see* **Cotta, Carlos, 2004k:68057**
Moschovakis, Yiannis N. On primitive recursive algorithms and the greatest common divisor function. (English summary) **2004g:03065**
Moses, Yoram (*with* Rajsbaum, Sergio) A layered analysis of consensus. (English summary) **2004e:68011**
Moshkov, Mikhail On decision trees for (1, 2)-Bayesian networks. (English summary) **2004h:68134**
Mossel, Elchanan (*with* Umans, Christopher) On the complexity of approximating the VC dimension. (English summary) **2004c:68047**
Motwani, Rajeev *see* **Datar, Mayur et al., 2004e:68017**
Mouchard, Laurent *see* **Groult, Richard et al., 2004j:68146**
Mukhopadhyay, Supratik *see* **Charatonik, Witold et al., 2004i:68134**
Müller, Haiko *see* **Cryan, Mary et al., (2004a:68002)**
Müller, Martin[2] *see* **Zhou, Jianjun, 2004h:68160** *and* **2004m:90127**
Munro, J. Ian *see* **Biedl, Therese C. et al., 2004b:91041**
Muscholl, Anca *see* **Lohrey, Markus, 2004a:68093** *and* **Diekert, Volker**
Muthukrishnan, S. Muthu *see* **Berman, Piotr et al., 2004d:68181**
Nagamochi, Hiroshi An approximation for finding a smallest 2-edge-connected subgraph containing a specified spanning tree. (English summary) **2004c:05193**
Näher, Stefan *see* **Althaus, Ernst et al., 2004m:65023**
Nakano, Koji (*with* Olariu, Stephan; Zomaya, Albert Y.) A time-optimal solution for the path cover problem on cographs. (English summary) **2004b:68181**
Namprempre, C. *see* **Bellare, M. et al., 2004g:94043**
Naor, Moni *see* **Fagin, Ronald et al., 2004h:68029**
Napolano, Vincenzo *see* **Castellani, Tommaso et al., 2004k:90142**
Narasimhan, Giri *see* **Andersson, Mattias et al., 2004k:68166**
Narayanaswamy, N. S. *see* **Backofen, Rolf et al., 2004m:68070**
Nardelli, Enrico (*with* Proietti, Guido; Widmayer, Peter) Finding the most vital node of a shortest path. (English summary) **2004a:68116**
Narizzano, Massimo *see* **Giunchiglia, Enrico et al., 2004c:68122**
Neerbek, Jan *see* **Høyer, Peter et al., 2004g:68034**
Nešetřil, Jaroslav *see* **Bodirsky, Manuel, 2004m:03116** *and* **Broersma, H. J. et al.**
Newman, Ilan *see* **Grolmusz, Vince, 2004d:68046** *and* **Czumaj, Artur et al., (2004a:68002)**
Ng, C. T. Daniel (*with* Cheng, T. C. Edwin; Yuan, Jin Jiang; Liu, Zhaohui) On the single machine serial batching scheduling problem to minimize total completion time with precedence constraints, release dates and identical processing times. (English summary) **2004b:90045**
Nguyen, Linh Anh The modal query language MDatalog. (English summary) **2004f:68028**
Nguyen, Phong Q. *see* **Howgrave-Graham, Nick A. et al., 2004e:94032**
Nickelsen, Arfst (*with* Tantau, Till) On reachability in graphs with bounded independence number. (English summary)
Niedermeier, Rolf (*with* Rossmanith, Peter) On efficient fixed-parameter algorithms for weighted vertex cover. (English summary) **2004d:68121**
— *see also* **Alber, Jochen et al., 2004m:68188**
Niemann, Gundula *see* **Beaudry, M. et al., 2004a:68061**
Nikoletseas, Sotiris E. *see* **Fotakis, Dimitris A. et al.**
Nisan, Noam *see* **Lavi, Ron, 2004i:68065**
Nishimura, Naomi *see* **Hajiaghayi, Mohammad Taghi**
Nishizeki, Takao *see* **Kusakari, Yoshiyuki, 2004b:68167**
Occhiuto, M. Eugenia *see* **Bellia, Marco, 2004i:68192**
O'Connell, Thomas C. (*with* Stearns, Richard E.) Polynomial-time mechanisms for collective decision making. (English summary) (*see* **2004h:68003**)
Ogihara, Mitsunori *see* **Liśkiewicz, Maciej et al., 2004c:68041**
Okamoto, Yoshio Traveling salesman games with the Monge property. (English summary) **2004m:90185**
Okhotin, Alexander The hardest linear conjunctive language. (English summary) **2004c:68062**
— A recognition and parsing algorithm for arbitrary conjunctive grammars. (English summary) **2004a:68056**
Okol'nishnikova, E. A. Comparing the sizes of nondeterministic branching read-k-times programs. (English summary)
Olariu, Stephan *see* **Nakano, Koji et al., 2004b:68181**
Olivetti, Nicola Tableaux for Łukasiewicz infinite-valued logic. (English summary) **2004a:03024**
Ollivier, Yann Rate of convergence of crossover operators. (English summary) **2004g:68193**
Onn, Shmuel Convex matroid optimization. (English summary) **2004m:90124**
Orlin, James B. *see* **Ahuja, Ravindra K. et al., 2004j:90129**
Otto, Friedrich *see* **Beaudry, M. et al., 2004a:68061**
Overmars, Mark *see* **Soss, Michael et al., 2004j:68183**
de Paepe, Willem E. *see* **Krumke, Sven Oliver et al., 2004c:68170**
Pak, Igor On sampling integer points in polyhedra. (English summary) **2004m:52028**
— Tile invariants: new horizons. (English summary) **2004k:52027**
Pal, Madhumangal *see* **Hota, Mrinmoy et al., 2004j:68143**
Pal, Tapan K. *see* **Hota, Mrinmoy et al., 2004j:68143**
Pallottino, Stefano *see* **Ahuja, Ravindra K. et al., 2004j:90129**
Palopoli, Luigi *see* **Angiulli, Fabrizio et al., 2004k:68164**
Pan, Victor Y. *see* **Wang, Xinmao, 2004a:68173**
Pangrác, Ondřej *see* **Dvořák, Zdeněk et al.**
Panyukov, V. V. Construction of the convex hull of a set in a minimum number of iterations. (Russian. Russian summary) **2004j:68182**
Papadopoulos, Jason S. *see* **Crandall, Richard E. et al., 2004c:11236**
Papadopoulou, Vicky G. *see* **Fotakis, Dimitris A. et al.**
Pardo, L. M. *see* **Castro, D. et al., 2004b:11093**
Parisi, Giorgio *see* **Crisanti, A. et al., 2004c:82050**
Park, Kunsoo *see* **Sim, Jeong Seop, 2004j:68068**
Parker, R. Gary *see* **Horton, S. B. et al., 2004g:05144**
Parnas, Michal (*with* Ron, Dana; Rubinfeld, Ronitt) On testing convexity and submodularity. (English summary) **2004h:68159**
Paschos, Vangelis Th. Polynomial approximation and graph-coloring. (English summary) **2004b:68192**
— *see also* **Bazgan, Cristina, 2004b:90091** *and* **Demange, Marc et al.**
Paterson, M. S. *see* **Goldberg, Leslie Ann et al., 2004f:82007**
Patt-Shamir, Boaz *see* **Brakerski, Zvika et al., 2004h:90020**
Pe'er, Itsik (*with* Shamir, Ron; Sharan, Roded) On the generality of phylogenies from incomplete directed characters. (English summary)
Peleg, David *see* **Kutten, Shay et al., 2004h:68008** *and* **Elkin, Michael, 2004m:68284**
Peng, Shen Lung *see* **Lu, Chin Lung et al., 2004a:05117**
Penna, Paolo *see* **Kranakis, Evangelos et al., (2004j:68002)**
Pepyne, David L. *see* **Ho, Yu-Chi et al., 2004c:93004**
Pérennès, Stéphane *see* **Bermond, Jean-Claude et al., 2004g:68003**
Perković, Ljubomir *see* **Kanj, Iyad A.**
Petit, Jordi *see* **Díaz, Josep et al., 2004b:68199**
Petrank, Erez *see* **Canetti, Ran et al., 2004b:94056**
Pferschy, Ulrich *see* **Kellerer, Hans[2] et al., 2004b:68191**
Pfetsch, Marc E. *see* **Kaibel, Volker, 2004i:52012**
Piazza, Carla *see* **Dovier, Agostino et al., 2004m:03039** *and* **Gentilini, Raffaella et al., (2004a:68002)**
Pinedo, Michael *see* **Leung, Joseph Y.-T., 2004k:90045**

Pippenger, Nicholas The shortest disjunctive normal form of a random Boolean function. (English summary) **2004b:68130**
Plandowski, Wojciech *see* **Karhumäki, Juhani et al., 2004b:68174** *and* **Berman, Piotr et al., 2004b:68180**
Plaskota, Leszek (*with* Ritter, Klaus; Wasilkowski, Grzegorz W.) Average case complexity of weighted integration and approximation over $\mathbb{R}^d$ with isotropic weight. (English summary) **2004b:65221**
Poensgen, Diana *see* **Krumke, Sven Oliver et al., 2004c:68170**
Pointcheval, David *see* **Bellare, M. et al., 2004g:94043**
Policriti, Alberto *see* **Gentilini, Raffaella et al.,** (**2004a:68002**)
Pollack, Richard M. *see* **Basu, Saugata et al., 2004g:14064**
Pönitz, André *see* **Dohmen, Klaus et al., 2004j:05053**
Pontelli, Enrico *see* **Dovier, Agostino et al., 2004m:03039**
Poon, Chung Keung (*with* Ramachandran, Vijaya) A randomized linear-work EREW PRAM algorithm to find a minimum spanning forest. (English summary) **2004a:68158**
— (*with* Zhang, Pixing) Minimizing makespan in batch machine scheduling. (English summary) **2004m:90053**
Popova-Zeugmann, Louchka (*with* Werner, Matthias; Richling, Jan) Using state equation to prove non-reachability in timed Petrinets. (English summary) **2004j:68135**
Porat, Ely *see* **Amir, Amihood et al., 2004m:68269**
Posner, Marc E. *see* **Hall, Nicholas G. et al., 2004g:90041**
Pratt-Hartmann, Ian A topological constraint language with component counting. (English summary) **2004d:03068**
— Fragments of language. (English summary) **2004m:68248**
Proietti, Guido *see* **Nardelli, Enrico et al., 2004a:68116**
Prolubnikov, A. V. An estimate for the approximate solution of the covering problem by Chvatal's algorithm. (Russian. English summary) **2004a:68166**
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Provan, J. Scott A polynomial-time algorithm to find shortest paths with recourse. (English summary) **2004a:90108**
Pudlák, Pavel On reducibility and symmetry of disjoint NP pairs. (English summary) **2004c:68044**
Qian, Ji Xin *see* **Cai, Yan Guang et al., 2004d:68110**
Qian, Jianbo *see* **Duncan, Rob et al., 2004b:68163**
Queyranne, Maurice *see* **Hochbaum, Dorit S., 2004h:90060**
Radhakrishnan, Jaikumar (*with* Sen, Pranab; Venkatesh, Srinivasan) The quantum complexity of set membership. (English summary) **2004m:81058**
— *see also* **Jain, Rahul et al., 2004k:68051**
Radzik, Tomasz Improving time bounds on maximum generalised flow computations by contracting the network. (English summary) **2004m:90016**
Rajaraman, Anand (*with* Ullman, Jeffrey D.) Querying websites using compact skeletons. (English summary) **2004h:68031**
Rajsbaum, Sergio *see* **Moses, Yoram, 2004e:68011**
Ramachandran, Vijaya *see* **Poon, Chung Keung, 2004a:68158**
Ramesh, H. (*with* Vinay, V.) String matching in $\tilde{O}(\sqrt{n}+\sqrt{m})$ quantum time. (English summary) **2004j:81040**
Ramírez, Javier *see* **Yañez Gestoso, Javier, 2004c:05079**
Randerath, Bert *see* **Kochol, Martin et al., 2004f:05058**
Rao, M. Rammohan *see* **McCormick, S. Thomas et al., 2004c:90082**
Rapaport, Ivan *see* **Fomin, Fedor V. et al.**
Rasmussen, Lars *see* **Chien, Steve et al., 2004m:68280**
Raspaud, André *see* **Fertin, Guillaume,** (**2004a:05004**)
Ravi, S. S. *see* **Barrett, Christopher L. et al., 2004h:37013** *and* **Krumke, Sven Oliver et al.**
Raz, Ran *see* **Hartman, Tzvika, 2004i:05024**
Regan, Kenneth W. *see* **Aida, Shin et al., 2004m:68055**
Regev, Oded *see* **Azar, Yossi, 2004m:90166**
Régnier, Mireille Computational complexity of word counting. (English summary) (*see* **2004j:92001**)
Reinhardt, Klaus The complexity of translating logic to finite automata.
Restivo, Antonio *see* **Béal, Marie-Pierre et al., 2004j:68144**
Reuter, Florian *see* **Berghammer, Rudolf, 2004d:68180**
Reynolds, Mark Alexander The complexity of the temporal logic with "until" over general linear time. (English summary) **2004f:03026**
Ricca, Federica *see* **Lari, Isabella et al.**
Ricci-Tersenghi, Federico *see* **Mézard, Marc et al., 2004g:82060** *and* **Castellani, Tommaso et al., 2004k:90142**
Richardson, Daniel (*with* Elsonbaty, Ahmed) Use of algebraically independent numbers for zero recognition of polynomial terms. (English summary) **2004f:68190**
Richling, Jan *see* **Popova-Zeugmann, Louchka et al., 2004j:68135**
Richter-Gebert, Jürgen (*with* Kortenkamp, Ulrich H.) Complexity issues in dynamic geometry. (English summary) **2004k:68061**
de Rijke, Maarten *see* **Alechina, Natasha et al., 2004k:68036**
Rinaldi, Giovanni *see* **McCormick, S. Thomas et al., 2004c:90082**
Ritter, Klaus *see* **Plaskota, Leszek et al., 2004b:65221**
Roggenbach, Markus Determinization of Büchi-automata.
Rohe, André *see* **Fekete, Sándor P. et al., 2004d:90136**
Ron, Dana *see* **Parnas, Michal et al., 2004h:68159**
Rosen, Alon *see* **Canetti, Ran et al., 2004b:94056**
Rosenkrantz, Daniel J. *see* **Barrett, Christopher L. et al., 2004h:37013**
Rossmanith, Peter *see* **Niedermeier, Rolf, 2004d:68121**
Rothe, Jörg Exact complexity of exact-four-colorability. (English summary) **2004d:68123**
— (*with* Spakowski, Holger; Vogel, Jörg) Exact complexity of the winner problem for Young elections. (English summary) **2004g:68050**
Rothlauf, Franz ★ Representations for genetic and evolutionary algorithms. **2004a:68124**
Rotics, Udi *see* **Kobler, Daniel, 2004c:05142** *and* **Bodlaender, Hans L., 2004c:68106**
Roy, Marie-Françoise *see* **Basu, Saugata et al., 2004g:14064**
Rubenstein, D. *see* **Baryshnikov, Yu. M. et al., 2004i:68236**
Rubinfeld, Ronitt *see* **Parnas, Michal et al., 2004h:68159**; **Czumaj, Artur et al.,** (**2004a:68002**) *and* **Chazelle, Bernard et al.**
Rudnicki, Piotr (*with* Woeginger, Gerhard J.) The Post correspondence problem over a unary alphabet. (English summary) **2004d:03087**
Russell, Alexander C. *see* **Hallgren, Sean et al., 2004j:81036**
Rylander, Bart (*with* Foster, James A.) Computational complexity and genetic algorithms. (English summary) (*see* **2004i:68002**)
— (*with* Foster, James A.) Genetic algorithms, and hardness. (English summary) (*see* **2004i:68002**)
Rytter, Wojciech On maximal suffixes and constant-space linear-time versions of KMP algorithm. (English summary) **2004c:68156**
— *see also* **Karhumäki, Juhani et al., 2004b:68174** *and* **Berman, Piotr et al., 2004b:68180**
(Saks, Michael) *see* **Grolmusz, Vince, 2004d:68046**
Sami, Rahul *see* **Archer, Aaron et al., 2004k:91011**
Sanderson, Michael J. *see* **Chen, Duhong et al., 2004f:92018**
San Martin H., Jorge *see* **Castro, D. et al., 2004b:11093**
Sauerhoff, Martin Guess-and-verify versus unrestricted nondeterminism for OBDDs and one-way Turing machines. (English summary) **2004c:68034**
Savard, Gilles *see* **Marcotte, Patrice et al., 2004m:90181**
Savchuk, Dmytro M. On word problem in contracting automorphism groups of rooted trees. (English and Ukrainian summaries)
Schindl, David *see* **Gerber, Michael U. et al., 2004m:05190**
Schirra, Stefan *see* **Althaus, Ernst et al., 2004m:65023**
Schlude, Konrad *see* **Kranakis, Evangelos et al.,** (**2004j:68002**)
Schnitger, Georg *see* **Hromkovič, Juraj, 2004j:68064**
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Semanko, M. *see* **Bellare, M. et al., 2004g:94043**
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(Speckenmeyer, Ewald) *see* **Renesse issue on satisfiability**
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Stearns, Richard E. *see* **Barrett, Christopher L. et al., 2004h:37013** *and* **O'Connell, Thomas C., (2004h:68003)**
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Stougie, Leen *see* **Krumke, Sven Oliver et al., 2004c:68170**; **Dye, Shane et al., 2004j:90022** *and* **Cryan, Mary et al., (2004a:68002)**
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Todinca, Ioan *see* **Bouchitté, Vincent, 2004i:05149**
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Tsai, Ying Teh The constrained longest common subsequence problem. (English summary) **2004i:68259**
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Ukkonen, Esko *see* **Mäkinen, Veli**
Ullman, Jeffrey D. *see* **Rajaraman, Anand, 2004h:68031**
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Varpaaniemi, Kimmo Towards ambitious approximation algorithms in stubborn set optimization. (English summary) **2004i:68250**
Venkatasubramanian, Suresh *see* **Indyk, Piotr, 2004a:68146**
Venkatesh, Srinivasan *see* **Radhakrishnan, Jaikumar et al., 2004m:81058**
Vigneron, Antoine *see* **Duncan, Rob et al., 2004b:68163**
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Villard, Gilles *see* **Kaltofen, Erich, 2004k:15034**
Vinař, Tomáš *see* **Biedl, Therese C. et al., 2004d:68036**
Vinay, V. *see* **Ramesh, H., 2004j:81040**
Vishkin, Uzi *see* **Kutten, Shay et al., 2004h:68008**
Vitter, Jeffrey Scott *see* **Grossi, Roberto et al., (2004a:68002)**
Vogel, Jörg *see* **Rothe, Jörg et al., 2004g:68050**
Voigt, Margit *see* **Kratochvíl, Jan et al.**
Voloshin, V. I. *see* **Tuza, Zsolt, 2004d:68125**
Voss, Heinz-Jürgen *see* **Kráľ, Daniel et al., 2004e:05129**
Vygen, Jens A note on Schrijver's submodular function minimization algorithm. (English summary) **2004d:90075**
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Weigt, Martin *see* **Hartmann, Alexander K., 2004k:68187**
Weismantel, Robert *see* **Schulz, Andreas S., 2004i:90089**
Welzl, Emo *see* **Cieliebak, Mark et al., 2004m:92039**
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de Werra, Dominique *see* **Demange, Marc et al.**
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Widmayer, Peter *see* **Nardelli, Enrico et al., 2004a:68116**; **Eidenbenz, Stephan J., 2004h:68143** *and* **Kranakis, Evangelos et al., (2004j:68002)**
(Wigderson, Avi) *see* **Grolmusz, Vince, 2004d:68046**
Wilke, Thomas *see* **Küsters, Ralf, 2004k:68112** *and* **Kähler, Detlef, 2004m:68159**
Williamson, David P. *see* **Archer, Aaron, (2004a:68002)**
Wirth, Hans-Christoph *see* **Krumke, Sven Oliver et al.**
Wismath, Stephen K. *see* **Di Giacomo, Emilio et al.**
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Wu, Weili *see* **Cheng, Xiuzhen et al., 2004j:68196**
Wu, Xue *see* **Cao, Qiguo et al., 2004f:05098**
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Yeo, Anders *see* **Gutin, Gregory, 2004a:90104**
Yor, Marc *see* **Chassaing, Philippe et al., 2004j:68202**
Young, Gilbert H. *see* **Lau, Siu-chung et al., 2004c:68036a** *and* **2004c:68036b**
Yuan, Jin Jiang *see* **Ng, C. T. Daniel et al., 2004b:90045**
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Zang, Wenan *see* **Chen, Xujin**
Zecchina, Riccardo *see* **Mézard, Marc et al., 2004g:82060** *and* **Castellani, Tommaso et al., 2004k:90142**
Zelikovsky, Alexander *see* **Călinescu, Gruia et al., 2004b:68186**
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Special Issue:
  Parameterized computation and complexity ★ Special issue on parameterized computation and complexity.
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Ding, De-Cheng *see* **Yu, Liang, 2004m:68109**
Dinneen, Michael J. *see* **Calude, Cristian S. et al., 2004a:68047**
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Glier, Oliver Kolmogorov complexity and deterministic context-free languages. (English summary) **2004h:68059**
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Makarychev, Yury *see* **Makarychev, Konstantin et al., 2004b:94033**
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Romashchenko, Andrei *see* **Makarychev, Konstantin et al., 2004b:94033**
Semenov, Alekseĭ L′vovich *see* **Muchnik, An. A. et al., 2004f:03081**
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Skvortsov, D. P. *see* **Chernov, Alexey V. et al., 2004m:03102**
Skvortsova, Elena Z. *see* **Chernov, Alexey V. et al., 2004m:03102**
Sow, Daby M. (*with* Eleftheriadis, Alexandros) Complexity distortion theory. (English summary) **2004b:94041**
Tromp, John *see* **Li, Ming[1] et al.**
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Vitányi, Paul M. B. *see* **Li, Ming[1] et al., (2004a:68002)**
Vulpiani, Angelo *see* **Puglisi, Andrea et al., 2004d:68035**
West, Bruce J. *see* **Allegrini, Paolo et al., 2004k:94021**

Items listed otherwise than by author

Aspects of complexity ★ Aspects of complexity. **2004d:68050**
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68Q32 Computational learning theory [see also 68T05]

Abe, Naoki (*with* Biermann, Alan W.; Long, Philip M.) Reinforcement learning with immediate rewards and linear hypotheses. (English summary) **2004i:68091**
Akutsu, Tatsuya (*with* Ott, Sascha) Inferring a union of halfspaces from examples. (English summary)

Amano, Kazuyuki (*with* Maruoka, Akira) On learning monotone Boolean functions under the uniform distribution. (English summary)
Angluin, Dana Queries revisited. (English summary) **2004m:68110**
Arimura, Hiroki *see* **Sakamoto, Hiroshi[2] et al., 2004b:68077**
Balcázar, José L. (*with* Castro, Jorge; Guijarro, David) A general dimension for exact learning. (English summary) (*see* **2004j:68005**)
Ben-David, Shai (*with* Eiron, Nadav; Simon, Hans Ulrich) Limitations of learning via embeddings in Euclidean half spaces. (English summary) **2004f:68048**
Biermann, Alan W. *see* **Abe, Naoki et al., 2004i:68091**
Bshouty, Nader H. (*with* Gavinsky, Dmitry) On boosting with optimal poly-bounded distributions. (English summary) (*see* **2004j:68005**)
— (*with* Eiron, Nadav) Learning monotone DNF from a teacher that almost does not answer membership queries. (English summary) (*see* **2004j:68005**)
— (*with* Owshanko, Avi) Learning regular sets with an incomplete membership oracle. (English summary) (*see* **2004j:68005**)
— (*with* Burroughs, Lynn) Maximizing agreements and coagnostic learning. (English summary)
— (*with* Jackson, Jeffrey C.; Tamon, Christino) Exploring learnability between Exact and PAC. (English summary) (*see* **2004j:68006**)
— (*with* Burroughs, Lynn) Bounds for the minimum disagreement problem with applications to learning theory. (English summary) (*see* **2004j:68006**)
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— (*with* Gavinsky, Dmitry) On boosting with polynomially bounded distributions. (English summary) **2004f:68049**
— (*with* Mansour, Yishay) Simple learning algorithms for decision trees and multivariate polynomials. (English summary) **2004e:68044**
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— (*with* Jackson, Jeffrey C.; Tamon, Christino) Uniform-distribution attribute noise learnability. (English summary) **2004h:68060**
— (*with* Eiron, Nadav) Learning monotone DNF from a teacher that almost does not answer membership queries. (English summary) **2004a:68049**
— (*with* Jackson, Jeffrey C.; Tamon, Christino) More efficient PAC-learning of DNF with membership queries under the uniform distribution. (English summary) **2004j:68085**
Burroughs, Lynn *see* **Bshouty, Nader H.**, (**2004j:68006**) *and* (**2004j:68006**)
Case, John (*with* Jain, Sanjay[1]; Stephan, Frank; Wiehagen, Rolf) Robust learning—rich and poor. (English summary) (*see* **2004j:68005**)
Castro, Jorge *see* **Balcázar, José L. et al.**, (**2004j:68005**)
Cesa-Bianchi, Nicolò (*with* Lugosi, Gábor) Potential-based algorithms in on-line prediction and game theory. (English summary) (*see* **2004j:68005**)
Cheung, Dennis (*with* Cucker, Felipe) Learning from rounded-off data. (English summary) **2004b:68073**
Choi, Ben Inductive inference by using information compression. (English summary) **2004h:68061**
Cucker, Felipe *see* **Cheung, Dennis**, **2004b:68073**
Dalmau, Víctor (*with* Jeavons, Peter) Learnability of quantified formulas. (English summary) **2004i:68092**
Damaschke, Peter On parallel attribute-efficient learning. (English summary) **2004d:68059**
De Boeck, Bart (*with* Scheunders, Paul; Van Dyck, Dirk) From inductive inference to the fundamental equation of measurement. (English summary) (*see* **2004i:00015**)
Drewes, Frank (*with* Högberg, Johanna) Learning a regular tree language from a teacher. (English summary) (*see* **2004j:68010**)
Eiron, Nadav *see* **Bshouty, Nader H. et al., 2004a:68048**; **2004a:68049**; (**2004j:68005**) *and* **Ben-David, Shai et al., 2004f:68048**
El-Yaniv, Ran *see* **Nevo, Ziv**, **2004m:68117**
Even-Dar, Eyal (*with* Mansour, Yishay) Learning rates for Q-learning. (English summary) (*see* **2004j:68005**)
— (*with* Mannor, Shie; Mansour, Yishay) PAC bounds for multi-armed bandit and Markov decision processes. (English summary) (*see* **2004j:68006**)
Fernau, Henning Identifying terminal distinguishable languages. (English summary) **2004k:68073**
Fortnow, Lance (*with* Lutz, Jack H.) Prediction and dimension. (English summary) (*see* **2004j:68006**)
Freivalds, Rūsiņš Mārtiņš (*with* Smith, Carl H.) Category, measure, inductive inference: a triality theorem and its applications. (English summary) **2004b:68074**
Freund, Yoav Predicting a binary sequence almost as well as the optimal biased coin. (English summary) **2004c:68058**
Fronhöfer, Bertram (*with* Yamamoto, Akihiro) Minimised residue hypotheses in relevant logic. (English summary)
Gamarnik, David Extension of the PAC framework to finite and countable Markov chains. (English summary) **2004b:68075**
Gavinsky, Dmitry Optimally-smooth adaptive boosting and application to agnostic learning. (English summary)
— *see also* **Bshouty, Nader H.**, **2004f:68049** *and* (**2004j:68005**)
Goldberg, Paul W. When can two unsupervised learners achieve PAC separation? (English summary) (*see* **2004j:68005**)
Goldman, Sally A. (*with* Scott, Stephen D.) Multiple-instance learning of real-valued geometric patterns. (English summary) **2004j:68086**
Grieser, Gunter Reflective inductive inference of recursive functions. (English summary)
— (*with* Lange, Steffen) Incremental learning of approximations from positive data. (English summary) **2004i:68093**
— *see also* **Lange, Steffen et al., 2004b:68076** *and* **2004d:68060**
Grohe, Martin (*with* Turán, György) Learnability and definability in trees and similar structures. (English summary) **2004m:68111**
Guijarro, David *see* **Balcázar, José L. et al.**, (**2004j:68005**)
Harizanov, Valentina S. (*with* Stephan, Frank) On the learnability of vector spaces. (English summary)
Hatano, Kohei A simple boosting algorithm using multi-way branching decision trees. (English summary) **2004m:68112**
Hayashi, Susumu Mathematics based on learning. (English summary)
Hayashi, Yosuke (*with* Matsumoto, Satoshi; Shinohara, Ayumi; Takeda, Masayuki) Uniform characterizations of polynomial-query learnabilities. (English summary) **2004c:68059**
de la Higuera, Colin (*with* Oncina, Jose) Inferring deterministic linear languages. (English summary) (*see* **2004j:68006**)
— (*with* Janodet, J. C.) Inference of ω-languages from prefixes. (English summary) **2004m:68113**
Hiraishi, Kunihiko *see* **Koshiba, Takeshi**, **2004i:68096**
Hirata, Kouichi *see* **Sakamoto, Hiroshi[2] et al., 2004b:68077**
Hitchcock, John M. Fractal dimension and logarithmic loss unpredictability. (English summary) **2004h:68062**
Högberg, Johanna *see* **Drewes, Frank**, (**2004j:68010**)
Jackson, Jeffrey C. (*with* Tamon, Christino; Yamakami, Tomoyuki) Quantum DNF learnability revisited. (English summary)
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Jain, Sanjay[1] (*with* Kinber, Efim) Intrinsic complexity of learning geometrical concepts from positive data. (English summary) (*see* **2004j:68005**)
— (*with* Menzel, Wolfram; Stephan, Frank) Classes with easily learnable subclasses. (English summary)
— (*with* Stephan, Frank) A tour of robust learning. (English summary) **2004m:68114**
— The intrinsic complexity of learning: a survey. (English summary) **2004i:68094**
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— (*with* Stephan, Frank) Learning by switching type of information. (English summary) **2004f:68051**
— (*with* Kinber, Efim; Wiehagen, Rolf; Zeugmann, Thomas) On learning of functions refutably. (English summary) **2004c:68060**
— (*with* Stephan, Frank; Terwijn, Sebastiaan A.) Counting extensional differences in BC-learning. (English summary) **2004k:68074**
— *see also* **Case, John et al.**, (**2004j:68005**)
Janodet, J. C. *see* **de la Higuera, Colin**, **2004m:68113**
Jantke, Klaus P. *see* **Lange, Steffen et al., 2004d:68060**
Jeavons, Peter *see* **Dalmau, Víctor**, **2004i:68092**
Kalnishkan, Yu. A. (*with* Vyugin, Mikhail V.) On the absence of predictive complexity for some games. (English summary)
Kato, Hirotaka (*with* Matsumoto, Satoshi) Learning unions of regular pattern languages using queries. (Japanese. English summary) **2004m:68115**
Kinber, Efim *see* **Jain, Sanjay[1] et al., 2004c:68060**; **2004i:68095** *and* (**2004j:68005**)
Köbler, Johannes (*with* Lindner, Wolfgang) A general dimension for approximately learning Boolean functions. (English summary)
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Koshiba, Takeshi (*with* Hiraishi, Kunihiko) A note on finding one-variable patterns consistent with examples and counterexamples. (English summary) **2004i:68096**
Kushilevitz, Eyal *see* **Bshouty, Nader H. et al., 2004a:68048**
Lange, Steffen (*with* Grieser, Gunter) Variants of iterative learning. (English summary) **2004b:68076**
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— *see also* **Grieser, Gunter**, **2004i:68093**
Lee, Andrew C. On an application of graph theory to formal learning theory. (English summary) **2004m:68116**
Li, Ming[1] (*with* Tromp, John; Vitányi, Paul M. B.) Sharpening Occam's razor (extended abstract). (English summary)
Lindner, Wolfgang *see* **Köbler, Johannes**
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— *see also* **Abe, Naoki et al., 2004i:68091**
Lugosi, Gábor *see* **Cesa-Bianchi, Nicolò**, (**2004j:68005**)
Lutz, Jack H. *see* **Fortnow, Lance**, (**2004j:68006**)
Magnoni, Letizia (*with* Mirolli, Massimo; Montagna, Franco; Simi, Giulia) PAC learning of probability distributions over a discrete domain. (English summary) **2004g:68066**
Mannor, Shie *see* **Even-Dar, Eyal et al.**, (**2004j:68006**)
Mansour, Yishay *see* **Bshouty, Nader H., 2004e:68044**; **Even-Dar, Eyal et al.**, (**2004j:68006**) *and* (**2004j:68005**)
Marchand, Mario (*with* Shawe-Taylor, John) The set covering machine. (English summary) **2004f:68052**
Martin, Eric (*with* Sharma, Arun; Stephan, Frank) Learning, logic, and topology in a common framework. (English summary)
— (*with* Sharma, Arun; Stephan, Frank) Learning power and language expressiveness. (English summary) **2004d:68061**
Maruoka, Akira *see* **Amano, Kazuyuki**
Matsumoto, Satoshi *see* **Hayashi, Yosuke et al., 2004c:68059** *and* **Kato, Hirotaka**, **2004m:68115**
Mendelson, Shahar Learning relatively small classes. (English summary) (*see* **2004j:68005**)
— Geometric parameters of kernel machines. (English summary) (*see* **2004j:68006**)
Menzel, Wolfram *see* **Jain, Sanjay[1] et al.**
Merkle, Wolfgang (*with* Stephan, Frank) Refuting learning revisited. (English summary) **2004d:68062**
— (*with* Stephan, Frank) Trees and learning. (English summary) **2004j:68087**
Mirolli, Massimo *see* **Magnoni, Letizia et al., 2004g:68066**
Montagna, Franco *see* **Magnoni, Letizia et al., 2004g:68066**
Mossel, Elchanan (*with* O'Donnell, Ryan) On the noise sensitivity of monotone functions. (English summary) **2004g:68067**
Mukouchi, Yasuhito *see* **Sato, Masako**, **2004j:68088**
Nevo, Ziv (*with* El-Yaniv, Ran) On online learning of decision lists. (English summary) **2004m:68117**
O'Donnell, Ryan *see* **Mossel, Elchanan**, **2004g:68067**

Okamoto, Seishi (*with* Yugami, Nobuhiro) Effects of domain characteristics on instance-based learning algorithms. (English summary) **2004d:68063**
Oncina, Jose *see* **de la Higuera, Colin**, (**2004j:68006**)
Ott, Sascha *see* **Akutsu, Tatsuya**
Owshanko, Avi *see* **Bshouty, Nader H.**, (**2004j:68005**)
Papazian, Christophe *see* **Jain, Sanjay[1] et al.**, **2004i:68095**
Pontil, Massimiliano A note on different covering numbers in learning theory. (English summary) **2004k:68075**
Reidenbach, Daniel A negative result on inductive inference of extended pattern languages. (English summary)
Sakamoto, Hiroshi[2] (*with* Hirata, Kouichi; Arimura, Hiroki) Learning elementary formal systems with queries. (English summary) **2004b:68077**
Sato, Masako (*with* Mukouchi, Yasuhito) Learning of languages generated by patterns from positive examples. (English summary) **2004j:68088**
— *see also* **Uemura, Jin**
Scheunders, Paul *see* **De Boeck, Bart et al.**, (**2004i:00015**)
Schmidhuber, Jürgen The speed prior: a new simplicity measure yielding near-optimal computable predictions. (English summary) (*see* **2004j:68006**)
Scott, Stephen D. *see* **Goldman, Sally A.**, **2004j:68086**
Servedio, Rocco A. Separating quantum and classical learning. (English summary)
— On learning monotone DNF under product distributions. (English summary) (*see* **2004j:68005**)
— On learning embedded midbit functions. (English summary)
Sharma, Arun (*with* Stephan, Frank; Ventsov, Yu. G.) Generalized notions of mind change complexity. (English summary) **2004k:68076**
— *see also* **Martin, Eric et al.**, **2004d:68061**
Shawe-Taylor, John *see* **Marchand, Mario**, **2004f:68052**
Shinohara, Ayumi *see* **Hayashi, Yosuke et al.**, **2004c:68059**
Simi, Giulia *see* **Magnoni, Letizia et al.**, **2004g:68066**
Simon, Hans Ulrich How many queries are needed to learn one bit of information? (English summary) (*see* **2004j:68005**)
— How many missing answers can be tolerated by query learners? (English summary) **2004m:68118**
— How many queries are needed to learn one bit of information? (English summary) **2004j:68089**
— How many missing answers can be tolerated by query learners? (English summary) **2004m:68119**
— *see also* **Ben-David, Shai et al.**, **2004f:68048**
Smith, Carl H. *see* **Freivalds, Rūsiņš Mārtiņš**, **2004b:68074** *and* **Jain, Sanjay[1] et al.**, **2004i:68095**
Stephan, Frank *see* **Martin, Eric et al.**, **2004d:68061**; **Merkle, Wolfgang**, **2004d:68062**; **2004j:68087**; **Jain, Sanjay[1] et al.**, **2004f:68051**; **2004k:68074**; **2004m:68114**; **Sharma, Arun et al.**, **2004k:68076**; **Case, John et al.**, (**2004j:68005**) *and* **Harizanov, Valentina S.**
Takeda, Masayuki *see* **Hayashi, Yosuke et al.**, **2004c:68059**
Tamon, Christino *see* **Bshouty, Nader H. et al.**, **2004h:68060**; **2004j:68085**; (**2004j:68006**) *and* **Jackson, Jeffrey C. et al.**
Terwijn, Sebastiaan A. *see* **Jain, Sanjay[1] et al.**, **2004k:68074**
Torvik, Vetle I. (*with* Triantaphyllou, Evangelos) Guided inference of nested monotone Boolean functions. (English summary) **2004b:68078**
Triantaphyllou, Evangelos *see* **Torvik, Vetle I.**, **2004b:68078**
Tromp, John *see* **Li, Ming[1] et al.**
Tsaih, Ray The evolution of internal representation. (English summary)
Turán, György *see* **Grohe, Martin**, **2004m:68111**
Uemura, Jin (*with* Sato, Masako) Compactness and learning of classes of unions of erasing regular pattern languages. (English summary)
— Inference of regular patterns with erasing and nonerasing variables. (English summary) **2004a:68050**
Van Dyck, Dirk *see* **De Boeck, Bart et al.**, (**2004i:00015**)
Ventsov, Yu. G. *see* **Sharma, Arun et al.**, **2004k:68076**
Vitányi, Paul M. B. *see* **Li, Ming[1] et al.**
Vyugin, Mikhail V. *see* **Kalnishkan, Yu. A.**
Wiehagen, Rolf *see* **Jain, Sanjay[1] et al.**, **2004c:68060**; **2004i:68095** *and* **Case, John et al.**, (**2004j:68005**)
Yamakami, Tomoyuki *see* **Jackson, Jeffrey C. et al.**
Yamamoto, Akihiro *see* **Fronhöfer, Bertram**
Yang, Ke New lower bounds for statistical query learning. (English summary) (*see* **2004j:68006**)
Yokomori, Takashi Polynomial-time identification of very simple grammars from positive data. (English summary) **2004d:68064**
Yugami, Nobuhiro *see* **Okamoto, Seishi**, **2004d:68063**
Zeugmann, Thomas *see* **Jain, Sanjay[1] et al.**, **2004c:68060**
Zilles, Sandra On the synthesis of strategies identifying recursive functions. (English summary) (*see* **2004j:68005**)

Items with secondary classifications in 68Q32

(Abe, Naoki) *see* **Algorithmic learning theory**
Akanuma, Ryuta *see* **Suzuki, Yusuke[2] et al.**, (**2004j:68006**)
Bartlett, Peter L. (*with* Bousquet, Olivier; Mendelson, Shahar) Localized Rademacher complexities. (English summary) (*see* **2004j:68006**)
Ben-David, Shai (*with* Eiron, Nadav; Simon, Hans Ulrich) Limitations of learning via embeddings in Euclidean half-spaces. (English summary) (*see* **2004j:68005**)
— (*with* Long, Philip M.; Mansour, Yishay) Agnostic boosting. (English summary) (*see* **2004j:68005**)
— (*with* Eiron, Nadav; Long, Philip M.) On the difficulty of approximately maximizing agreements. (English summary) **2004d:68051**
Bousquet, Olivier (*with* Warmuth, Manfred K.) Tracking a small set of experts by mixing past posteriors. (English summary) (*see* **2004j:68005**)
— (*with* Koltchinskii, Vladimir; Panchenko, Dmitriĭ Anatol′evich) Some local measures of complexity of convex hulls and generalization bounds. (English summary) (*see* **2004j:68006**)
— *see also* **Bartlett, Peter L. et al.**, (**2004j:68006**)
Bshouty, Nader H. (*with* Feldman, Vitaly) On using extended statistical queries to avoid membership queries. (English summary) (*see* **2004j:68005**)
— (*with* Burroughs, Lynn) On the proper learning of axis-parallel concepts. (English summary) **2004m:68202**
Burroughs, Lynn *see* **Bshouty, Nader H.**, **2004m:68202**
Cesa-Bianchi, Nicolò Universal prediction. **2004c:62189**
Chickering, David Maxwell Optimal structure identification with greedy search. (English summary) **2004g:68141**
Eiron, Nadav *see* **Ben-David, Shai et al.**, **2004d:68051** *and* (**2004j:68005**)
Elomaa, Tapio (*with* Kääriäinen, Matti) The difficulty of reduced error pruning of leveled branching programs. (English summary) **2004m:68203**
Feldman, Vitaly *see* **Bshouty, Nader H.**, (**2004j:68005**)
Gale, Douglas (*with* Kariv, Shachar) Bayesian learning in social networks. (English summary) **2004j:91210**
Hayashi, Susumu (*with* Nakata, Masahiro) Towards limit computable mathematics. (English summary) (*see* **2004j:68022**)
(Helmbold, David) *see* **Computational learning theory**, **2004j:68005**
van den Herik, H. Jaap *see* **Smirnov, Evgeniĭ N. et al.**, **2004m:68206**
Kääriäinen, Matti *see* **Elomaa, Tapio**, **2004m:68203**
Kakade, Sham Optimizing average reward using discounted rewards. (English summary) (*see* **2004j:68005**)
Kalnishkan, Yu. A. (*with* Vyugin, Mikhail V.) Mixability and the existence of weak complexities. (English summary) (*see* **2004j:68006**)
Kariv, Shachar *see* **Gale, Douglas**, **2004j:91210**
(Khardon, R.) *see* **Algorithmic learning theory**
(Kivinen, Jyrki) *see* **Computational learning theory**, **2004j:68006**
Koltchinskii, Vladimir *see* **Bousquet, Olivier et al.**, (**2004j:68006**)
Krause, Matthias On the computational power of Boolean decision lists. (English summary) **2004m:68066**
Kremer, Ilan (*with* Nisan, Noam; Ron, Dana) Errata for: "On randomized one-round communication complexity" [Comput. Complexity **8** (1999), no. 1, 21–49; MR 2000c:68070]. **2004d:68057**
Lange, Steffen (*with* Nessel, Jochen) Decision lists over regular patterns. (English summary) **2004b:68095**
Long, Philip M. An upper bound on the sample complexity of PAC-learning halfspaces with respect to the uniform distribution. (English summary) **2004e:68087**
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Lugosi, Gábor (*with* Vayatis, Nicolas) A consistent strategy for boosting algorithms. (English summary) (*see* **2004j:68006**)
— Pattern classification and learning theory. **2004e:68090**
Malerba, Donato Learning recursive theories in the normal ILP setting. (English summary) **2004k:68026**
Mannor, Shie (*with* Meir, Ron; Zhang, Tong[2]) The consistency of greedy algorithms for classification. (English summary) (*see* **2004j:68006**)
Mansour, Yishay *see* **Ben-David, Shai et al.**, (**2004j:68005**)
Meir, Ron *see* **Mannor, Shie et al.**, (**2004j:68006**)
Mendelson, Shahar Geometric methods in the analysis of Glivenko-Cantelli classes. (English summary) (*see* **2004j:68005**)
— (*with* Williamson, Robert C.) Agnostic learning nonconvex function classes. (English summary) (*see* **2004j:68006**)
— (*with* Vershynin, Roman) Entropy, combinatorial dimensions and random averages. (English summary) (*see* **2004j:68006**)
— *see also* **Bartlett, Peter L. et al.**, (**2004j:68006**)
Miyahara, Tetsuhiro *see* **Suzuki, Yusuke[2] et al.**, (**2004j:68006**)
Mukherjee, Sayan *see* **Peshkin, Leonid**, (**2004j:68005**)
Mukouchi, Yasuhito (*with* Sato, Masako) Refutable language learning with a neighbor system. (English summary) **2004d:68138**
Nakamura, Masayuki (*with* Nomiya, Hiroki; Uehara, Kuniaki) Improvement of boosting algorithm by modifying the weighting rule. (English summary)
Nakata, Masahiro *see* **Hayashi, Susumu**, (**2004j:68022**)
Nessel, Jochen *see* **Lange, Steffen**, **2004b:68095**
Nisan, Noam *see* **Kremer, Ilan et al.**, **2004d:68057**
Nomiya, Hiroki *see* **Nakamura, Masayuki et al.**
Panchenko, Dmitriĭ Anatol′evich *see* **Bousquet, Olivier et al.**, (**2004j:68006**)
Parnas, Michal (*with* Ron, Dana; Samorodnitsky, Alex) Testing basic Boolean formulae. (English summary) **2004b:68068**
Peled, Doron (*with* Vardi, Moshe Y.; Yannakakis, Mihalis) Black box checking. (English summary) **2004g:68112**
Peshkin, Leonid (*with* Mukherjee, Sayan) Bounds on sample size for policy evaluation in Markov environments. (English summary) (*see* **2004j:68005**)
Poggio, Tomaso (*with* Smale, Stephen) The mathematics of learning: dealing with data. **2004i:62117**
Ratsaby, Joel On learning multicategory classification with sample queries. (English summary) **2004m:68207**
Rätsch, Gunnar (*with* Warmuth, Manfred K.) Maximizing the margin with boosting. (English summary) (*see* **2004j:68006**)
Ron, Dana Property testing. **2004c:68161**
— *see also* **Parnas, Michal et al.**, **2004b:68068** *and* **Kremer, Ilan et al.**, **2004d:68057**
Samorodnitsky, Alex *see* **Parnas, Michal et al.**, **2004b:68068**
Sato, Masako *see* **Mukouchi, Yasuhito**, **2004d:68138**
Schmitt, Michael Radial basis function neural networks have superlinear VC dimension. (English summary) (*see* **2004j:68005**)
Servedio, Rocco A. Smooth boosting and learning with malicious noise. (English summary) (*see* **2004j:68005**)
Shoudai, Takayoshi *see* **Suzuki, Yusuke[2] et al.**, (**2004j:68006**)
Simon, Hans Ulrich *see* **Ben-David, Shai et al.**, (**2004j:68005**)
(Sloan, Robert H.) *see* **Computational learning theory**, **2004j:68006**
Smale, Stephen *see* **Poggio, Tomaso**, **2004i:62117**

Smirnov, EvgeniĬN. (*with* van den Herik, H. Jaap; Sprinkhuizen-Kuyper, I. G.) A unifying version-space representation. (English summary) **2004m:68206**
Sprinkhuizen-Kuyper, I. G. *see* **Smirnov, EvgeniĬN. et al., 2004m:68206**
Steinwart, Ingo Entropy numbers of convex hulls and an application to learning algorithms. (English summary) **2004c:41055**
Suzuki, Yusuke² (*with* Shoudai, Takayoshi; Uchida, Tomoyuki; Miyahara, Tetsuhiro) Ordered term tree languages which are polynomial time inductively inferable from positive data. (English summary)
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Takimoto, Eiji (*with* Warmuth, Manfred K.) Path kernels and multiplicative updates. (English summary) (*see* **2004j:68006**)
(Turán, György) *see* **Knowledge discovery and learning**
Uchida, Tomoyuki *see* **Suzuki, Yusuke² et al., (2004j:68006)**
Uehara, Kuniaki *see* **Nakamura, Masayuki et al.**
Vardi, Moshe Y. *see* **Peled, Doron et al., 2004g:68112**
Vayatis, Nicolas *see* **Lugosi, Gábor, (2004j:68006)**
Vershynin, Roman *see* **Mendelson, Shahar, (2004j:68006)**
Vyugin, Mikhail V. (*with* V′yugin, Vladimir V.) Predictive complexity and information. (English summary) (*see* **2004j:68006**)
— (*with* V′yugin, Vladimir V.) On complexity of easy predictable sequences. (English summary) **2004b:68072**
— *see also* **Kalnishkan, Yu. A., (2004j:68006)**
V′yugin, Vladimir V. *see* **Vyugin, Mikhail V., 2004b:68072** *and* **(2004j:68006)**
Warmuth, Manfred K. *see* **Takimoto, Eiji, (2004j:68006); Rätsch, Gunnar, (2004j:68006)** *and* **Bousquet, Olivier, (2004j:68005)**
Williamson, Robert C. *see* **Computational learning theory, 2004j:68005** *and* **Mendelson, Shahar, (2004j:68006)**
Yannakakis, Mihalis *see* **Peled, Doron et al., 2004g:68112**
Zhang, Tong² *see* **Mannor, Shie et al., (2004j:68006)**
Zhou, Ding Xuan Capacity of reproducing kernel spaces in learning theory. (English summary) **2004c:62095**
Zilles, Sandra Merging uniform inductive learners. (English summary) (*see* **2004j:68006**)

Items listed otherwise than by author

Algorithmic learning theory ★ Algorithmic learning theory.
Amsterdam ★ Computational learning theory. **2004j:68005**
Computational learning theory ★ Computational learning theory. **2004j:68005**
— ★ Computational learning theory. **2004j:68006**
— ★ Computational learning theory.
Knowledge discovery and learning ★ Knowledge discovery and learning.
Lecture Notes in Computer Science ★ Computational learning theory. **2004j:68005**
— ★ Computational learning theory. **2004j:68006**
Sydney ★ Computational learning theory. **2004j:68006**
Washington, DC ★ Algorithmic learning theory.

68Q42 Grammars and rewriting systems

Alonso Pardo, Miguel Á. (*with* Díaz, Víctor J.; Vilares Ferro, Manuel) Bidirectional push down automata. (English summary) (*see* **2004j:68013**)
Anchorena, Sergio (*with* Cases, Blanca) Modeling chaotic series by simple eco-grammar systems with reproduction, death and maturation of agents. (English summary)
Andrei, Ştefan (*with* Cavadini, Salvador Valerio; Chin, Wei-Ngan) A new algorithm for regularizing one-letter context-free grammars. (English summary) **2004g:68068**
— (*with* Chin, Wei-Ngan; Cavadini, Salvador Valerio) Self-embedded context-free grammars with regular counterparts. (English summary) **2004m:68120**
Aoto, Takahito (*with* Yamada, Toshiyuki) Termination of simply typed term rewriting by translation and labelling. (English summary)
Armando, Alessandro (*with* Ranise, Silvio; Rusinowitch, Michaël) A rewriting approach to satisfiability procedures. (English summary) **2004f:68053**
— (*with* Ranise, Silvio) Constraint contextual rewriting. (English summary) **2004g:68069**
Arthi, K. (*with* Krithivasan, Kamala; Csuhaj-Varjú, Erzsébet) On rule-number complexity of components of probabilistic cooperating distributed grammar systems. (English summary) **2004f:68054**
Aydin, Suna (*with* Bordihn, Henning) Sequential versus parallel grammar formalisms with respect to measures of descriptional complexity. (English summary) **2004g:68070**
Baldan, Paolo (*with* Corradini, Andrea; Montanari, Ugo) Bisimulation equivalences for graph grammars. (English summary) (*see* **2004j:00032**)
Barendsen, Erik Term graph rewriting. (English summary) **2004i:68097**
Barnard, Andries (*with* Ehlers, Elize M.) A comparative study of random context structure grammars and structure graph grammars. (English summary) (*see* **2004a:05003**)
ter Beek, Maurice H. (*with* Kleijn, Jetty) Petri net control for grammar systems. (English summary) (*see* **2004j:00032**)
Berstel, Jean (*with* Boasson, Luc) Balanced grammars and their languages. (English summary) (*see* **2004j:00032**)
Bethke, Inge Completion of equational specifications. (English summary) **2004i:68098**
Bezem, Marc (*with* Klop, Jan Willem) Abstract reduction systems. (English summary) **2004i:68099**
— (*with* Klop, Jan Willem; van Oostrom, Vincent) Advanced ARS-theory. (English summary) **2004i:68100**
Blanqui, Frédéric Rewriting modulo in deduction modulo. (English summary)
Boasson, Luc *see* **Berstel, Jean, (2004j:00032)**
Bofill, Miquel (*with* Godoy, Guillem; Nieuwenhuis, Robert; Rubio, Albert) Paramodulation and Knuth-Bendix completion with nontotal and nonmonotonic orderings. (English summary) **2004a:68051**
Bordihn, Henning (*with* Reichel, Bernd) On descriptions of context-free languages by CD grammar systems. (English summary) **2004f:68055**
— *see also* **Aydin, Suna, 2004g:68070**
Borralleras, Cristina (*with* Rubio, Albert) Monotonic AC-compatible semantic path orderings. (English summary)
Bottoni, Paolo (*with* Labella, Anna; Martín-Vide, Carlos; Păun, Gheorghe) Rewriting P systems with conditional communication. (English summary) (*see* **2004j:00032**)
Boullier, P. Counting with range concatenation grammars. (English summary) **2004g:68071**
Bournez, Olivier (*with* Hoyrup, Mathieu) Rewriting logic and probabilities. (English summary)
Brüggemann-Klein, Anne (*with* Wood, Derick) On predictive parsing and extended context-free grammars. (English summary) (*see* **2004j:68013**)
Cases, Blanca *see* **Anchorena, Sergio**
Castaño, José M. LR parsing for global index languages (GILs). (English summary) (*see* **2004j:68014**)
Cavadini, Salvador Valerio *see* **Andrei, Ştefan et al., 2004g:68068** *and* **2004m:68120**
Chin, Wei-Ngan *see* **Andrei, Ştefan et al., 2004g:68068** *and* **2004m:68120**
Comon-Lundh, Hubert (*with* Narendran, Paliath; Nieuwenhuis, Robert; Rusinowitch, Michaël) Deciding the confluence of ordered term rewrite systems. (English summary) **2004j:68090**
— (*with* Jacquemard, Florent) Ground reducibility is EXPTIME-complete. (English summary) **2004k:68077**
Corradini, Andrea *see* **Baldan, Paolo et al., (2004j:00032)**
Costagliola, Gennaro (*with* Deufemia, Vincenzo; Ferrucci, Filomena; Gravino, Carmine) On regular drawn symbolic picture languages. (English summary) **2004m:68121**
Crespi-Reghizzi, Stefano (*with* Pradella, Matteo) Tile rewriting grammars. (English summary) (*see* **2004j:68010**)
Csuhaj-Varjú, Erzsébet (*with* Vaszil, György) Parallel communicating grammar systems with incomplete information communication. (English summary) **2004a:68052**
— (*with* Păun, Gheorghe; Vaszil, György) PC grammar systems with five context-free components generate all recursively enumerable languages. (English summary) **2004d:68065**
— *see also* **Arthi, K. et al., 2004f:68054**
Daley, Mark (*with* Ibarra, Oscar H.; Kari, Lila) Closure and decidability properties of some language classes with respect to ciliate bio-operations. (English summary) **2004j:68091**
Darriba, Víctor M. *see* **Vilares Ferro, Manuel et al., (2004j:68014)**
Dassow, Jürgen On the differentiation function of some language generating devices. (English summary) (*see* **2004h:68006**)
Deufemia, Vincenzo *see* **Costagliola, Gennaro et al., 2004m:68121**
Díaz, Víctor J. *see* **Alonso Pardo, Miguel Á. et al., (2004j:68013)**
Dowek, Gilles Confluence as a cut elimination property. (English summary)
Drewes, Frank (*with* Engelfriet, Joost) Branching grammars: a generalization of ET0L systems. (English summary) (*see* **2004j:68010**)
— (*with* Klempien-Hinrichs, Renate; Kreowski, Hans-Jörg) Table-driven and context-sensitive collage languages. (English summary) **2004e:68045**
Ehlers, Elize M. *see* **Barnard, Andries, (2004a:05003)**
Eker, Steven Associative-commutative rewriting on large terms. (English summary)
Engelfriet, Joost *see* **Drewes, Frank, (2004j:68010)**
Ermel, Dirk (*with* Wätjen, Dietmar) Limited IL systems. (English summary) **2004e:68046**
Esparza, Javier Grammars as processes. (*see* **2004j:00032**)
Ewert, Sigrid (*with* van der Walt, Andries) The power and limitations of random context. (English summary) (*see* **2004i:00018**)
— *see also* **van der Walt, Andries, 2004c:68063**
Fernau, Henning (*with* Stiebe, Ralf) Valences in Lindenmayer systems. (English summary)
— (*with* Stiebe, Ralf) Valuated and valence grammars: an algebraic view. (English summary) **2004a:68053**
— (*with* Holzer, Markus) Graph-controlled cooperating distributed grammar systems with singleton components. (English summary) **2004f:68056**
— Parallel grammars: a phenomenology. (English summary) **2004e:68047**
— Nonterminal complexity of programmed grammars. (English summary) **2004c:68061**
— (*with* Holzer, Markus; Freund, Rudolf J.) Hybrid modes in cooperating distributed grammar systems: combining the t-mode with the modes $\leq k$ and $= k$. (English summary) **2004b:68079**
Ferretti, Claudio (*with* Mauri, Giancarlo; Păun, Gheorghe; Zandron, Claudio) On three variants of rewriting P systems. (English summary) **2004a:68054**
Ferrucci, Filomena *see* **Costagliola, Gennaro et al., 2004m:68121**
Forest, Julien (*with* Kesner, Delia) Expression reduction systems with patterns. (English summary)
Fortiş, Florin Contextual grammars with catenation closure properties. (English summary)
Fortiş, Teodor Florin On the generative capacity of contextual grammars with catenation. (English summary)
Freund, Rudolf J. *see* **Fernau, Henning et al., 2004b:68079**
Geser, Alfons (*with* Middeldorp, Aart; Ohlebusch, Enno; Zantema, Hans) Relative undecidability in term rewriting. I. The termination hierarchy. (English summary) **2004f:68057**
— (*with* Middeldorp, Aart; Ohlebusch, Enno; Zantema, Hans) Relative undecidability in term rewriting. II. The confluence hierarchy. (English summary) **2004f:68058**
— Termination of string rewriting rules that have one pair of overlaps. (English summary)
Giesl, Jürgen (*with* Zantema, Hans) Liveness in rewriting. (English summary)
— *see also* **Thiemann, René**
Glauert, John *see* **Khasidashvili, Zurab**
Godoy, Guillem *see* **Bofill, Miquel et al., 2004a:68051**
Gravino, Carmine *see* **Costagliola, Gennaro et al., 2004m:68121**
Hirose, Sadaki (*with* Okawa, Satoshi) Characterizations of language classes: universal grammars, Dyck reductions, and homomorphisms. (English summary) (*see* **2004i:00018**)
Hofbauer, Dieter (*with* Waldmann, Johannes) Deleting string rewriting systems preserve regularity. (English summary) (*see* **2004j:68010**)
Holzer, Markus *see* **Fernau, Henning et al., 2004b:68079** *and* **2004f:68056**
Honkala, Juha On the simplification of HD0L power series. (English summary) **2004g:68072**
— On D0L power series over various semirings. (English summary) **2004k:68078**

— On D0L systems with finite axiom sets. (English summary) **2004e:68048**
— Decidability results for Watson-Crick D0L systems with nonregular triggers. (English summary) **2004d:68066**
— Bounds for the D0L language equivalence problem. (English summary) **2004m:68122**
Hoyrup, Mathieu *see* **Bournez, Olivier**
Ibarra, Oscar H. *see* **Daley, Mark et al., 2004j:68091**
Ida, Tetsuo *see* **Marin, Mircea**
Imai, Katsunobu *see* **Lee, Jia et al., 2004e:68049**
Jacquemard, Florent Reachability and confluence are undecidable for flat term rewriting systems. (English summary) **2004f:68059**
— *see also* **Comon-Lundh, Hubert, 2004k:68077**
Janssens, Dirk Marcel Local action systems and DPO graph transformation. (English summary) (*see* **2004j:00032**)
Jurdziński, Tomasz (*with* Loryś, Krzysztof) Church-Rosser languages vs. UCFL. (English summary)
Kamareddine, Fairouz *see* **Wells, Joe B. et al.**
Kanovich, M. I. Bijections between partitions by two-directional rewriting techniques. (English summary) **2004m:68123**
Kari, Lila *see* **Daley, Mark et al., 2004j:68091**
Karpelevich, Fridrikh Izrailevich (*with* Malyshev, Vadim; Petrov, A. I.; Pirogov, S. A.; Rybko, A. N.) Context-free evolution of words. (English summary) **2004f:68060**
Kato, Daijiro Reflective context-free grammar. (English summary)
Kennaway, J. R. (*with* de Vries, Fer-Jan) Infinitary rewriting. (English summary) **2004h:68063**
Kesner, Delia *see* **Forest, Julien**
Khasidashvili, Zurab (*with* Glauert, John) Stable computational semantics of conflict-free rewrite systems (partial orders with duplication). (English summary)
Khomenko, V. V. *see* **Letichevskiĭ, Aleksandr Adol'fovich, 2004g:68074**
Kleijn, Jetty *see* **ter Beek, Maurice H., (2004j:00032)**
Klempien-Hinrichs, Renate *see* **Drewes, Frank et al., 2004e:68045**
Klop, Jan Willem (*with* de Vrijer, Roel) First-order term rewriting systems. (English summary) **2004i:68102**
— (*with* de Vrijer, Roel) Examples of TRSs and special rewriting formats. (English summary) **2004i:68103**
— (*with* van Oostrom, Vincent; de Vrijer, Roel) Orthogonality. (English summary) **2004i:68104**
— (*with* de Vrijer, Roel) Properties of rewriting: decidability and modularity. (English summary) **2004i:68101**
— *see also* **Bezem, Marc et al., 2004i:68099** *and* **2004i:68100**
Kolář, Dušan *see* **Meduna, Alexander, (2004i:00018)**
Korovin, Konstantin (*with* Voronkov, Andrei) Knuth-Bendix constraint solving is NP-complete. (English summary)
— (*with* Voronkov, Andrei) The decidability of the first-order theory of the Knuth-Bendix order in the case of unary signatures. (English summary) (*see* **2004j:68011**)
— (*with* Voronkov, Andrei) Orienting rewrite rules with the Knuth-Bendix order. (English summary) **2004g:68073**
Kounalis, Emmanuel *see* **Urso, Pascal**
Kreowski, Hans-Jörg A sight-seeing tour of the computational landscape of graph transformation. (English summary) (*see* **2004j:00032**)
— *see also* **Drewes, Frank et al., 2004e:68045**
Krithivasan, Kamala *see* **Arthi, K. et al., 2004f:68054**
Kudlek, Manfred (*with* Martín-Vide, Carlos; Păun, Gheorghe) Toward a formal macroset theory. (English summary) (*see* **2004k:68009**)
— (*with* Mitrana, Victor) Normal forms of grammars, finite automata, abstract families, and closure properties of multiset languages. (English summary) (*see* **2004k:68009**)
— (*with* Martín-Vide, Carlos; Mitrana, Victor) Multiple pattern interpretations. (English summary) **2004b:68080**
Kuske, Dietrich (*with* Lohrey, Markus) On the theory of one-step rewriting in trace monoids. (English summary)
Labella, Anna *see* **Bottoni, Paolo et al., (2004j:00032)**
Lee, Jia (*with* Imai, Katsunobu; Morita, Kenichi) Simulation of one-dimensional cellular automata by uniquely parallel parsable grammars. (English summary) **2004e:68049**
Lepper, Ingo Simply terminating rewrite systems with long derivations. (English summary) **2004m:68124**
Letichevskiĭ, Aleksandr Adol'fovich (*with* Khomenko, V. V.) A rewriting machine and optimization of strategies for term rewriting. (Russian. English and Ukrainian summaries) **2004g:68074**
Li, Guo-Dong (*with* Zhang, De-Fu) Dependency graphs embedding confluent graph grammars. (English and Chinese summaries)
Löding, Christof Ground tree rewriting graphs of bounded tree width. (English summary) **2004m:68125**
Lohrey, Markus *see* **Kuske, Dietrich**
Loryś, Krzysztof *see* **Jurdziński, Tomasz**
Lucas, Salvador Strong and NV-sequentiality of constructor systems. (English summary) **2004j:68092**
Lugiez, Denis *see* **Verma, Rakesh M. et al., 2004f:68068**
Madhu, Mutyam Probabilistic rewriting P systems. (English summary) **2004b:68081**
Mäkinen, Erkki *see* **Ţiplea, Ferucio Laurenţiu, 2004f:68067** *and* **2004h:68064**
Malyshev, Vadim *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Marin, Mircea (*with* Ida, Tetsuo) Lazy narrowing calculi for pattern rewrite systems. (English summary)
Marion, J. Y. Analysing the implicit complexity of programs. (English summary) **2004k:68079**
Martín-Vide, Carlos (*with* Mitrana, Victor) Grammars with bounded-life resources. (English summary) **2004f:68061**
— *see also* **Kudlek, Manfred et al., 2004b:68080**; **(2004k:68009)** *and* **Bottoni, Paolo et al., (2004j:00032)**
Mauri, Giancarlo *see* **Ferretti, Claudio et al., 2004a:68054**
Meduna, Alexander Uniform generation of languages by scattered context grammars. (English summary)
— (*with* Vurm, Petr) Multisequential grammars with homogeneous selectors. (English summary) **2004f:68062**
— Descriptional complexity of scattered rewriting and multirewriting: an overview. (English summary) **2004f:68063**
— (*with* Kolář, Dušan) Descriptional complexity of multi-parallel grammars with respect to the number of nonterminals. (English summary) (*see* **2004i:00018**)
— Coincidental extension of scattered context languages. (English summary) **2004e:68050a**
— Erratum: "Coincidental extension of scattered context languages" [Acta Inform. **39** (2003), no. 5, 307–314; MR 2004e:68050a]. **2004e:68050b**
— (*with* Švec, Martin) Forbidding ET0L grammars. (English summary) **2004g:68075**
Michaelis, Jens Transforming linear context-free rewriting systems into minimalist grammars. (English summary) (*see* **2004k:68007**)
Middeldorp, Aart *see* **Geser, Alfons et al., 2004f:68057** *and* **2004f:68058**
Mishna, Marni Attribute grammars and automatic complexity analysis. (English summary) **2004e:68051**
Mitrana, Victor *see* **Kudlek, Manfred et al., 2004b:68080**; **(2004k:68009)** *and* **Martín-Vide, Carlos, 2004f:68061**
Montanari, Ugo *see* **Baldan, Paolo et al., (2004j:00032)**
Morita, Kenichi *see* **Lee, Jia et al., 2004e:68049**
Moser, Georg (*with* Weiermann, Andreas) Relating derivation lengths with the slow-growing hierarchy directly. (English summary)
Nagaya, Takashi (*with* Toyama, Yoshihito) Decidability for left-linear growing term rewriting systems. (English summary) **2004i:68105**
Narendran, Paliath *see* **Comon-Lundh, Hubert et al., 2004j:68090**
Niemann, Gundula (*with* Waldmann, Johannes) Some regular languages that are Church-Rosser congruential. (English summary) **2004a:68055**
— (*with* Otto, Friedrich) Church-Rosser languages and their relationship to other language classes. (English summary) (*see* **2004i:00018**)
Nieuwenhuis, Robert *see* **Bofill, Miquel et al., 2004a:68051** *and* **Comon-Lundh, Hubert et al., 2004j:68090**
Novotný, Miroslav Construction of pure grammars. (English summary) **2004f:68064**
Ohlebusch, Enno *see* **Geser, Alfons et al., 2004f:68057** *and* **2004f:68058**
Ohta, Yoshikatsu *see* **Oyamaguchi, Michio, 2004f:68065**
Okawa, Satoshi *see* **Hirose, Sadaki, (2004i:00018)**
Okhotin, Alexander Conjunctive grammars and systems of language equations. (Russian. Russian summary) **2004g:68076**
— Boolean grammars. (English summary) (*see* **2004j:68010**)
— The hardest linear conjunctive language. (English summary) **2004c:68062**
— On the closure properties of linear conjunctive languages. (English summary) **2004b:68082**
— A recognition and parsing algorithm for arbitrary conjunctive grammars. (English summary) **2004a:68056**
van Oostrom, Vincent (*with* de Vrijer, Roel) Strategies. (English summary) **2004i:68106**
— *see also* **Bezem, Marc et al., 2004i:68100** *and* **Klop, Jan Willem et al., 2004i:68104**
Otto, Friedrich *see* **Niemann, Gundula, (2004i:00018)**
Oyamaguchi, Michio (*with* Ohta, Yoshikatsu) The unification problem for confluent right-ground term rewriting systems. (English summary) **2004f:68065**
Păun, Gheorghe *see* **Ferretti, Claudio et al., 2004a:68054**; **Csuhaj-Varjú, Erzsébet et al., 2004d:68065**; **Bottoni, Paolo et al., (2004j:00032)** *and* **Kudlek, Manfred et al., (2004k:68009)**
Petrov, A. I. Random context-free grammars: the supercritical case with a nonzero degeneration probability. (Russian. Russian summary) **2004f:68066**
— *see also* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Pirogov, S. A. *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
Plump, Detlef *see* **Wells, Joe B. et al.**
Pradella, Matteo *see* **Crespi-Reghizzi, Stefano, (2004j:68010)**
van Raamsdonk, Femke Higher-order rewriting. (English summary) **2004i:68107**
Ranise, Silvio *see* **Armando, Alessandro et al., 2004f:68053** *and* **2004g:68069**
Reichel, Bernd *see* **Bordihn, Henning, 2004f:68055**
Rodríguez, Leandro *see* **Vilares Ferro, Manuel et al. (2004j:68014)**
Rubio, Albert A fully syntactic AC-RPO. (English summary) **2004i:68108**
— *see also* **Bofill, Miquel et al., 2004a:68051** *and* **Borralleras, Cristina**
Rusinowitch, Michaël *see* **Armando, Alessandro et al., 2004f:68053**; **Verma, Rakesh M. et al., 2004f:68068** *and* **Comon-Lundh, Hubert et al., 2004j:68090**
Rybko, A. N. *see* **Karpelevich, Fridrikh Izrailevich et al., 2004f:68060**
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— *see also* **Salomaa, Arto, 2004d:68067**
Stiebe, Ralf *see* **Fernau, Henning, 2004a:68053**
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Toyama, Yoshihito *see* **Nagaya, Takashi, 2004i:68105**
Urso, Pascal (*with* Kounalis, Emmanuel) "Term partition" for mathematical induction. (English summary)
Vágvölgyi, Sándor Term rewriting restricted to ground terms. (English summary) **2004a:68057**
Varga, Katalin Pásztor (*with* Várterész, Magda) Comparison and usability of two rewriting systems for theorem proving. (English summary) **2004g:68078**
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Vilares, Jesús *see* **Vilares Ferro, Manuel et al.**, (**2004j:68014**)
Vilares Ferro, Manuel (*with* Darriba, Victor M.; Vilares, Jesús; Rodríguez, Leandro) Robust parsing using dynamic programming. (English summary) (*see* **2004j:68014**)
— *see also* **Alonso Pardo, Miguel A. et al.**, (**2004j:68013**)
Voronkov, Andrei *see* **Korovin, Konstantin**, **2004g:68073** *and* (**2004j:68011**)
de Vries, Fer-Jan *see* **Kennaway, J. R.**, **2004h:68063**
de Vrijer, Roel *see* **Klop, Jan Willem et al.**, **2004i:68101**; **2004i:68102**; **2004i:68103**; **2004i:68104** *and* **van Oostrom, Vincent**, **2004i:68106**
Vurm, Petr *see* **Meduna, Alexander**, **2004f:68062**
Waldmann, Johannes *see* **Niemann, Gundula**, **2004a:68055** *and* **Hofbauer, Dieter**, (**2004j:68010**)
van der Walt, Andries (*with* Ewert, Sigrid) A property of random context picture grammars. (English summary) **2004c:68063**
— *see also* **Ewert, Sigrid**, (**2004i:00018**)
Wätjen, Dietmar Remarks on simple eco-grammar systems with prescribed teams. (English summary) **2004f:68069**
— Function-dependent teams in eco-grammar systems. (English summary) **2004g:68079**
— *see also* **Ermel, Dirk**, **2004e:68046**
Weiermann, Andreas *see* **Moser, Georg**
Wells, Joe B. (*with* Plump, Detlef; Kamareddine, Fairouz) Diagrams for meaning preservation. (English summary)
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Wintner, Shuly On the semantics of unification grammars. (English summary) **2004j:68093**
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Wood, Derick *see* **Brüggemann-Klein, Anne**, (**2004j:68013**)
Yamada, Toshiyuki *see* **Aoto, Takahito**
Zandron, Claudio *see* **Ferretti, Claudio et al.**, **2004a:68054**
Zantema, Hans Termination. (English summary) **2004i:68109**
— *see also* **Geser, Alfons et al.**, **2004f:68057**; **2004f:68058** *and* **Giesl, Jürgen**
Zhang, De-Fu *see* **Li, Guo-Dong**
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Aehlig, Klaus (*with* Joachimski, Felix) On continuous normalization. (English summary) **2004m:03196**
Aguado, Joaquin (*with* Bălănescu, Tudor; Cowling, Anthony J.; Gheorghe, Marian; Holcombe, Mike; Ipate, Florentin) P systems with replicated rewriting and stream X-machines (Eilenberg machines). (English summary) **2004i:68046**
d'Alessandro, Flavio (*with* Varricchio, Stefano) On well quasi-orders on languages. (English summary) (*see* **2004j:68010**)
Alpuente, María (*with* Comini, Marco; Escobar, Santiago; Falaschi, Moreno; Lucas, Salvador) Abstract diagnosis of functional programs. (English summary) (*see* **2004k:68006**)
Anselmo, Marcella (*with* Giammarresi, Dora; Varricchio, Stefano) Finite automata and non-self-embedding grammars. (English summary) (*see* **2004j:68013**)
Apró, János (*with* Vágvölgyi, Sándor) The ground tree transducer game with identical tree automata. (English summary)
Ariola, Zena M. (*with* Blom, Stefan) Skew confluence and the lambda calculus with letrec. (English summary) **2004b:03025**
Armando, Alessandro (*with* Ballarin, Clemens) Maple's evaluation process as constraint contextual rewriting. (English summary) (*see* **2004j:68016**)
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Atanasiu, Adrian (*with* Martín-Vide, Carlos; Mitrana, Victor) On the sentence valuations in a semiring. (English summary) **2004j:68120**
Autebert, Jean-Michel (*with* Schwer, Sylviane R.) On generalized Delannoy paths. (English summary) **2004d:68068**
Avenhaus, J. (*with* Hillenbrand, Th.; Löchner, B.) On using ground joinable equations in equational theorem proving. (English summary) **2004g:03018**
Bălănescu, Tudor *see* **Aguado, Joaquin et al.**, **2004i:68046**
Ballarin, Clemens *see* **Armando, Alessandro**, (**2004j:68016**)
Béal, Marie-Pierre (*with* Crochemore, Maxime; Mignosi, Filippo; Restivo, Antonio; Sciortino, Marinella) Computing forbidden words of regular languages. (English summary) **2004j:68144**
Beaudry, M. (*with* Holzer, Markus; Niemann, Gundula; Otto, Friedrich) On the relationship between the McNaughton families of languages and the Chomsky hierarchy. (English summary) **2004a:68061**
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Berregeb, Narjes (*with* Robbana, Riadh; Tiwari, Ashish) Towards automated proofs of observational properties. (English summary) **2004k:68114**
Bethke, Inge Lambda calculus. (English summary) **2004i:03023**
Bezem, Marc (*with* Coquand, Thierry) Newman's lemma—a case study in proof automation and geometric logic. (English summary) **2004a:03023**
Blom, Stefan *see* **Ariola, Zena M.**, **2004b:03025**
Boasson, Luc *see* **Abdulla, Parosh Aziz et al.**
Bordihn, Henning (*with* Fernau, Henning; Holzer, Markus) On iterated sequential transducers. (English summary) (*see* **2004i:00018**)
Bouajjani, Ahmed Languages, rewriting systems, and verification of infinite-state systems.
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Braitenberg, Valentino *see* **Crespi-Reghizzi, Stefano**, (**2004i:00018**)
(Brauer, Wilfried) *see* **Formal and natural computing**, **2004j:00032**
Brotherston, James *see* **Vestergaard, René**, **2004f:03016**
Caucal, Didier (*with* Knapik, Teodor) A Chomsky-like hierarchy of infinite graphs. (English summary)
Ceterchi, Rodica (*with* Mutyam, Madhu; Păun, Gheorghe; Subramanian, K. G.) Array-rewriting P systems. (English summary) **2004j:68055**
Cheng, Wei[4] (*with* Wang, Jue) Grammar theory based on quantum logic. (English summary) **2004m:68130**
Comini, Marco *see* **Alpuente, María et al.**, (**2004k:68006**)
Coquand, Thierry *see* **Bezem, Marc**, **2004a:03023**
Costagliola, Gennaro (*with* Deufemia, Vincenzo; Ferrucci, Filomena; Gravino, Carmine; Salurso, Marianna) Using alternating words to describe symbolic pictures. (English summary) (*see* **2004i:00018**)
Cowling, Anthony J. *see* **Aguado, Joaquin et al.**, **2004i:68046**
Crespi-Reghizzi, Stefano (*with* Braitenberg, Valentino) Towards a brain compatible theory of syntax based on local testability. (English summary) (*see* **2004i:00018**)
Crochemore, Maxime *see* **Béal, Marie-Pierre et al.**, **2004j:68144**
Csuhaj-Varjú, Erzsébet (*with* Salomaa, Arto) Networks of Watson-Crick D0L systems. (English summary) (*see* **2004h:68006**)
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Deufemia, Vincenzo *see* **Costagliola, Gennaro et al.**, (**2004i:00018**)
Dömösi, Pál (*with* Kudlek, Manfred) An improvement of iteration lemmata for context-free languages. (English summary) (*see* **2004h:68006**)
Dovier, Agostino (*with* Piazza, Carla; Pontelli, Enrico) Disunification in *ACI*1 theories. (English summary) **2004m:03039**
Dowek, Gilles (*with* Hardin, Thérèse; Kirchner, Claude) Theorem proving modulo. (English summary) **2004h:03016**
Ďuriš, Pavol (*with* Mañuch, Ján) On the computational complexity of infinite words. (English summary) **2004c:68037**
Ehrenfeucht, Andrzej (*with* Harju, Tero; Petre, Ion; Prescott, David M.; Rozenberg, Grzegorz) Formal systems for gene assembly in ciliates. (English summary) **2004b:92016**
(Ehrig, Hartmut) *see* **Formal and natural computing**, **2004j:00032**
Engelfriet, Joost (*with* Maneth, Sebastian) Hierarchies of string languages generated by deterministic tree transducers. (English summary) **2004a:68066**
— The delta operation: from strings to trees to strings. (English summary) (*see* **2004j:00032**)
Escobar, Santiago *see* **Alpuente, María et al.**, (**2004k:68006**)
Ésik, Zoltán (*with* Leiß, Hans) Greibach normal form in algebraically complete semirings. (English summary) **2004m:68134**
Falaschi, Moreno *see* **Alpuente, María et al.**, (**2004k:68006**)
Fernau, Henning *see* **Bordihn, Henning et al.**, (**2004i:00018**)
Ferrucci, Filomena *see* **Costagliola, Gennaro et al.**, (**2004i:00018**)
Freund, Rudolf J. (*with* Oswald, Marion) GP systems with forbidding context. (English summary) **2004i:68051**
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Fujiwara, Yoshihisa *see* **Suzuki, Yasuhiro et al.**, (**2004k:68009**)
Fülöp, Zoltán (*with* Vogler, Heiko) Tree series transformations that respect copying. (English summary) **2004c:68087**
Gašo, Ján (*with* Nehéz, Martin) Stochastic cooperative distributed grammar systems and random graphs. (English summary) **2004a:68115**
Ghani, Neil (*with* Heyworth, Anne) A rewriting alternative to Reidenmeister-Schreier. (English summary)
Gheorghe, Marian *see* **Aguado, Joaquin et al.**, **2004i:68046**
Giammarresi, Dora *see* **Anselmo, Marcella et al.**, (**2004j:68013**)
Giavitto, Jean-Louis (*with* Michel, Olivier) The topological structures of membrane computing. (English summary) **2004i:68053**
— Topological collections, transformations and their application to the modeling and the simulation of dynamical systems.
Godoy, Guillem (*with* Nieuwenhuis, Robert) Superposition with completely built-in abelian groups. (English summary) **2004j:03016**
Grahne, Gösta (*with* Thomo, Alex) Algebraic rewritings for optimizing regular path queries. (English summary) **2004d:68028**
Gravino, Carmine *see* **Costagliola, Gennaro et al.**, (**2004i:00018**)
Grigor'ev, D. Yu. *see* **Grigorieva, Alla**, **2004m:68105**
Grigorieva, Alla (*with* Grigor'ev, D. Yu.) Algorithmic aspects of genetic sequences and relative Kolmogorov complexity. (English summary) **2004m:68105**
Harbusch, Karin Parsing contextual grammars with linear, regular and context-free selectors. (English summary) (*see* **2004i:00018**)
Hardin, Thérèse *see* **Dowek, Gilles et al.**, **2004h:03016**
Harju, Tero *see* **Ehrenfeucht, Andrzej et al.**, **2004b:92016**
Hashiguchi, Kosaburo (*with* Wada, Yoshito; Jimbo, Shuji) Regular binoid expressions and regular binoid languages. (English summary) **2004d:68074**
Heering, Jan (*with* Klint, Paul) Rewriting-based languages and systems. (English summary) (*see* **2004h:68002**)
Heyworth, Anne *see* **Ghani, Neil**
Hillenbrand, Th. *see* **Avenhaus, J. et al.**, **2004g:03018**
Holcombe, Mike *see* **Aguado, Joaquin et al.**, **2004i:68046**
Holzer, Markus *see* **Beaudry, M. et al.**, **2004a:68061**; **2004f:68072** *and* **Bordihn, Henning et al.**, (**2004i:00018**)
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Hoogeboom, Hendrik Jan Context-free valence grammars—revisited. (English summary) **2004a:68072**

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Houseaux, V. (*with* Jacob, Gérard; Oussous, N. E.; Petitot, M.) A complete Maple package for noncommutative rational power series. (English summary) (*see* **2004m:00010**)
Ipate, Florentin *see* **Aguado, Joaquin et al., 2004i:68046**
Jacob, Gérard *see* **Houseaux, V. et al., (2004m:00010)**
Jimbo, Shuji *see* **Hashiguchi, Kosaburo et al., 2004d:68074**
Jiménez-López, M. Dolores Linguistic grammar systems: a grammar systems approach for natural language. (English summary) (*see* **2004i:00018**)
Joachimski, Felix *see* **Aehlig, Klaus, 2004m:03196**
Kandulski, Maciej Derived tree languages of nonassociative Lambek categorical grammars with product. (English summary) **2004f:68160**
Kappes, Martin Multi-bracketed contextual rewriting grammars with obligatory rewriting. (English summary) (*see* **2004i:00018**)
(Karhumäki, Juhani) *see* **Formal and natural computing, 2004j:00032**
Kari, Lila (*with* Konstantinidis, Stavros; Losseva, Elena; Wozniak, Geoff) Sticky-free and overhang-free DNA languages. (English summary) **2004i:68118**
Katsura, Masashi (*with* Kobayashi, Yuji; Otto, Friedrich) Undecidable properties of monoids with word problem solvable in linear time. II. Cross sections and homological and homotopical finiteness conditions. (English summary) **2004c:20100**
Kirchner, Claude *see* **Nguyen, Quang Huy et al., 2004b:68141** *and* **Dowek, Gilles et al., 2004h:03016**
Kirchner, Hélène *see* **Nguyen, Quang Huy et al., 2004b:68141**
Klint, Paul *see* **Heering, Jan, (2004h:68002)**
Knapik, Teodor *see* **Caucal, Didier**
Kobayashi, Yuji *see* **Katsura, Masashi et al., 2004c:20100**
Konstantinidis, Stavros *see* **Kari, Lila et al., 2004i:68118**
Kracht, Marcus The combinatorics of cases. (English summary) **2004k:68163**
Krishna, Shankara Narayanan (*with* Lakshmanan, K.; Rama, Raghavan) On the power of P systems with contextual rules. (English summary) **2004i:68056**
Krithivasan, Kamala (*with* Madhu, Mutyam) Contextual P systems. (English summary) **2004i:68057**
— *see also* **Madhu, Mutyam, 2004c:68078**
Kudlek, Manfred (*with* Mitrana, Victor) Closure properties of multiset language families. (English summary) **2004i:68119**
— (*with* Rogozhin, Yurii) Small universal Turing and circular Post machines. (English summary) **2004f:03075**
— *see also* **Dömösi, Pál, (2004h:68006)**
Lafont, Yves Towards an algebraic theory of Boolean circuits. (English summary) **2004g:68035**
Lakshmanan, K. *see* **Krishna, Shankara Narayanan et al., 2004i:68056**
Leiß, Hans *see* **Ésik, Zoltán, 2004m:68134**
Löchner, B. *see* **Avenhaus, J. et al., 2004g:03018**
Löding, Christof Model-checking infinite systems generated by ground tree rewriting. (English summary) **2004a:68092**
Losseva, Elena *see* **Kari, Lila et al., 2004i:68118**
Lucanu, Dorel Relaxed models for rewriting logic. (English summary) **2004g:68124**
Lucas, Salvador *see* **Alpuente, María et al., (2004k:68006)**
Ly, Olivier Automatic graphs and D0L-sequences of finite graphs. (English summary) **2004g:03061**
Madhu, Mutyam (*with* Krithivasan, Kamala) A note on hybrid P systems. (English summary) **2004c:68078**
— *see also* **Krithivasan, Kamala, 2004i:68057**
Maneth, Sebastian *see* **Engelfriet, Joost, 2004a:68066**
Mañuch, Ján *see* **Ďuriš, Pavol, 2004c:68037**
Marcinkowski, Jerzy (*with* Pacholski, Leszek) Thue trees. (English summary) **2004d:03022**
Marin, Mircea A deterministic lazy conditional narrowing calculus. (English summary)
Martín-Vide, Carlos (*with* Păun, Andrei; Păun, Gheorghe; Rozenberg, Grzegorz) Membrane systems with coupled transport: universality and normal forms. (English summary) **2004i:68060**
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Meinke, K. Proof theory of higher-order equations: conservativity, normal forms and term rewriting. (English summary) **2004j:03041**
Michel, Olivier *see* **Giavitto, Jean-Louis, 2004i:68053**
(Middeldorp, Aart) *see* **RTA 2001**
Mignosi, Filippo *see* **Béal, Marie-Pierre et al., 2004j:68144**
Mitrana, Victor *see* **Martín-Vide, Carlos et al., 2004f:68083**; **2004i:00018**; **Grammars and automata for string processing, 2004i:00018**; **Kudlek, Manfred, 2004i:68119** *and* **Atanasiu, Adrian et al., 2004j:68120**
Molina-Bravo, J. M. (*with* Pimentel, Ernesto) Composing programs in a rewriting logic for declarative programming. (English summary)
Muchnik, An. A. One application of real-valued interpretation of formal power series. (English summary) **2004a:68078**
Mutyam, Madhu *see* **Ceterchi, Rodica et al., 2004j:68055**
Nehéz, Martin *see* **Gašo, Ján, 2004a:68115**
Nguyen, Quang Huy (*with* Kirchner, Claude; Kirchner, Hélène) External rewriting for skeptical proof assistants. (English summary) **2004b:68141**
Niemann, Gundula (*with* Woinowski, Jens R.) The growing context-sensitive languages are the acyclic context-sensitive languages. (English summary) **2004a:68079**
— *see also* **Beaudry, M. et al., 2004a:68061** *and* **2004f:68072**
Nieuwenhuis, Robert *see* **Godoy, Guillem, 2004j:03016**
Okhotin, Alexander Efficient automaton-based recognition for linear conjunctive languages. (English summary) **2004k:68098**
— On the number of nonterminals in linear conjunctive grammars. (English summary) **2004m:68139**
Oswald, Marion *see* **Freund, Rudolf J., 2004i:68051**
Otto, Friedrich *see* **Beaudry, M. et al., 2004a:68061**; **2004f:68072** *and* **Katsura, Masashi et al., 2004c:20100**
Oussous, N. E. *see* **Houseaux, V. et al., (2004m:00010)**
Pacholski, Leszek *see* **Marcinkowski, Jerzy, 2004d:03022**
Păun, Andrei *see* **Martín-Vide, Carlos et al., 2004i:68060**
Păun, Gheorghe *see* **Grammars and automata for string processing, 2004i:00018**; **Martín-Vide, Carlos et al., 2004i:00018**; **2004i:68060**; **Ceterchi, Rodica et al., 2004j:68055**; **Freund, Rudolf J. et al., 2004j:68056** *and* **Csuhaj-Varjú, Erzsébet et al., 2004k:68045**
Pérez Jiménez, Mario J. (*with* Sancho Caparrini, Fernando) A formalization of transition P systems. (English summary) **2004j:68059**
Petitot, M. *see* **Houseaux, V. et al., (2004m:00010)**
Petre, Ion *see* **Ehrenfeucht, Andrzej et al., 2004b:92016**
Piazza, Carla *see* **Dovier, Agostino et al., 2004m:03039**
Pimentel, Ernesto *see* **Molina-Bravo, J. M.**
Pontelli, Enrico *see* **Dovier, Agostino et al., 2004m:03039**
Prescott, David M. *see* **Ehrenfeucht, Andrzej et al., 2004b:92016**
Rama, Raghavan *see* **Krishna, Shankara Narayanan et al., 2004i:68056**
Restivo, Antonio *see* **Béal, Marie-Pierre et al., 2004j:68144**
Robbana, Riadh *see* **Berregeb, Narjes et al., 2004k:68114**
Rodríguez-Patón, Alfonso *see* **Maté, José L. et al., 2004i:68061**
Rogers, James wMSO theories as grammar formalisms. (English summary) **2004k:03077**
Rogozhin, Yurii *see* **Kudlek, Manfred, 2004f:03075**
Roşu, Grigore (*with* Viswanathan, Mahesh) Testing extended regular language membership incrementally by rewriting. (English summary)
Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej et al., 2004b:92016**; **Martín-Vide, Carlos et al., 2004i:68060** *and* **Formal and natural computing, 2004j:00032**
Rusinowitch, Michaël *see* **Armando, Alessandro et al., 2004a:68167**
Sakamoto, Hiroshi[2] A fully linear-time approximation algorithm for grammar-based compression. (English summary)
Salomaa, Arto *see* **Formal and natural computing, 2004j:00032**; **Csuhaj-Varjú, Erzsébet et al., 2004k:68045** *and* **(2004h:68006)**
Salurso, Marianna *see* **Costagliola, Gennaro et al., (2004i:00018)**
Sancho Caparrini, Fernando *see* **Pérez Jiménez, Mario J., 2004j:68059**
Schmidt-Schauß, Manfred A decision algorithm for stratified context unification. (English summary) **2004j:03018**
Schneider, Karl-Michael Tabular parsing and algebric transformations. (English summary) **2004b:68157**
Schwer, Sylviane R. *see* **Autebert, Jean-Michel, 2004d:68068**
Sciortino, Marinella *see* **Béal, Marie-Pierre et al., 2004j:68144**
Silva, Andrés *see* **Maté, José L. et al., 2004i:68061**
Staiger, Ludwig The entropy of Lukasiewicz-languages. (English summary) **2004b:68099**
Steinby, Magnus Tree automata in the theory of term rewriting. (English summary) (*see* **2004h:68006**)
Stiebe, Ralf *see* **Martín-Vide, Carlos et al., 2004f:68083**
Stratulat, Sorin *see* **Armando, Alessandro et al., 2004a:68167**
Subramanian, K. G. *see* **Ceterchi, Rodica et al., 2004j:68055**
Sullivan, Peggy Cut, paste and filter. (English summary) **2004i:68064**
Suzuki, Yasuhiro (*with* Tanaka, Hiroshi[3]) Chemical oscillation in symbolic chemical system and its behavioral pattern. (English summary) (*see* **2004i:00015**)
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Takabayashi, Junji *see* **Suzuki, Yasuhiro et al., (2004k:68009)**
Tanaka, Hiroshi[3] *see* **Suzuki, Yasuhiro et al., (2004i:00015)** *and* **(2004k:68009)**
Terese ★ Term rewriting systems. **2004h:68002**
Thomo, Alex *see* **Grahne, Gösta, 2004d:68028**
Tiwari, Ashish *see* **Berregeb, Narjes et al., 2004k:68114**
Touzet, Hélène A characterisation of multiply recursive functions with Higman's lemma. (English summary) **2004e:03076**
Vágvölgyi, Sándor Intersection of finitely generated congruences over term algebra. (English summary) **2004h:68089**
— On ground tree transformations and congruences induced by tree automata. (English summary) **2004d:68081**
— *see also* **Apró, János**
Varricchio, Stefano *see* **Anselmo, Marcella et al., (2004j:68013)** *and* **d'Alessandro, Flavio, (2004j:68010)**
Verlan, Sergey On enhanced time-varying distributed H systems. (English summary) **2004b:68100**
Vestergaard, René (*with* Brotherston, James) A formalised first-order confluence proof for the λ-calculus using one-sorted variable names. (English summary) **2004f:03016**
Viswanathan, Mahesh *see* **Roşu, Grigore**
Vogler, Heiko *see* **Fülöp, Zoltán, 2004c:68087**
van Vugt, Nikè *see* **Hoogeboom, Hendrik Jan, (2004j:00032)**
Vulanović, Relja Grammar efficiency and complexity. (English summary)
Wada, Yoshito *see* **Hashiguchi, Kosaburo et al., 2004d:68074**
Walukiewicz-Chrząszcz, Daria Termination of rewriting in the calculus of constructions. (English summary) **2004g:68021**
Wang, Jue *see* **Cheng, Wei[4], 2004m:68130**
Woinowski, Jens R. *see* **Niemann, Gundula, 2004a:68079**
Wozniak, Geoff *see* **Kari, Lila et al., 2004i:68118**
Yokomori, Takashi Polynomial-time identification of very simple grammars from positive data. (English summary) **2004d:68064**
Zhil'tsova, L. P. A lower bound for the coding cost and the asymptotically optimal coding of stochastic context-free languages. (Russian. Russian summary) **2004c:94070**

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68Q45 Formal languages and automata [see also 03D05, 68Q70, 94A45]

Ádám, András (*with* Laczkovich, M.) On cardinality questions concerning automaton mappings. (English summary) **2004g:68081**
Adamatskiĭ, A. I. Affectons: automata models of emotional interactions. (English summary)
Adorna, Henry N. 3-party message complexity is better than 2-party ones for proving lower bounds on the size of minimal nondeterministic finite automata. (English summary) **2004e:68052**
d'Alessandro, Flavio (*with* Varricchio, Stefano) On well quasi-orders on languages. (English summary) (*see* **2004j:68010**)
— On the complexity of Simon automata over the Dyck language. (English summary) **2004i:68111**
Allauzen, Cyril (*with* Mohri, Mehryar) p-subsequentiable transducers. (English summary) (*see* **2004j:68013**)
— (*with* Mohri, Mehryar) An efficient pre-determinization algorithm. (English summary) (*see* **2004j:68014**)
— (*with* Mohri, Mehryar) Finitely subsequential transducers. (English summary) **2004m:68126**
— (*with* Mohri, Mehryar) Efficient algorithms for testing the twins property. (English summary) **2004f:68071**
An, Pham Tra Supply-demand theorems for finite probabilistic automata. (English summary) **2004g:68082**
Ananichev, D. S. (*with* Volkov, Mikhail V.) Collapsing words vs. synchronizing words. (English summary) **2004a:68058**
— (*with* Cherubini, Alessandra; Volkov, Mikhail V.) Image reducing words and subgroups of free groups. (English summary) **2004j:68094**
Anselmo, Marcella (*with* Madonia, Marina) Covering problems from a formal language point of view. (English summary) (*see* **2004j:68010**)
— (*with* Giammarresi, Dora; Varricchio, Stefano) Finite automata and non-self-embedding grammars. (English summary) (*see* **2004j:68013**)
Apró, János (*with* Vágvölgyi, Sándor) The ground tree transducer game with identical tree automata. (English summary)
Asveld, Peter R. J. Algebraic aspects of families of fuzzy languages. (English summary) **2004b:68083**
Atanasiu, Adrian (*with* Martín-Vide, Carlos; Mateescu, Alexandru) On the injectivity of the Parikh matrix mapping. (English summary) **2004g:68083**
— (*with* Martín-Vide, Carlos; Mitrana, Victor) On the sentence valuation in a semiring. (English summary) **2004g:68084**
Austinat, Holger (*with* Diekert, Volker; Hertrampf, Ulrich) A structural property of regular frequency computations. (English summary) **2004a:68059**
Autebert, Jean-Michel (*with* Schwer, Sylviane R.) On generalized Delannoy paths. (English summary) **2004d:68068**
Ayari, Abdelwaheb (*with* Basin, David; Klaedtke, Felix) Decision procedures for inductive Boolean functions based on alternating automata. (English summary) **2004c:68064**
Babash, A. V. On the properties of a special composition of automata. (Russian. Russian summary) **2004k:68080**
Bai, Shuo (*with* Zhang, Hao) A role inverse algorithm. (Chinese. English and Chinese summaries) **2004a:68060**
Bala, Sebastian Intersection of regular languages and star hierarchy. (English summary)
Balan, M. Sakthi (*with* Krithivasan, Kamala; Madhu, Mutyam) Some variants in communication of parallel communicating pushdown automata. (English summary) **2004i:68110**
Basin, David *see* **Ayari, Abdelwaheb et al.**, **2004c:68064**
Basu, Sumita Rough grammar and rough language. (English summary)
Béal, Marie-Pierre (*with* Perrin, Dominique) On the enumerative sequences of regular languages on k symbols. (English summary) **2004m:68127**
— (*with* Carton, Olivier) Determinization of transducers over finite and infinite words. (English summary) **2004c:68065**
— (*with* Carton, Olivier; Prieur, Christophe[1]; Sakarovitch, Jacques) Squaring transducers: an efficient procedure for deciding functionality and sequentiality. (English and French summaries) **2004c:68066**
Beaudry, M. (*with* Holzer, Markus; Niemann, Gundula; Otto, Friedrich) On the relationship between the McNaughton families of languages and the Chomsky hierarchy. (English summary) **2004a:68061**
— (*with* Holzer, Markus; Niemann, Gundula; Otto, Friedrich) McNaughton families of languages. (English summary) **2004f:68072**
ter Beek, Maurice H. (*with* Csuhaj-Varjú, Erzsébet; Mitrana, Victor) Teams of pushdown automata. (English summary) **2004k:68081**
Bertoni, Alberto (*with* Choffrut, Christian; Goldwurm, Massimiliano; Lonati, Violetta) On the number of occurrences of a symbol in words of regular languages. (English summary) **2004e:68053**
Blondel, Vincent D. (*with* Canterini, Vincent) Undecidable problems for probabilistic automata of fixed dimension. (English summary) **2004a:68062**
Bloom, Stephen L. (*with* Ésik, Zoltán) Deciding whether the frontier of a regular tree is scattered. **2004h:68065**
Bojańczyk, Mikołaj Two-way alternating automata and finite models. (English summary)
— The finite graph problem for two-way alternating automata. (English summary) **2004c:68067**
Bonizzoni, Paola (*with* De Felice, Clelia; Mauri, Giancarlo; Zizza, Rosalba) Regular languages generated by reflexive finite splicing systems. (English summary) (*see* **2004j:68010**)
Borchardt, Björn The Myhill-Nerode theorem for recognizable tree series. (English summary) (*see* **2004j:68010**)
Bordihn, Henning (*with* Fernau, Henning; Holzer, Markus) On iterated sequential transducers. (English summary) (*see* **2004i:00018**)
— Context-freeness of the power of context-free languages is undecidable. (English summary) **2004m:68128**
Bordim, Jacir L. (*with* Ibarra, Oscar H.; Ito, Yasuaki; Nakano, Koji) Instance-specific solutions for accelerating the CKY parsing of large context-free grammars. (English summary)
Bouillard, Anne (*with* Mairesse, Jean) Generating series of the trace group. (English summary) (*see* **2004j:68010**)
Bouyer, Patricia (*with* Petit, Antoine) A Kleene/Büchi-like theorem for clock languages. (English summary) **2004d:68069**
— Untameable timed automata! (extended abstract). (English summary)
Bozapalidis, Symeon Extending stochastic and quantum functions. (English summary) **2004c:68068**
Brlek, Srečko (*with* Reutenauer, Christophe) On a valuation of rational subsets of $\mathbf{Z}^k$. Dédié à Jean Berstel. (English summary) **2004d:68070**
Brüggemann-Klein, Anne (*with* Wood, Derick) The regularity of two-way nondeterministic tree automata languages. (English summary) **2004b:68084**
Buchholz, Peter (*with* Kemper, Peter) Weak bisimulation for (max/+) automata and related models. (English summary) **2004g:68085**
Cabral Morais, Manuel *see* **Mateus, Paulo et al.**, **2004i:68122**
Cachat, Thierry The power of one-letter rational languages. (English summary) **2004b:68085**
Cai, Yanying *see* **Zhang, Rong Hua**, **2004k:68099**
Calude, Cristian S. (*with* Calude, Elena) Automata: from uncertainty to quantum. (English summary) **2004a:68063**
Calude, Elena *see* **Calude, Cristian S.**, **2004a:68063**
Câmpeanu, Cezar (*with* Salomaa, Kai; Vágvölgyi, Sándor) Shuffle quotient and decompositions. (English summary) **2004a:68064**
— (*with* Păun, Andrei) The number of similarity relations and the number of minimal deterministic finite cover automata. (English summary) (*see* **2004j:68013**)
— (*with* Păun, Andrei) Counting the number of minimal DFCA obtained by merging states. (English summary) **2004m:68129**
— (*with* Salomaa, Kai; Yu, Sheng) A formal study of practical regular expressions. (English summary) **2004k:68082**
Canterini, Vincent *see* **Blondel, Vincent D.**, **2004a:68062**
Carme, Julien (*with* Gilleron, Rémi; Lemay, Aurélien; Terlutte, Alain; Tommasi, Marc) Residual finite type automata. (English summary) (*see* **2004j:68010**)
Caron, Pascal (*with* Flouret, Marianne) From Glushkov WFAs to rational expressions. (English summary) (*see* **2004j:68010**)
— (*with* Flouret, Marianne) Star normal form, rational expressions, and Glushkov WFAs properties. (English summary) (*see* **2004j:68013**)
— (*with* Flouret, Marianne) Glushkov construction for series: the non commutative case. (English summary) **2004d:68071**
Carton, Olivier (*with* Michel, Max) Unambiguous Büchi automata. (English summary) **2004g:68086**
— *see also* **Béal, Marie-Pierre et al.**, **2004c:68065** *and* **2004c:68066**
Ceccherini-Silberstein, Tullio (*with* Machi, Antonio; Scarabotti, Fabio) On the entropy of regular languages. (English summary) **2004k:68083**
Champarnaud, Jean-Marc (*with* Ziadi, Djelloul) From Mirkin's prebases to Antimirov's word partial derivatives. (English summary)
— (*with* Duchamp, Gérard) Brzozowski's derivatives extended to multiplicities. (English summary) (*see* **2004j:68012**)
— (*with* Coulon, Fabien) NFA reduction algorithms by means of regular inequalities. (English summary) (*see* **2004j:68010**)
— (*with* Laugerotte, Éric; Ouardi, Faissal; Ziadi, Djelloul) From regular weighted expressions to finite automata. (English summary) (*see* **2004j:68014**)
Chebotarev, Anatoliĭ Nikolaevich Synthesis of an automaton specified by a set of clauses. (Russian. English, Russian and Ukrainian summaries)
Chen, Yong *see* **Xu, Jianliang[1] et al.**
Cheng, Wei[4] (*with* Wang, Jue) Grammar theory based on quantum logic. (English summary) **2004m:68130**
— (*with* Mo, Zhi Wen) Minimization algorithm of fuzzy finite automata. (English summary) **2004k:68084**
Cherubini, Alessandra *see* **Ananichev, D. S. et al.**, **2004j:68094**
Chockler, Hana (*with* Kupferman, Orna) ω-regular languages are testable with a constant number of queries. (English summary) (*see* **2004j:68019**)
Choffrut, Christian *see* **Bertoni, Alberto et al.**, **2004e:68053**
Cienciala, Luděk (*with* Ciencialová, Lucie) Membrane automata with priorities. (English summary)
Ciencialová, Lucie *see* **Cienciala, Luděk**
Comon-Lundh, Hubert (*with* Cortier, Véronique; Mitchell, John C.) Tree automata with one memory, set constraints, and ping-pong protocols. (English summary)
Condon, Anne E. Bounded error probabilistic finite state automata. **2004c:68069**
Cortier, Véronique *see* **Comon-Lundh, Hubert et al.**
Costagliola, Gennaro (*with* Deufemia, Vincenzo; Ferrucci, Filomena; Gravino, Carmine; Salurso, Marianna) Using alternating words to describe symbolic pictures. (English summary) (*see* **2004i:00018**)
Coulon, Fabien *see* **Champarnaud, Jean-Marc**, (**2004j:68010**)
Csuhaj-Varjú, Erzsébet (*with* Martín-Vide, Carlos; Mitrana, Victor) Multiset automata.

(English summary) (*see* **2004k:68009**)
— (*with* Mitrana, Victor; Vaszil, György) Distributed pushdown automata systems: computational power. (English summary) (*see* **2004j:68010**)
— *see also* **ter Beek, Maurice H. et al.**, **2004k:68081**
Culik, Karel, II (*with* Karhumäki, Juhani; Kari, Jarkko) A note on synchronized automata and road coloring problem. (English summary) **2004b:68086**
Czyzowicz, Jurek (*with* Fraczak, Wojciech; Pelc, Andrzej) Transducers with set output. (English summary)
— (*with* Fraczak, Wojciech; Pelc, Andrzej; Rytter, Wojciech) Linear-time prime decomposition of regular prefix codes. (English summary) **2004k:68085**
Dąbrowski, Robert (*with* Plandowski, Wojciech) On word equations in one variable. (English summary)
Daciuk, Jan Comparison of construction algorithms for minimal, acyclic, deterministic, finite-state automata from sets of strings. (English summary) (*see* **2004j:68013**)
— (*with* van Noord, Gertjan) Finite automata for compact representation of tuple dictionaries. (English summary) **2004m:68131**
Dai, Jack Jie (*with* Lathrop, James I.; Lutz, Jack H.; Mayordomo, Elvira) Finite-state dimension. (English summary) **2004k:68086**
Daley, Mark (*with* Eramian, Mark; McQuillan, Ian) Bag automata and stochastic retrieval of biomolecules in solution. (English summary) (*see* **2004j:68014**)
— (*with* Ibarra, Oscar H.; Kari, Lila; McQuillan, Ian; Nakano, Koji) The ld and dlad bio-operations on formal languages. (English summary) **2004j:68095**
Dang, Zhe *see* **Ibarra, Oscar H.**, **2004c:68075** *and* **San Pietro, Pierluigi**
Dassen, Ray (*with* Hoogeboom, Hendrik Jan; van Vugt, Nikè) A characterization of non-iterated splicing with regular rules. (English summary) **2004c:68070**
Dassow, Jürgen Parikh mapping and iteration. (English summary) (*see* **2004k:68009**)
De Felice, Clelia *see* **Bonizzoni, Paola et al.**, (**2004j:68010**)
De Nicola, Rocco (*with* Labella, Anna) Nondeterministic regular expressions as solutions of equational systems. (English summary) **2004b:68087**
Denis, François (*with* Lemay, Aurélien; Terlutte, Alain) Residual finite state automata. (English summary) **2004g:68087**
Desai, M. P. (*with* Narayanan, Harihar; Patkar, Sachin B.) The realization of finite state machines by decomposition and the principal lattice of partitions of a submodular function. (English summary) **2004i:68112**
Deufemia, Vincenzo *see* **Costagliola, Gennaro et al.**, (**2004i:00018**)
Diekert, Volker (*with* Gastin, Paul) Safety and liveness properties for real traces and a direct translation from LTL to monoids. (English summary) (*see* **2004j:00032**)
— *see also* **Austinat, Holger et al.**, **2004a:68059**
Dima, Cătălin Distributed real-time automata. (English summary) (*see* **2004i:00018**)
Dolinka, Igor The multiplicative fragment of the Yanov equational theory. (English summary) **2004c:68071**
Do Long Van On a class of hypercodes. (English summary) **2004m:68132**
Domaratzki, Michael (*with* Shallit, Jeffrey; Yu, Sheng) Minimal covers of formal languages. (English summary) **2004a:68065**
— State complexity of proportional removals. (English summary) **2004f:68073**
— (*with* Kisman, Derek; Shallit, Jeffrey) On the number of distinct languages accepted by finite automata with n states. (English summary) **2004i:68113**
— On enumeration of Müller automata. (English summary) (*see* **2004j:68010**)
— On iterated scattered deletion.
— (*with* Okhotin, Alexander) Representing recursively enumerable languages by iterated deletion. (English summary) **2004m:68133**
— *see also* **Okhotin, Alexander et al.**, **2004g:68096**
Dömösi, Pál (*with* Ito, Masami[1]) A parsing problem for context-sensitive languages—a correction to: "Characterization of languages by lengths of their subwords" [in *Semigroups (Kunming, 1995)*, 117–129, Springer, Singapore, 1998]. (*see* **2004h:68006**)
— (*with* Kudlek, Manfred) An improvement of iteration lemmata for context-free languages. (English summary) (*see* **2004h:68006**)
Dress, Andreas W. M. (*with* von Haeseler, Fritz) A semigroup approach to automaticity. (English summary) **2004f:68074**
Drewes, Frank (*with* Ewert, Sigrid; Klempien-Hinrichs, Renate; Kreowski, Hans-Jörg) Computing raster images from grid picture grammars. (English summary) **2004i:68114**
Droste, Manfred (*with* Zhang, Guo-Qiang) Rational transformations of formal power series. (English summary)
— (*with* Zhang, Guo-Qiang) On transformations of formal power series. (English summary) **2004d:68072**
Duchamp, Gérard *see* **Champarnaud, Jean-Marc**, (**2004j:68012**)
Durand-Lose, Jérôme A Kleene theorem for splitable signals. (English summary) **2004j:68096**
Engelfriet, Joost (*with* Maneth, Sebastian) Hierarchies of string languages generated by deterministic tree transducers. (English summary) **2004a:68066**
— The delta operation: from strings to trees to strings. (English summary) (*see* **2004j:00032**)
— (*with* Maneth, Sebastian) Two-way finite state transducers with nested pebbles. (English summary)
— (*with* Maneth, Sebastian) Output string languages of compositions of deterministic macro tree transducers. (English summary) **2004b:68088**
— (*with* Maneth, Sebastian) A comparison of pebble tree transducers with macro tree transducers. (English summary) **2004h:68066**
Eramian, Mark *see* **Daley, Mark et al.**, (**2004j:68014**)
Ésik, Zoltán (*with* Leiß, Hans) Greibach normal form in algebraically complete semirings. (English summary) **2004m:68134**
— The equational theory of fixed points with applications to generalized language theory. (English summary) **2004a:68067**
— (*with* Kuich, Werner) Formal tree series. (English summary) **2004g:68088**
— *see also* **Bloom, Stephen L.**, **2004h:68065**
Etessami, Kousha A hierarchy of polynomial-time computable simulations for automata. (English summary) (*see* **2004j:68004**)
Ewert, Sigrid *see* **Drewes, Frank et al.**, **2004i:68114**
de Falco, Diego (*with* Goldwurm, Massimiliano; Lonati, Violetta) Frequency of symbol occurrences in simple non-primitive stochastic models. (English summary) (*see* **2004j:68010**)
Fan, Chen-Ming (*with* Shyr, Huei-Jan) Languages related to the properties of disjunctivity and code. (English summary) **2004k:68087**
Farwer, Berndt ω-automata.
Fernau, Henning *see* **Bordihn, Henning et al.**, (**2004i:00018**)
Ferrucci, Filomena *see* **Costagliola, Gennaro et al.**, (**2004i:00018**)
Finkel, Olivier On omega context free languages which are Borel sets of infinite rank. (English summary) **2004j:68097**
— Ambiguity in omega context free languages. (English summary) **2004f:68075**
Flouret, Marianne *see* **Caron, Pascal**, **2004d:68071**; (**2004j:68013**) *and* (**2004j:68010**)
Fortiş, Florin On type -1 and type -0 languages. (English summary) **2004c:68072**
Fortiş, Teodor Florin (FBICC(FIN)) in the Chomsky hierarchy. (English summary)
Fraczak, Wojciech *see* **Czyzowicz, Jurek et al.**, **2004k:68085**
Francez, Nissim (*with* Kaminski, Michael) An algebraic characterization of deterministic regular languages over infinite alphabets. (English summary) **2004k:68088**
Frisco, Pierluigi (*with* Zandron, Claudio) On variants of communicating distributed H systems. (English summary) **2004f:68076**
Fritz, Carsten (*with* Wilke, Thomas) State space reductions for alternating Büchi automata: quotienting by simulation equivalences. (English summary) **2004k:68089**
Frougny, Christiane On-line digit set conversion in real base. (English summary) **2004a:68068**
Fülöp, Zoltán (*with* Gazdag, Zsolt) Shape preserving top-down tree transducers. (English summary) **2004e:68054**
— (*with* Kühnemann, Armin; Vogler, Heiko) A bottom-up characterization of deterministic top-down tree transducers with regular look-ahead.
Gallier, Jean H. (*with* La Torre, Salvatore; Mukhopadhyay, Supratik) Deterministic finite automata with recursive calls and DPDAs. (English summary) **2004g:68089**
García Pérez, Pedro Luis (*with* Ruiz Ochando, José) Threshold locally testable languages in strict sense. (English summary) (*see* **2004i:00018**)
— (*with* Ruiz Ochando, José; Vazquez de Parga, Manuel) Bilateral locally testable languages. (English summary) **2004c:68073**
Gastin, Paul *see* **Diekert, Volker**, (**2004j:00032**)
Gazdag, Zsolt *see* **Fülöp, Zoltán**, **2004e:68054**
Gécseg, Ferenc Comments on complete sets of tree automata. (English summary) (*see* **2004j:68010**)
Geffert, Viliam Translation of binary regular expressions into nondeterministic ε-free automata with $\mathcal{O}(n \log n)$ transitions. (English summary) **2004d:68073**
— (*with* Mereghetti, Carlo; Pighizzini, Giovanni) Converting two-way nondeterministic unary automata into simpler automata. (English summary) **2004a:68069**
Giammarresi, Dora Computing languages by (bounded) local sets. (English summary) (*see* **2004j:68010**)
— (*with* Ponty, Jean-Luc; Wood, Derick; Ziadi, Djelloul) A characterization of Thompson digraphs. (English summary) **2004k:68090**
— *see also* **Anselmo, Marcella et al.**, (**2004j:68013**)
Gilleron, Rémi *see* **Carme, Julien et al.**, (**2004j:68010**)
Glaßer, Christian (*with* Schmitz, Heinz) Level 5/2 of the Straubing-Thérien hierarchy for two-letter alphabets. (English summary) **2004a:68070**
Goldwurm, Massimiliano *see* **Bertoni, Alberto et al.**, **2004e:68053** *and* **de Falco, Diego et al.**, (**2004j:68010**)
Golovkins, Marats (*with* Kravtsev, Maksim) Probabilistic reversible automata and quantum automata. (English summary)
Gómez, Antonio Cano (*with* Pin, Jean-Éric) On a conjecture of Schnoebelen. (English summary) (*see* **2004j:68010**)
— (*with* Pin, Jean-Éric) Shuffle on positive varieties of languages. (English summary) **2004k:68091**
Gramatovici, Radu On the recognizing power of non-expansive go-through automata. (English summary)
Gravino, Carmine *see* **Costagliola, Gennaro et al.**, (**2004i:00018**)
Gruska, Jozef (*with* Vollmar, Roland) Quantum finite automata. (English summary) (*see* **2004h:68006**)
Guingne, Franck (*with* Kempe, André; Nicart, Florent) Running time complexity of printing an acyclic automaton. (English summary) (*see* **2004j:68014**)
von Haeseler, Fritz *see* **Dress, Andreas W. M.**, **2004f:68074**
Harju, Tero (*with* Ibarra, Oscar H.; Karhumäki, Juhani; Salomaa, Arto) Decision questions concerning semilinearity, morphisms, and commutation of languages. (English summary)
Harkema, Henk A characterization of minimalist languages. (English summary) (*see* **2004k:68007**)
Hashiguchi, Kosaburo (*with* Kunai, Takahiro; Jimbo, Shuji) Finite codes over free binoids. (English summary) **2004f:68077**
— (*with* Wada, Yoshito; Jimbo, Shuji) Regular binoid expressions and regular binoid languages. (English summary) **2004d:68074**
— (*with* Sakakibara, Naoto; Jimbo, Shuji) Equivalence of regular binoid expressions and regular expressions denoting binoid languages over free binoids. (English summary) **2004k:68092**
Héam, Pierre-Cyrille On shuffle ideals. (English summary) **2004a:68071**
— Some complexity results for polynomial rational expressions. (English summary) **2004b:68089**
Hertrampf, Ulrich *see* **Austinat, Holger et al.**, **2004a:68059**
Hierons, R. M. Using a minimal number of resets when testing from a finite state machine.
Hines, P. M. A categorical framework for finite state machines. (English summary) **2004c:68074**
Hirvensalo, Mika (*with* Seibert, Sebastian) Lower bounds for Las Vegas automata by information theory. (English summary) **2004f:68078**
Holcombe, Mike *see* **Ipate, Florentin**, (**2004i:00018**)
Holub, Štěpán Binary equality sets are generated by two words. (English summary) **2004b:68090**
Holzer, Markus (*with* Kutrib, Martin) Flip-pushdown automata: nondeterminism is better than determinism. (English summary) (*see* **2004j:68010**)
— (*with* Kutrib, Martin) State complexity of basic operations on nondeterministic finite automata. (English summary) (*see* **2004j:68013**)

— (*with* Kutrib, Martin) Nondeterministic descriptional complexity of regular languages. (English summary) **2004k:68093**

— (*with* McKenzie, Pierre) Alternating and empty alternating auxiliary stack automata. (English summary) **2004e:68055**

— *see also* **Beaudry, M. et al.**, **2004a:68061**; **2004f:68072** *and* **Bordihn, Henning et al.**, (**2004i:00018**)

Honkala, Juha A new class of algebraic series having a decidable equivalence problem. (English summary) **2004f:68079**

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— (*with* Ruohonen, Keijo) On the images of $\mathbb{N}$-rational sequences counting multiplicities. (English summary) **2004f:68080**

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Imreh, Csanád *see* **Imreh, Balázs et al.**, **2004c:68076**

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— Recent results on formal languages. (English summary) (*see* **2004d:00020**)

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Jantzen, Matthias (*with* Kurganskiĭ, A. N.) Refining the hierarchy of blind multicounter languages and twist-closed trios. (English summary) **2004f:68081**

Jimbo, Shuji *see* **Hashiguchi, Kosaburo et al.**, **2004d:68074**; **2004f:68077** *and* **2004k:68092**

Jirásková, Galina Note on minimal automata and uniform communication protocols. (English summary) **2004m:68136**

Johnstone, Adrian *see* **Scott, Elizabeth A.**, **2004m:68140**

Joshi, Aravind K. A note on the strong and weak generative powers of formal systems. (English summary) **2004b:68093**

Kaminski, Michael *see* **Francez, Nissim**, **2004k:68088**

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Kászonyi, L. A pumping lemma for DLI-languages. (English summary) **2004g:68091**

Kempe, André Extraction of ε-cycles from finite-state transducers. (English summary) (*see* **2004j:68012**)

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Kemper, Peter *see* **Buchholz, Peter**, **2004g:68085**

Khachatryan, V. E. A complete system of equivalent transformations for multitape automata. (Russian. Russian summary) **2004f:68082**

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Kilibarda, Goran (*with* Kudryavtsev, V. B.; Uščumlić, Š. M.) Independent systems of automata in labyrinths. (Russian. Russian summary) **2004e:68057**

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— (*with* Marcinkowski, Jerzy) Two techniques in the area of the star problem in trace monoids. (English summary) **2004h:68068**

Kisman, Derek *see* **Domaratzki, Michael et al.**, **2004i:68113**

Klaedtke, Felix *see* **Ayari, Abdelwaheb et al.**, **2004c:68064**

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Klempien-Hinrichs, Renate *see* **Drewes, Frank et al.**, **2004i:68114**

Klimann, Ines (*with* Lombardy, Sylvain; Mairesse, Jean; Prieur, Christophe[1]) Deciding the sequentiality of a finitely ambiguous max-plus automaton. (English summary) (*see* **2004j:68010**)

Kobayashi, Hirotada *see* **Yamasaki, Tomohiro et al.**

Kobayashi, Nami Some properties of recognizable $\mathscr{L}$-subsets. (English summary) **2004b:68094**

Kolář, Dušan *see* **Meduna, Alexander**, **2004g:68094**

Konstantinidis, Stavros *see* **Kari, Lila et al.**, **2004i:68118**

Körner, Heiko A time and space efficient algorithm for minimizing cover automata for finite languages. (English summary) **2004k:68094**

Kozen, Dexter Automata on guarded strings and applications. (English summary) **2004k:68095**

Kravtsev, Maksim *see* **Golovkins, Marats**

Kreowski, Hans-Jörg *see* **Drewes, Frank et al.**, **2004i:68114**

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Krithivasan, Kamala (*with* Varma, Sandeep V.) On minimising P finite state automata.

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Kudlek, Manfred (*with* Mitrana, Victor) Closure properties of multiset language families. (English summary) **2004i:68119**

— On universal finite automata and a-transducers. (English summary) **2004m:68137**

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Kudryavtsev, V. B. *see* **Kilibarda, Goran et al.**, **2004e:68057** *and* **2004h:68067**

Kühnemann, Armin *see* **Fülöp, Zoltán et al.**

Kuich, Werner *see* **Ésik, Zoltán**, **2004g:68088**

Kunai, Takahiro *see* **Hashiguchi, Kosaburo et al.**, **2004f:68077**

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— Undecidability of the trace coding problem and some decidable cases. (English summary) **2004h:68070**

Kunimoch, Yoshiyuki *see* **Ito, Masami[1]**, **2004a:68073**

Kupferman, Orna (*with* Zuhovitzky, Sharon) An improved algorithm for the membership problem for extended regular expressions. (English summary)

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Kurganskiĭ, A. N. *see* **Jantzen, Matthias**, **2004f:68081**

Kurokawa, Haruhisa *see* **Tomita, Kohji et al.**, **2004g:68099**

Kuske, Dietrich (*with* Morin, Rémi) Pomsets for local trace languages. (English summary) **2004e:68058**

— (*with* Meinecke, Ingmar) Branching automata with costs—a way of reflecting parallelism in costs. (English summary) (*see* **2004j:68014**)

Kutrib, Martin *see* **Holzer, Markus**, **2004k:68093**; (**2004j:68013**); (**2004j:68010**) *and* **Klein, Andreas[1]**

Labella, Anna *see* **De Nicola, Rocco**, **2004b:68087**

Laczkovich, M. *see* **Ádám, András**, **2004g:68081**

Lange, Steffen (*with* Nessel, Jochen) Decision lists over regular patterns. (English summary) **2004b:68095**

Lanotte, Ruggero (*with* Maggiolo-Schettini, Andrea; Tini, Simone) ε-transitions in concurrent timed automata. **2004j:68099**

Lathrop, James I. *see* **Dai, Jack Jie et al.**, **2004k:68086**

La Torre, Salvatore *see* **Gallier, Jean H. et al.**, **2004g:68089**

Laugerotte, Éric *see* **Champarnaud, Jean-Marc et al.**, (**2004j:68014**)

Leiß, Hans *see* **Ésik, Zoltán**, **2004m:68134**

Lemay, Aurélien *see* **Denis, François et al.**, **2004g:68087** *and* **Carme, Julien et al.**, (**2004j:68010**)

Lenzi, Giacomo *see* **Janin, David**, **2004j:68098**

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Lifshits, Yuri Mikhailovich A lower bound on the size of ε-free NFA corresponding to a regular expression. (English summary) **2004a:68074**

Lischke, Gerhard The root of a language and its complexity. (English summary) **2004a:68075**

Lisovik, L. P. (*with* Karnaukh, T. A.) On a class of functions computable by index grammars. (Russian. English and Ukrainian summaries) **2004m:68138**

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Litow, B. Inequality of finite behaviors of rational weight finite automata is in R. (English summary) **2004e:68059**

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Lombardy, Sylvain On the construction of reversible automata for reversible languages. (English summary)

— (*with* Sakarovitch, Jacques) Star height of reversible languages and universal automata. (English summary) **2004a:68076**

— (*with* Sakarovitch, Jacques) On the star height of rational languages: a new presentation for two old results. (English summary) **2004i:68121**

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Lonati, Violetta *see* **Bertoni, Alberto et al.**, **2004e:68053** *and* **de Falco, Diego et al.**, (**2004j:68010**)

Losseva, Elena *see* **Kari, Lila et al.**, **2004i:68118**

Luca, Cristina An algorithm for simulation of a four-way finite automaton. (English and Romanian summaries)
Lutz, Jack H. *see* **Dai, Jack Jie et al., 2004k:68086**
Machi, Antonio *see* **Ceccherini-Silberstein, Tullio et al., 2004k:68083**
Madhu, Mutyam (*with* Krithivasan, Kamala) A note on hybrid P systems. (English summary) **2004c:68078**
— *see also* **Balan, M. Sakthi et al., 2004i:68110**
Madonia, Marina *see* **Anselmo, Marcella**, (**2004j:68010**)
Maes, Arnaud *see* **Rigo, Michel, 2004a:68081**
Maggiolo-Schettini, Andrea *see* **Lanotte, Ruggero et al., 2004j:68099**
Mairesse, Jean *see* **Bouillard, Anne**, (**2004j:68010**) *and* **Klimann, Ines et al.**, (**2004j:68010**)
Malcher, Andreas Minimizing finite automata is computationally hard. (English summary) (*see* **2004j:68010**)
Maneth, Sebastian The complexity of compositions of deterministic tree transducers. (English summary) **2004k:68096**
— *see also* **Engelfriet, Joost, 2004a:68066**; **2004b:68088** *and* **2004h:68066**
Marchenkov, S. S. Boolean reducibility. (Russian. Russian summary) **2004g:68093**
Marcinkowski, Jerzy *see* **Kirsten, Daniel, 2004h:68068**
Margolis, Stuart W. (*with* Pin, Jean-Éric; Volkov, Mikhail V.) Words guaranteeing minimal image. (English summary) **2004j:68100**
Martín-Vide, Carlos (*with* Rodríguez-Patón, Alfonso) Restricted concatenation inspired by DNA strand assembly. (English summary) (*see* **2004i:00018**)
— (*with* Mitrana, Victor; Stiebe, Ralf) Weighted grammars and automata with threshold interpretation. (English summary) **2004f:68083**
— *see also* **Atanasiu, Adrian et al., 2004g:68083**; **2004g:68084** *and* **Csuhaj-Varjú, Erzsébet et al.**, (**2004k:68009**)
Masson, Benoît (*with* Schnoebelen, Ph.) On verifying fair lossy channel systems. (English summary)
Mateescu, Alexandru (*with* Salomaa, Arto) Nondeterministic trajectories. (English summary) (*see* **2004j:00032**)
— (*with* Salomaa, Arto; Yu, Sheng) Subword histories and Parikh matrices. (English summary) **2004j:68101**
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Matsuura, Akihiro *see* **Iwama, Kazuo et al., 2004c:68077**
Mauri, Giancarlo *see* **Bonizzoni, Paola et al.**, (**2004j:68010**)
Mayordomo, Elvira *see* **Dai, Jack Jie et al., 2004k:68086**
McKenzie, Pierre *see* **Holzer, Markus, 2004e:68055**
McQuillan, Ian *see* **Daley, Mark et al., 2004j:68095** *and* (**2004j:68014**)
Meduna, Alexander (*with* Kolář, Dušan) One-turn regulated pushdown automata and their reduction. (English summary) **2004g:68094**
— Simultaneously one-turn two-pushdown automata. (English summary) **2004d:68077**
Meinecke, Ingmar *see* **Kuske, Dietrich**, (**2004j:68014**)
Melichar, Bořivoj (*with* Skryja, Jan) On the size of deterministic finite automata. (English summary) (*see* **2004j:68012**)
Meng, Qingchun *see* **Xu, Jianliang[1] et al.**
Mereghetti, Carlo (*with* Palano, Beatrice) On the size of one-way quantum finite automata with periodic behaviors. (English summary) **2004a:68077**
— (*with* Pighizzini, Giovanni) The world of unary languages: a quick tour. (English summary) (*see* **2004i:00018**)
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Merekin, Yu. V. On the generation of words using the composition operation. (Russian. Russian summary) **2004h:68071**
Michel, Max *see* **Carton, Olivier, 2004g:68086**
Mitchell, John C. *see* **Comon-Lundh, Hubert et al.**
Mitrana, Victor *see* **Martín-Vide, Carlos et al., 2004f:68083**; **Atanasiu, Adrian et al., 2004g:68084**; **Kudlek, Manfred, 2004i:68119**; **ter Beek, Maurice H. et al., 2004k:68081**; **Csuhaj-Varjú, Erzsébet et al.**, (**2004k:68009**) *and* (**2004j:68010**)
Miyamoto, Satoru (*with* Inenaga, Shunsuke; Takeda, Masayuki; Shinohara, Ayumi) Ternary directed acyclic word graphs. (English summary) (*see* **2004j:68014**)
Miyazaki, Takashi *see* **Yamamoto, Hiroaki**
Mo, Zhi Wen *see* **Cheng, Wei[4], 2004k:68084**
Mohri, Mehryar Edit-distance of weighted automata. (English summary) (*see* **2004j:68013**)
— Edit-distance of weighted automata: general definitions and algorithms. (English summary) **2004k:68097**
— *see also* **Allauzen, Cyril, 2004f:68071**; **2004m:68126**; (**2004j:68013**) *and* (**2004j:68014**)
Morin, Rémi *see* **Kuske, Dietrich, 2004e:68058**
Moriya, Etsuro (*with* Tada, Takemaru) On the space complexity of turn bounded pushdown automata. (English summary) **2004b:68096**
Muchnik, An. A. One application of real-valued interpretation of formal power series. (English summary) **2004a:68078**
Mukhopadhyay, Supratik *see* **Gallier, Jean H. et al., 2004g:68089**
Murata, Satoshi *see* **Tomita, Kohji et al., 2004g:68099**
Nakano, Koji *see* **Daley, Mark et al., 2004j:68095** *and* **Bordim, Jacir L. et al.**
Narayanan, Harihar *see* **Desai, M. P. et al., 2004i:68112**
Navarro, Gonzalo Regular expression searching on compressed text. (English summary) **2004i:68123**
Nessel, Jochen *see* **Lange, Steffen, 2004b:68095**
Nicart, Florent *see* **Guingne, Franck et al.**, (**2004j:68014**)
Niemann, Gundula (*with* Woinowski, Jens R.) The growing context-sensitive languages are the acyclic context-sensitive languages. (English summary) **2004a:68079**
— (*with* Otto, Friedrich) Further results on restarting automata. (English summary) **2004j:68102**
— *see also* **Beaudry, M. et al., 2004a:68061** *and* **2004f:68072**
Niwiński, Damian (*with* Walukiewicz, Igor) A gap property of deterministic tree languages. (English summary) **2004g:68095**
van Noord, Gertjan *see* **Daciuk, Jan, 2004m:68131**
Nunes, C. *see* **Mateus, Paulo et al., 2004i:68122**
Nurutdinov, Sh. R. *see* **Zakharov, V. M. et al.**, (**2004j:00010**)
Ohsaki, Hitoshi (*with* Seki, Hiroyuki; Takai, Toshinori) Recognizing Boolean closed A-tree languages with membership conditional rewriting mechanism. (English summary)
Okhotin, Alexander (*with* Salomaa, Kai; Domaratzki, Michael) One-visit caterpillar tree automata. (English summary) **2004g:68096**
— Efficient automaton-based recognition for linear conjunctive languages. (English summary) **2004k:68098**
— On the number of nonterminals in linear conjunctive grammars. (English summary) **2004m:68139**
— *see also* **Domaratzki, Michael, 2004m:68133**
Onodera, Kaoru A note on homomorphic representation of recursively enumerable languages with insertion grammars. (English summary) **2004d:68078**
van Oostrom, Vincent (*with* de Vrijer, Roel) Equivalence of reductions. (English summary) **2004i:68124**
Otto, Friedrich Restarting automata and their relations to the Chomsky hierarchy. (English summary) (*see* **2004j:68010**)
— *see also* **Beaudry, M. et al., 2004a:68061**; **2004f:68072** *and* **Niemann, Gundula, 2004j:68102**
Ouardi, Faissal *see* **Champarnaud, Jean-Marc et al.**, (**2004j:68014**)
Pacheco, António *see* **Mateus, Paulo et al., 2004i:68122**
Palano, Beatrice *see* **Mereghetti, Carlo, 2004a:68077**
Panteleev, P. A. On the distinguishability of states of automata. (Russian. Russian summary) **2004h:68072**
Papazian, Christophe (*with* Rémila, Éric) Hyperbolic recognition by graph automata.
Paterson, M. S. *see* **Iwama, Kazuo et al., 2004c:68077**
Patkar, Sachin B. *see* **Desai, M. P. et al., 2004i:68112**
Păun, Andrei *see* **Câmpeanu, Cezar, 2004m:68129** *and* (**2004j:68013**)
Peeva, Ketty Finite intuitionistic fuzzy machines. (English summary)
Pelc, Andrzej *see* **Czyzowicz, Jurek et al., 2004k:68085**
Perrin, Dominique *see* **Béal, Marie-Pierre, 2004m:68127**
Perst, Thomas (*with* Seidl, Helmut) Macro forest transducers. (English summary) **2004j:68103**
Petit, Antoine *see* **Bouyer, Patricia, 2004d:68069**
Petre, Elena Watson-Crick ω-automata. (English summary) **2004f:68084**
Petre, Ion *see* **Karhumäki, Juhani**, (**2004j:00032**)
Pighizzini, Giovanni *see* **Geffert, Viliam et al., 2004a:68069** *and* **Mereghetti, Carlo**, (**2004i:00018**)
Pin, Jean-Éric *see* **Margolis, Stuart W. et al., 2004j:68100**; **Gómez, Antonio Cano**, **2004k:68091** *and* (**2004j:68010**)
Piterman, Nir (*with* Vardi, Moshe Y.) From bidirectionality to alternation. (English summary) **2004j:68104**
Plandowski, Wojciech Test sets for large families of languages. (English summary) (*see* **2004j:68010**)
— *see also* **Dąbrowski, Robert**
Polák, Libor Operators on classes of regular languages. (English summary) **2004j:68105**
— Syntactic semiring and universal automaton. (English summary) (*see* **2004j:68010**)
— Syntactic semiring and language equations. (English summary) (*see* **2004j:68013**)
Ponty, Jean-Luc *see* **Giammarresi, Dora et al., 2004k:68090**
Prieur, Christophe[1] *see* **Béal, Marie-Pierre et al., 2004c:68066** *and* **Klimann, Ines et al.**, (**2004j:68010**)
Prodinger, Helmut Words, permutations, and representations of numbers. (English summary) **2004a:68080**
Pukler, A. *see* **Imreh, Balázs et al., 2004i:68115**
Qiu, Dao Wen Automata theory based on complete residuated lattice-valued logic. II. (English summary) **2004b:68097**
— Automata and grammars theory based on quantum logic. (Chinese. English and Chinese summaries) **2004b:68098**
Rabinovich, Alexander Automata over continuous time. (English summary) **2004i:68125**
Rahonis, George Alphabetic pushdown tree transducers. (English summary) (*see* **2004j:68010**)
— DNA tree structures. (English summary) (*see* **2004i:00018**)
Ravikumar, Balasubramanian Weak minimization of DFA—an algorithm and applications. (English summary) (*see* **2004j:68014**)
Ray, Asok *see* **Surana, Amit, 2004m:68143**
Rémila, Éric *see* **Papazian, Christophe**
Reutenauer, Christophe *see* **Brlek, Srečko, 2004d:68070**
Rigo, Michel Characterizing simpler recognizable sets of integers. (English summary)
— (*with* Maes, Arnaud) More on generalized automatic sequences. (English summary) **2004a:68081**
— The commutative closure of a binary slip-language is context-free: a new proof. (English summary) **2004h:68073**
Rodríguez-Patón, Alfonso *see* **Martín-Vide, Carlos**, (**2004i:00018**)
Roggenbach, Markus Determinization of Büchi-automata.
Rosaz, Laurent The word problem for $1\mathscr{LZ}$ congruences is NP-hard. (English summary) **2004g:68097**
Roşu, Grigore (*with* Viswanathan, Mahesh) Testing extended regular language membership incrementally by rewriting. (English summary)
Ruiz Ochando, José *see* **García Pérez, Pedro Luis et al., 2004c:68073** *and* (**2004i:00018**)
Ruohonen, Keijo *see* **Honkala, Juha, 2004f:68080**
Rutten, J. J. M. M. Coinductive counting with weighted automata. (English summary) **2004h:68074**
Rytter, Wojciech *see* **Czyzowicz, Jurek et al., 2004k:68085**
Sakakibara, Naoto *see* **Hashiguchi, Kosaburo et al., 2004k:68092**
Sakarovitch, Jacques *see* **Lombardy, Sylvain, 2004a:68076**; **2004i:68121** *and* **Béal, Marie-Pierre et al., 2004c:68066**
Salimov, F. I. Finitely generated distribution algebras. (English summary)
Salomaa, Arto Composition sequences for functions over a finite domain. (English summary) **2004c:68079**
— *see also* **Mateescu, Alexandru et al., 2004j:68101**; (**2004j:00032**) *and* **Harju, Tero et al.**
Salomaa, Kai *see* **Câmpeanu, Cezar et al., 2004a:68064**; **2004k:68082** *and* **Okhotin, Alexander et al., 2004g:68096**

Salurso, Marianna *see* **Costagliola, Gennaro et al.**, (**2004i:00018**)
San Pietro, Pierluigi (*with* Dang, Zhe) Automatic verification of multi-queue discrete timed automata. (English summary)
Scarabotti, Fabio *see* **Ceccherini-Silberstein, Tullio et al.**, **2004k:68083**
Schmitz, Heinz *see* **Glaßer, Christian**, **2004a:68070**
Schnitger, Georg *see* **Hromkovič, Juraj**, **2004b:68092**
Schnoebelen, Ph. *see* **Masson, Benoît**
Schwentick, Thomas (*with* Thérien, Denis; Vollmer, Heribert) Partially-ordered two-way automata: a new characterization of DA. (English summary) **2004a:68082**
Schwer, Sylviane R. *see* **Autebert, Jean-Michel**, **2004d:68068**
Schwoon, Stefan Determinization and complementation of Streett automata.
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Seibert, Sebastian *see* **Hirvensalo, Mika**, **2004f:68078**
Seidl, Helmut *see* **Perst, Thomas**, **2004j:68103**
Seki, Hiroyuki *see* **Ohsaki, Hitoshi et al.**
Selivanov, V. L. On the decidability of hierarchy classes of regular aperiodic languages. (Russian. Russian summary) **2004c:68080**
Sempere, José M. A note on the equivalence and complexity of linear grammars. (English summary) **2004j:68106**
Sénizergues, Géraud $L(A) = L(B)$? Decidability results from complete formal systems. (English summary) **2004d:68079a**
— $L(A) = L(B)$? A simplified decidability proof. (English summary) **2004d:68079b**
Şerbănuţă, Traian-Florin Extending Parikh matrices. (English summary) **2004i:68126**
Sernadas, Amílcar *see* **Mateus, Paulo et al.**, **2004i:68122**
Sernadas, Cristina S. *see* **Mateus, Paulo et al.**, **2004i:68122**
Serre, Olivier Vectorial languages and linear temporal logic. (English summary) **2004m:68141**
Shalagin, S. V. *see* **Zakharov, V. M. et al.**, (**2004j:00010**)
Shallit, Jeffrey *see* **Domaratzki, Michael et al.**, **2004a:68065** *and* **2004i:68113**
Sharda, K. *see* **Krithivasan, Kamala et al.**, **2004h:68069**
Shinohara, Ayumi *see* **Miyamoto, Satoru et al.**, (**2004j:68014**)
Shyr, Huei-Jan *see* **Fan, Chen-Ming**, **2004k:68087**
Silva, Pedro V. A note on pure and p-pure languages. (English summary) **2004m:68142**
Skryja, Jan *see* **Melichar, Bořivoj**, (**2004j:68012**)
Sokolov, S. Yu. *see* **Zakharov, V. M. et al.**, (**2004j:00010**)
Sokratova, O. V. Automata in autonomous varieties. (English summary) **2004j:68107**
Staiger, Ludwig How large is the set of disjunctive sequences? **2004d:68080**
— The entropy of Lukasiewicz-languages. (English summary) **2004b:68099**
— Weighted finite automata and metrics in Cantor space. (English summary) **2004g:68098**
Stark, Eugene W. On behaviour equivalence for probabilistic I/O automata and its relationship to probabilistic bisimulation. (English summary) **2004h:68075**
Steinby, Magnus Tree automata in the theory of term rewriting. (English summary) (*see* **2004h:68006**)
— *see also* **Imreh, Balázs et al.**, (**2004i:00018**)
Stiebe, Ralf *see* **Martín-Vide, Carlos et al.**, **2004f:68083**
Sun, Jian *see* **Xu, Jianliang[1] et al.**
Surana, Amit (*with* Ray, Asok) Measure of regular languages. (English summary) **2004m:68143**
Sutner, Klaus Reduced power automata. (English summary) (*see* **2004j:68013**)
— The size of power automata. (English summary) **2004e:68060**
Tada, Takemaru *see* **Moriya, Etsuro**, **2004b:68096**
Takai, Toshinori *see* **Ohsaki, Hitoshi et al.**
Takeda, Masayuki *see* **Miyamoto, Satoru et al.**, (**2004j:68014**)
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Tantau, Till Towards a cardinality theorem for finite automata. (English summary)
Terlutte, Alain *see* **Denis, François et al.**, **2004g:68087** *and* **Carme, Julien et al.**, (**2004j:68010**)
Tesson, Pascal (*with* Thérien, Denis) Diamonds are forever: the variety DA. (English summary) **2004j:68108**
Thérien, Denis *see* **Schwentick, Thomas et al.**, **2004a:68082** *and* **Tesson, Pascal**, **2004j:68108**
Thomas, Wolfgang A short introduction to infinite automata. (English summary) **2004a:68083**
Tini, Simone *see* **Lanotte, Ruggero et al.**, **2004j:68099**
Tomita, Kohji (*with* Kurokawa, Haruhisa; Murata, Satoshi) Graph automata: natural expression of self-reproduction. (English summary) **2004g:68099**
Tommasi, Marc *see* **Carme, Julien et al.**, (**2004j:68010**)
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Tripakis, Stavros Undecidable problems of decentralized observation and control on regular languages. (English summary) **2004m:68144**
Troníček, Zdeněk Common subsequence automaton. (English summary) (*see* **2004j:68013**)
Truthe, Bianca On the finiteness of picture languages of synchronous, simple non-deterministic chain code picture systems. (English summary) **2004i:68127**
Tsui, Ta-Shan *see* **Yeh, Yi-Shiung et al.**, **2004f:68085** *and* **2004i:68128**
Ukkonen, Esko *see* **Tamm, Hellis**, (**2004j:68014**)
Uščumlić, Š. M. *see* **Kilibarda, Goran et al.**, **2004e:68057** *and* **2004h:68067**
Vágvölgyi, Sándor On ground tree transformations and congruences induced by tree automata. (English summary) **2004d:68081**
— *see also* **Câmpeanu, Cezar et al.**, **2004a:68064** *and* **Apró, János**
Vardi, Moshe Y. *see* **Piterman, Nir**, **2004j:68104**
Varma, Sandeep V. *see* **Krithivasan, Kamala et al.**, **2004h:68069**
Varricchio, Stefano *see* **Anselmo, Marcella et al.**, (**2004j:68013**) *and* **d'Alessandro, Flavio**, (**2004j:68010**)
Vaszil, György *see* **Csuhaj-Varjú, Erzsébet et al.**, (**2004j:68010**)
Vazquez de Parga, Manuel *see* **García Pérez, Pedro Luis et al.**, **2004c:68073**
Verlan, Sergey On enhanced time-varying distributed H systems. (English summary) **2004b:68100**
Verma, Kumar Neeraj Two-way equational tree automata for AC-like theories: decidability and closure properties. (English summary)
Viswanathan, Mahesh *see* **Roşu, Grigore**
Vogler, Heiko *see* **Fülöp, Zoltán et al.**
Volkov, Mikhail V. *see* **Ananichev, D. S. et al.**, **2004a:68058**; **2004j:68094** *and* **Margolis, Stuart W. et al.**, **2004j:68100**
Vollmar, Roland *see* **Gruska, Jozef**, (**2004h:68006**)
Vollmer, Heribert *see* **Schwentick, Thomas et al.**, **2004a:68082**
de Vrijer, Roel *see* **van Oostrom, Vincent**, **2004i:68124**
van Vugt, Nikè *see* **Dassen, Ray et al.**, **2004c:68070**
Wada, Yoshito *see* **Hashiguchi, Kosaburo et al.**, **2004d:68074**
Walukiewicz, Igor *see* **Niwiński, Damian**, **2004g:68095**
Wang, Jue *see* **Cheng, Wei[4]**, **2004m:68130**
Watson, Bruce W. A new recursive incremental algorithm for building minimal acyclic deterministic finite automata. (English summary) (*see* **2004i:00018**)
— A new algorithm for the construction of minimal acyclic DFAs. (English summary) **2004g:68100**
Wilke, Thomas *see* **Fritz, Carsten**, **2004k:68089**
Woinowski, Jens R. *see* **Niemann, Gundula**, **2004a:68079**
Wood, Derick *see* **Brüggemann-Klein, Anne**, **2004b:68084** *and* **Giammarresi, Dora et al.**, **2004k:68090**
Wozniak, Geoff *see* **Kari, Lila et al.**, **2004i:68118**
Xu, Jianliang[1] (*with* Sun, Jian; Chen, Yong; Meng, Qingchun) A relationship between sub-logarithmic space-bounded alternating pushdown automata with and without 1 inkdot. (Chinese. English and Chinese summaries)
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Yeh, Yi-Shiung (*with* Yu, Shyr-Shen; Tsui, Ta-Shan) A note on mc-DFA and its minimization. (English summary) **2004i:68128**
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Yeh, Yow-Tzong (*with* Yu, Shyr-Shen) The disjunctivities of ω-languages. (English summary) **2004g:68101**
Yu, Sheng *see* **Domaratzki, Michael et al.**, **2004a:68065**; **Ilie, Lucian**, **2004g:68090**; **Mateescu, Alexandru et al.**, **2004j:68101** *and* **Câmpeanu, Cezar et al.**, **2004k:68082**
Yu, Shyr-Shen *see* **Yeh, Yi-Shiung et al.**, **2004f:68085**; **2004i:68128**; **Yeh, Yow-Tzong**, **2004g:68101** *and* **Hsiao, Hung Kuei et al.**, **2004m:68135**
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Zandron, Claudio *see* **Frisco, Pierluigi**, **2004f:68076**
Zhang, Guo-Qiang *see* **Droste, Manfred**, **2004d:68072**
Zhang, Hao *see* **Bai, Shuo**, **2004a:68060**
Zhang, Rong Hua (*with* Cai, Yanying) Two classes of languages related to the prefix codes. (English summary) **2004k:68099**
Zhao, Yu-Kuang *see* **Hsiao, Hung Kuei et al.**, **2004m:68135**
Ziadi, Djelloul *see* **Giammarresi, Dora et al.**, **2004k:68090** *and* **Champarnaud, Jean-Marc et al.**, (**2004j:68014**)
van Zijl, Lynette Random number generation with $\oplus$-NFAs. (English summary) (*see* **2004j:68012**)
— Supernondeterministic finite automata. (English summary) (*see* **2004j:68012**)
— Succinct descriptions of regular languages with binary $\oplus$-NFAs. (English summary) (*see* **2004j:68014**)
Zizza, Rosalba *see* **Bonizzoni, Paola et al.**, (**2004j:68010**)
Zuhovitzky, Sharon *see* **Kupferman, Orna**

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Aceto, Luca (*with* Fokkink, Willem Jan; Ingólfsdóttir, Anna) A note on an expressiveness hierarchy for multi-exit iteration. (English summary) **2004c:68090**
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Adsul, Bharat (*with* Sohoni, Milind) Local normal forms for logics over traces. (English summary) **2004k:68102**
Aguado, Joaquin (*with* Bălănescu, Tudor; Cowling, Anthony J.; Gheorghe, Marian; Holcombe, Mike; Ipate, Florentin) P systems with replicated rewriting and stream X-machines (Eilenberg machines). (English summary) **2004i:68046**
Akl, Selim G. *see* **Bruda, Stefan D.**, **2004c:68030**
Albert, Michael H. (*with* Atkinson, M. D.; Ruškuc, Nik) Regular closed sets of permutations. (English summary) **2004d:68106**
Alberucci, Luca Strictness of the modal μ-calculus hierarchy.
Alechina, Natasha (*with* Demri, Stéphane; de Rijke, Maarten) A modal perspective on path constraints. (English summary) **2004k:68036**
Allender, Eric (*with* Arvind, V.; Mahajan, Meena) Arithmetic complexity, Kleene closure, and formal power series. (English summary) **2004d:68040**
Allouche, Jean-Paul (*with* Shallit, Jeffrey) ★ Automatic sequences. **2004k:11028**
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Alonso Pardo, Miguel Á. (*with* Díaz, Víctor J.; Vilares Ferro, Manuel) Bidirectional push down automata. (English summary) (*see* **2004j:68013**)
Alonso-Sanz, Ramón Reversible cellular automata with memory: two-dimensional patterns from a single site seed. (English summary) **2004a:68102**
Amadio, Roberto M. Max-plus quasi-interpretations. (English summary) (*see* **2004j:68021**)

Amir, Amihood (*with* Apostolico, Alberto; Landau, Gad M.; Satta, Giorgio) Efficient text fingerprinting via Parikh mapping. (English summary) **2004i:68239**

Anchorena, Sergio (*with* Cases, Blanca) Modeling chaotic series by simple eco-grammar systems with reproduction, death and maturation of agents. (English summary)

Anderson, James Andrew *see* **Foryś, Wit et al., 2004j:20118**

Andrei, Ştefan (*with* Chin, Wei-Ngan; Cavadini, Salvador Valerio) Self-embedded context-free grammars with regular counterparts. (English summary) **2004m:68120**

Apostolico, Alberto *see* **Amir, Amihood et al., 2004i:68239**

Arnold, André (*with* Vincent, Aymeric; Walukiewicz, Igor) Games for synthesis of controllers with partial observation. (English summary) **2004h:93121**

Arvind, V. *see* **Allender, Eric et al., 2004d:68040**

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Autebert, Jean-Michel (*with* Latapy, Matthieu; Schwer, Sylviane R.) Le treillis des chemins de Delannoy. (English and French summaries) [The lattice of Delannoy paths] **2004d:05008**

Ay, Nihat *see* **Wennekers, Thomas, (2004e:92001)**

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Bartzis, Constantinos (*with* Bultan, Tevfik) Efficient symbolic representations for arithmetic constraints in verification. (English summary) **2004h:68077**

Bernet, Julien (*with* Janin, David; Walukiewicz, Igor) Permissive strategies: from parity games to safety games. (English summary) **2004j:68112**

Bertoni, Alberto (*with* Mereghetti, Carlo; Palano, Beatrice) Quantum computing: 1-way quantum automata. (English summary) (*see* **2004j:68010**)

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Blanchet-Sadri, F. (*with* Chriscoe, Ajay) Local periods and binary partial words: an algorithm. (English summary) **2004k:68138**

Bloem, Roderick *see* **Gurumurthy, Sankar et al.**

Blondel, Vincent D. (*with* Theys, Jacques; Vladimirov, A. A.) An elementary counterexample to the finiteness conjecture. (English summary) **2004g:15010**

Blumensath, Achim *see* **Berwanger, Dietmar**

Bogdanović, Stojan *see* **Popović, Žarko et al., 2004j:68125**

Boigelot, Bernard (*with* Latour, Louis) Counting the solutions of Presburger equations without enumerating them. (English summary) (*see* **2004j:68012**)

Bordihn, Henning (*with* Reichel, Bernd) On descriptions of context-free languages by CD grammar systems. (English summary) **2004f:68055**

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— (*with* Esparza, Javier; Touili, Tayssir) A generic approach to the static analysis of concurrent programs with procedures. (English summary) **2004h:68095**

— (*with* Habermehl, Peter; Mayr, Richard) Automatic verification of recursive procedures with one integer parameter. (English summary) **2004h:68078**

Bouyer, Patricia (*with* Petit, Antoine; Thérien, Denis) An algebraic approach to data languages and timed languages. (English summary) **2004h:68087**

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Bradfield, Julian C. Fixpoints, games and the difference hierarchy. (English summary) **2004g:03074**

Braitenberg, Valentino *see* **Crespi-Reghizzi, Stefano, (2004i:00018)**

Branco, Mário J. J. Varieties of languages. (English summary) **2004j:68121**

(Brauer, Wilfried) *see* **Formal and natural computing, 2004j:00032**

Bridson, Martin R. Combings of groups and the grammar of reparameterization. (English summary) **2004h:20053**

Brlek, Srečko (*with* Ladouceur, A.) A note on differentiable palindromes. (English summary) **2004f:68122**

Brodsky, Alex (*with* Pippenger, Nicholas) Characterizations of 1-way quantum finite automata. (English summary) **2004h:68037**

Broersen, Jan (*with* Wieringa, Roel; Meyer, John-Jules Ch.) A fixed-point characterization of a deontic logic of regular action. (English summary) **2004i:68199**

Brookes, Stephen Traces, pomsets, fairness and full abstraction for communicating processes. (English summary) (*see* **2004j:68004**)

Bruda, Stefan D. (*with* Akl, Selim G.) Pursuit and evasion on a ring: an infinite hierarchy for parallel real-time systems. (English summary) **2004c:68030**

Buchholz, Thomas (*with* Klein, Andreas[1]; Kutrib, Martin) On interacting automata with limited nondeterminism. (English summary) **2004k:68117**

— (*with* Klein, Andreas[1]; Kutrib, Martin) Iterative arrays with limited nondeterministic communication cell. (English summary) **2004i:68148**

Bultan, Tevfik *see* **Bartzis, Constantinos, 2004h:68077**

Burgueño, Augusto *see* **Aceto, Luca et al., 2004a:68085**

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— $\mathscr{R}$-trivial languages of words on countable ordinals. (English summary) **2004j:68122**

Cases, Blanca *see* **Anchorena, Sergio**

Cattaneo, Gianpiero (*with* Dennunzio, Alberto; Margara, Luciano) Chaotic subshifts and related languages—applications to one-dimensional cellular automata. (English summary) **2004h:68090**

Cavadini, Salvador Valerio *see* **Andrei, Ştefan et al., 2004m:68120**

Căzănescu, Virgil E. (*with* Kudlek, Manfred) Homomorphic characterizations of linear and algebraic languages. (English summary) (*see* **2004i:00018**)

Ceterchi, Rodica (*with* Gramatovici, Radu; Jonoska, Nataša; Subramanian, K. G.) Tissue-like P systems with active membranes for picture generation. (English summary) **2004k:68044**

Champarnaud, Jean-Marc (*with* Coulon, Fabien) Theoretical study and implementation of the canonical automaton. (English summary) **2004f:68104**

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Chin, Wei-Ngan *see* **Andrei, Ştefan et al., 2004m:68120**

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Chriscoe, Ajay *see* **Blanchet-Sadri, F., 2004k:68138**

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Chuan, Wai-Fong Moments of conjugacy classes of binary words. (English summary) **2004i:68145**

Ćirić, Miroslav *see* **Popović, Žarko et al., 2004j:68125**

Cleaveland, W. Rance *see* **Bhat, Girish S. et al., (2004j:68007)**

Colmerauer, Alain (*with* Dao, Thi-Bich-Hanh) Expressiveness of full first-order constraints in the algebra of finite or infinite trees. (English summary) **2004j:03039**

Condon, Anne E. *see* **Madani, Omid et al., 2004e:68094**

Costagliola, Gennaro (*with* Deufemia, Vincenzo; Ferrucci, Filomena; Gravino, Carmine) On regular drawn symbolic picture languages. (English summary) **2004m:68121**

Coulon, Fabien *see* **Champarnaud, Jean-Marc, 2004f:68104**

Coven, Ethan M. (*with* Jonoska, Nataša) DNA hybridization, shifts of finite type, and tiling of the integers. (English summary) (*see* **2004i:00018**)

Cowling, Anthony J. *see* **Aguado, Joaquin et al., 2004i:68046**

Crespi-Reghizzi, Stefano (*with* Pradella, Matteo) Tile rewriting grammars. (English summary) (*see* **2004j:68010**)

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Crochemore, Maxime (*with* Stefanov, Valeri T.) Waiting time and complexity for matching patterns with automata. (English summary) **2004d:68173**

Csuhaj-Varjú, Erzsébet (*with* Vaszil, György) Parallel communicating grammar systems with incomplete information communication. (English summary) **2004a:68052**

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Czaja, Ludwik (*with* Kudlek, Manfred) ω-process languages for place/transition nets. (English summary) **2004k:68123**

Czenzer, Douglas (*with* Remmel, Jeffrey B.) Index sets for ω-languages. (English summary) **2004j:03050**

Czyzowicz, Jurek (*with* Fraczak, Wojciech; Pelc, Andrzej; Rytter, Wojciech) Prime decompositions of regular prefix codes. (English summary) (*see* **2004j:68013**)

Dal Zilio, Silvano (*with* Lugiez, Denis) XML schema, tree logic and sheaves automata. (English summary)

Dams, Dennis (*with* Lakhnech, Yassine; Steffen, Martin) Iterating transducers. (English summary) (*see* **2004j:68007**)

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Dao, Thi-Bich-Hanh *see* **Colmerauer, Alain, 2004j:03039**

Dassow, Jürgen On the differentiation function of some language generating devices. (English summary) (*see* **2004h:68006**)

— *see also* **Descriptional complexity of automata, grammars and related structures**

Dayar, Tuğrul *see* **Gusak, Oleg et al., 2004b:90017**

De Francesco, Nicoletta *see* **Barbuti, Roberto et al.**

Degtyarëv, Anatoliĭ Ivanovich *see* **Vershinin, K. P. et al., 2004j:68159**

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Dembiński, Piotr (*with* Penczek, Wojciech; Półrola, Agata) Verification of timed automata based on similarity. (English summary) **2004i:68136**

Demri, Stéphane (*with* D'Souza, Deepak) An automata-theoretic approach to constraint LTL. (English summary) **2004k:68107**
— (*with* Sattler, Ulrike) Automata-theoretic decision procedures for information logics. (English summary) **2004f:68040**
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Dennunzio, Alberto *see* **Cattaneo, Gianpiero et al., 2004h:68090**
De Sarrazin, Gisela (*with* Rondón, Juan E.) Some chains of discrete event systems. (English summary) **2004f:93089**
Deufemia, Vincenzo *see* **Costagliola, Gennaro et al., 2004m:68121**
Diamond, Beverly *see* **Barge, Marcy et al., 2004d:68127**
Díaz, Víctor J. *see* **Alonso Pardo, Miguel Á. et al., (2004j:68013)**
Dömösi, Pál (*with* Nehaniv, Chrystopher L.; Rhodes, John L.) Finite semigroups, feedback, and the Letichevsky criteria on non-empty words in finite automata. (English summary) **2004b:68108**
Dovier, Agostino (*with* Piazza, Carla; Policriti, Alberto) A fast bisimulation algorithm. (English summary) (*see* **2004j:68007**)
Drewes, Frank (*with* Högberg, Johanna) Learning a regular tree language from a teacher. (English summary) (*see* **2004j:68010**)
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(Droste, Manfred) *see* **Logic and algebra for concurrency** *and* **Weighted automata: theory and applications**
D'Souza, Deepak A logical characterisation of event clock automata. (English summary) **2004e:68064**
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Duchi, Enrica (*with* Frosini, Andrea; Pinzani, Renzo; Rinaldi, Simone) A note on rational succession rules. (English summary) **2004e:11011**
Duparc, Jacques *see* **Cachat, Thierry et al., 2004m:03144**
Ďuriš, Pavol (*with* Mañuch, Ján) On the computational complexity of infinite words. (English summary) **2004c:68037**
Ehrenfeucht, Andrzej (*with* Rozenberg, Grzegorz) Forbidding-enforcing systems. (English summary) **2004c:68031**
(Ehrig, Hartmut) *see* **Formal and natural computing, 2004j:00032**
Eiter, Thomas (*with* Gottlob, Georg; Schwentick, Thomas) Second-order logic over strings: regular and non-regular fragments. (English summary) **2004a:68041**
Enea, Costel *see* **Ţiplea, Ferucio Laurenţiu et al., 2004j:94018**
Engelfriet, Joeri (*with* Treur, Jan) Linear, branching time and joint closure semantics for temporal logic. (English summary) **2004d:68085**
Engle-Warnick, Jim The advantage of complexity in two 2×2 games. (English summary)
Ermel, Dirk (*with* Wätjen, Dietmar) Limited IL systems. (English summary) **2004e:68046**
Ésik, Zoltán (*with* Ito, Masami[1]) Temporal logic with cyclic counting and the degree of aperiodicity of finite automata. (English summary) **2004h:03085**
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Esparza, Javier An automata-theoretic approach to software verification. (*see* **2004j:68010**)
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Etessami, Kousha (*with* Wilke, Thomas; Schuller, Rebecca A.) Fair simulation relations, parity games, and state space reduction for Büchi automata. (English summary)
Ewert, Sigrid *see* **van der Walt, Andries, 2004c:68063**
Fanchon, Jean (*with* Morin, Rémi) Regular sets of pomsets with autoconcurrency. (English summary) (*see* **2004j:68004**)
Fariña, F. *see* **Astrain, J. J. et al.**
Fernau, Henning (*with* Stiebe, Ralf) Valences in Lindenmayer systems. (English summary)
— (*with* Holzer, Markus) Graph-controlled cooperating distributed grammar systems with singleton components. (English summary) **2004f:68056**
— Parallel grammars: a phenomenology. (English summary) **2004e:68047**
— Nonterminal complexity of programmed grammars. (English summary) **2004c:68061**
— Identifying terminal distinguishable languages. (English summary) **2004k:68073**
Ferrucci, Filomena *see* **Costagliola, Gennaro et al., 2004m:68121**
Finkel, Olivier An effective extension of the Wagner hierarchy to blind counter automata. (English summary) **2004b:03049**
— Undecidability of topological and arithmetical properties of infinitary rational relations. (English summary) **2004i:03063**
Fokkink, Willem Jan *see* **Aceto, Luca et al., 2004c:68090**
Fortiş, Florin Contextual grammars with catenation closure properties. (English summary)
Foryś, Wit (*with* Krawczyk, Tomasz; Anderson, James Andrew) Semiretracts—a counterexample and some results. (English summary) **2004j:20118**
Fourneau, Jean-Michel *see* **Gusak, Oleg et al., 2004b:90017**
Fraczak, Wojciech (*with* Podolak, Anna) A characterization of s-languages. (English summary) **2004j:68123**
— *see also* **Czyzowicz, Jurek et al., (2004j:68013)**
Freund, Franziska *see* **Freund, Rudolf J., (2004i:00018)**
Freund, Rudolf J. (*with* Martín-Vide, Carlos; Obtułowicz, Adam; Păun, Gheorghe) On three classes of automata-like P systems. (English summary) (*see* **2004j:68010**)
— (*with* Freund, Franziska) Generalized homogeneous P-systems. (English summary) (*see* **2004i:00018**)
Fritz, Carsten Constructing Büchi automata from linear temporal logic using simulation relations for alternating Büchi automata. (English summary) (*see* **2004j:68014**)
Frosini, Andrea *see* **Duchi, Enrica et al., 2004e:11011**
Fülöp, Zoltán (*with* Vogler, Heiko) Tree series transformations that respect copying. (English summary) **2004c:68087**
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Gabriele, Alessandra (*with* Mignosi, Filippo; Restivo, Antonio; Sciortino, Marinella) Indexing structures for approximate string matching. (English summary) (*see* **2004j:68002**)
Garitagoitia, J. R. *see* **Astrain, J. J. et al.**
Gastin, Paul (*with* Oddoux, Denis) Fast LTL to Büchi automata translation. (English summary) (*see* **2004j:68007**)
— *see also* **Logic and algebra for concurrency**
Gheorghe, Marian *see* **Bălănescu, Tudor et al., 2004d:68017** *and* **Aguado, Joaquin et al., 2004i:68046**
Girault-Beauquier, Danièle Markov decision processes and deterministic Büchi automata. (English summary) **2004f:68093**
— On probabilistic timed automata. (English summary) **2004c:68082**
— (*with* Nivat, Maurice) A codicity undecidable problem in the plane. (English summary) **2004e:52022**
Glier, Oliver Kolmogorov complexity and deterministic context-free languages. (English summary) **2004h:68059**
Gohari, Peyman (*with* Wonham, W. M.) Reduced supervisors for timed discrete-event systems. (English summary) **2004c:93075**
(Gomes, Gracinda M. S.) *see* **Semigroups, algorithms, automata and languages, 2004g:20002**
Gonzalez De Mendivil, J. R. *see* **Astrain, J. J. et al.**
Gossner, Olivier (*with* Hernández, Penélope) On the complexity of coordination. (English summary) **2004b:91026**
Gottlob, Georg *see* **Eiter, Thomas et al., 2004a:68041**
Grabner, Peter J. (*with* Rigo, Michel) Additive functions with respect to numeration systems on regular languages. (English summary) **2004i:11004**
Gramatovici, Radu *see* **Ceterchi, Rodica et al., 2004k:68044**
Gravino, Carmine *see* **Costagliola, Gennaro et al., 2004m:68121**
Grieser, Gunter *see* **Lange, Steffen et al., 2004d:68060**
Grigorieff, Serge *see* **Choffrut, Christian, 2004k:03076**
Groce, Alex *see* **Bhat, Girish S. et al., (2004j:68007)**
Grohe, Martin (*with* Turán, György) Learnability and definability in trees and similar structures. (English summary) **2004m:68111**
Guesnet, Yannick On maximal synchronous codes. (English summary) **2004m:94029**
Gurumurthy, Sankar (*with* Bloem, Roderick; Somenzi, Fabio) Fair simulation minimization. (English summary)
Gusak, Oleg (*with* Dayar, Tuğrul; Fourneau, Jean-Michel) Lumpable continuous-time stochastic automata networks. (English summary) **2004b:90017**
Gutiérrez, Claudio Exponent of periodicity of word equations in fixed dimension is polynomial. (English summary) **2004e:20054**
Habermehl, Peter *see* **Bouajjani, Ahmed et al., 2004h:68078**
Hanks, Steve *see* **Madani, Omid et al., 2004e:68094**
Harju, Tero Decision questions on integer matrices. (English summary) **2004b:03020**
— (*with* Nowotka, Dirk) About Duval's conjecture. (English summary) (*see* **2004j:68010**)
Hemaspaandra, Lane A. (*with* Mukherji, Proshanto; Tantau, Till) Computation with absolutely no space overhead. (English summary) (*see* **2004j:68010**)
Henzinger, Thomas A. *see* **Chatterjee, Krishnendu et al., 2004k:68104** *and* **Jurdziński, Marcin et al., 2004m:68158**
Hermida, Claudio (*with* Mateus, Paulo) Paracategories. II. Adjunctions, fibrations and examples from probabilistic automata theory. (English summary) **2004m:68173**
Hernández, Penélope *see* **Gossner, Olivier, 2004b:91026**
Heuberger, Clemens (*with* Prodinger, Helmut) Carry propagation in signed digit representations. (English summary) **2004a:68172**
de la Higuera, Colin (*with* Oncina, Jose) Inferring deterministic linear languages. (English summary) (*see* **2004j:68006**)
— (*with* Janodet, J. C.) Inference of ω-languages from prefixes. (English summary) **2004m:68113**
Hiraishi, Kunihiko *see* **Koshiba, Takeshi, 2004i:68096**
Hirose, Sadaki (*with* Okawa, Satoshi) Characterizations of language classes: universal grammars, Dyck reductions, and homomorphisms. (English summary) (*see* **2004i:00018**)
Högberg, Johanna *see* **Drewes, Frank, (2004j:68010)**
Holcombe, Mike *see* **Bălănescu, Tudor et al., 2004d:68017** *and* **Aguado, Joaquin et al., 2004i:68046**
Holton, Charles *see* **Barge, Marcy et al., 2004d:68127**
Holzer, Markus (*with* Schwoon, Stefan) Assembling molecules in ATOMIX is hard. (English summary)
— *see also* **Fernau, Henning, 2004f:68056**
Honkala, Juha Decidability results for Watson-Crick D0L systems with nonregular triggers. (English summary) **2004d:68066**
— Bounds for the D0L language equivalence problem. (English summary) **2004m:68122**
Hoogeboom, Hendrik Jan (*with* Kosters, Walter A.) Tetris and decidability. (English summary) **2004k:03022**
Hosoya, Haruo (*with* Pierce, Benjamin C.) Regular expression pattern matching for XML. (English summary)
Huang, Cheng Chih (*with* Yu, Shyr-Shen) Solutions to the language equation $LB = AL$. (English summary) **2004d:68130**
Hunt, Harry B., III *see* **Barrett, Christopher L. et al., 2004b:68061**
Hütten, Patrick *see* **Wallmeier, Nico et al., (2004j:68014)**
Ibarra, Oscar H. (*with* Dang, Zhe; San Pietro, Pierluigi) Verification in loosely synchronous queue-connected discrete timed automata. (English summary) **2004g:68109**
— *see also* **Dang, Zhe et al., 2004b:68105** *and* **Implementation and application of automata, 2004j:68014**
Ilie, Lucian (*with* Mitrana, Victor) Crossing-over on languages: a formal representation of chromosomes recombination. (English summary) (*see* **2004i:00018**)
(Imaoka, Teruo) *see* **Words, languages & combinatorics, 2004h:68006**
Imreh, Balázs (*with* Imreh, Csanád; Ito, Masami[1]) On monotonic directable nondeterministic automata. (English summary) **2004j:68124**
Imreh, Csanád *see* **Imreh, Balázs et al., 2004j:68124**
Ingólfsdóttir, Anna *see* **Aceto, Luca et al., 2004c:68090**
Ionescu, Mihai (*with* Martín-Vide, Carlos; Păun, Andrei; Păun, Gheorghe) Unexpected universality results for three classes of P systems with symport/antiport. (English summary) **2004m:68046**
Ipate, Florentin *see* **Bălănescu, Tudor et al., 2004d:68017** *and* **Aguado, Joaquin et al., 2004i:68046**
Ito, Masami[1] *see* **Ésik, Zoltán, 2004h:03085**; **Words, languages & combinatorics, 2004h:68006** *and* **Imreh, Balázs et al., 2004j:68124**
Jabłoński, Dariusz (*with* Kulczycki, Marcin) Topological transitivity, mixing and nonwandering set of subshifts of finite type—a numerical approach. (English summary) **2004h:37011**
Jäger, Gerhard On the generative capacity of multi-modal categorial grammars. (English

summary) **2004k:03044**

Jančar, Petr (*with* Kučera, Antonín[2]; Moller, Faron; Sawa, Zdeněk) Equivalence-checking with one-counter automata: a generic method for proving lower bounds. (English summary) **2004a:68036**

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Janin, David *see* **Bernet, Julien et al., 2004j:68112**

Janodet, J. C. *see* **de la Higuera, Colin, 2004m:68113**

Jantke, Klaus P. *see* **Lange, Steffen et al., 2004d:68060**

Jenkinson, Oliver (*with* Zamboni, Luca Q.) Characterisations of balanced words via orderings. (English summary) **2004h:68110**

Jiang, Zhi-Song *see* **Wang, Yi[4], 2004i:37025**

Jonoska, Nataša (*with* Kephart, David; Mahalingam, Kalpana) Generating DNA code words. (English summary) **2004d:92018**

— *see also* **Ceterchi, Rodica et al., 2004k:68044** *and* **Coven, Ethan M., (2004i:00018)**

Jurdziński, Marcin (*with* Kupferman, Orna; Henzinger, Thomas A.) Trading probability for fairness. (English summary) **2004m:68158**

— *see also* **Chatterjee, Krishnendu et al., 2004k:68104**

Jurdziński, Tomasz (*with* Kutyłowski, Mirosław) Communication gap for finite memory devices. (English summary)

Kandulski, Maciej Derived tree languages of nonassociative Lambek categorical grammars with product. (English summary) **2004f:68160**

Karakostas, George (*with* Lipton, Richard J.; Viglas, Anastasios) On the complexity of intersecting finite state automata and NL versus NP. (English summary) **2004c:68039**

Karhumäki, Juhani (*with* Lepistö, A.; Plandowski, Wojciech) Locally periodic versus globally periodic infinite words. (English summary) **2004g:68136**

— (*with* Plandowski, Wojciech; Rytter, Wojciech) The complexity of compressing subsegments of images described by finite automata. (English summary) **2004b:68174**

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Kato, Hirotaka (*with* Matsumoto, Satoshi) Learning unions of regular pattern languages using queries. (Japanese. English summary) **2004m:68115**

Kelarev, Andrei (*with* Trotter, Peter G.) A combinatorial property of languages and monoids. **2004k:20139**

— On incidence rings of group automata. (English summary) **2004d:16048**

— (*with* Sokratova, O. V.) On congruences of automata defined by directed graphs. (English summary) **2004c:68088**

Kemmerer, Richard A. *see* **Dang, Zhe et al., 2004b:68105**

Kephart, David *see* **Jonoska, Nataša et al., 2004d:92018**

Khoussainov, Bakhadyr (*with* Nerode, Anil) ★ Automata theory and its applications. (English summary) **2004e:03073**

— (*with* Kowalski, Tomasz[1]) Games on graphs: automata, structure, and complexity. **2004m:03146**

— (*with* Rubin, Sasha) Automatic structures: overview and future directions. (English summary) **2004f:03074**

Kimberling, Clark Affinely recursive sets and orderings of languages. (English summary) **2004m:68200**

Kirsten, Daniel Alternating tree automata and parity games.

Klaedtke, Felix Complementation of Büchi automata using alternation.

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Klein, Andreas[1] *see* **Buchholz, Thomas et al., 2004i:68148** *and* **2004k:68117**

Klempien-Hinrichs, Renate *see* **Drewes, Frank et al., 2004e:68045**

Klimann, Ines A solution to the problem of (A, B)-invariance for series. (English summary) **2004b:93034**

Knapik, Teodor (*with* Niwiński, Damian; Urzyczyn, Paweł) Higher-order pushdown trees are easy. (English summary) **2004a:03020**

Kolář, Dušan *see* **Meduna, Alexander, (2004i:00018)**

Kopeček, Ivan (*with* Novotný, Miroslav) On equations including strings. (English summary) **2004g:68172**

Koshiba, Takeshi (*with* Hiraishi, Kunihiko) A note on finding one-variable patterns consistent with examples and counterexamples. (English summary) **2004i:68096**

Kosters, Walter A. *see* **Hoogeboom, Hendrik Jan, 2004k:03022**

Kowalski, Tomasz[1] *see* **Khoussainov, Bakhadyr, 2004m:03146**

Kracht, Marcus The combinatorics of cases. (English summary) **2004k:68163**

Král, Jaroslav (*with* Žemlička, Michal) Semi-top-down syntax analysis. (English summary) (*see* **2004i:00018**)

Krawczyk, Tomasz *see* **Foryś, Wit et al., 2004j:20118**

Kreowski, Hans-Jörg *see* **Drewes, Frank et al., 2004e:68045**

Krithivasan, Kamala *see* **Madhu, Mutyam, 2004i:68058**

Krob, Daniel (*with* Mairesse, Jean; Michos, Ioannis) On the average parallelism in trace monoids. (English summary) (*see* **2004j:68020**)

Kučera, Antonín[2] (*with* Mayr, Richard) On the complexity of semantic equivalences for pushdown automata and BPA. (English summary)

— The complexity of bisimilarity-checking for one-counter processes. (English summary) **2004e:68073**

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Kudlek, Manfred (*with* Mitrana, Victor) Normal forms of grammars, finite automata, abstract families, and closure properties of multiset languages. (English summary) (*see* **2004k:68009**)

— (*with* Martín-Vide, Carlos; Mitrana, Victor) Multiple pattern interpretations. (English summary) **2004b:68080**

— *see also* **Czaja, Ludwik, 2004k:68123** *and* **Căzănescu, Virgil E., (2004i:00018)**

Kulczycki, Marcin *see* **Jabłoński, Dariusz, 2004h:37011**

Kummetz, Ralph (*with* Kuske, Dietrich) The topology of Mazurkiewicz traces. (English summary) **2004j:68133**

Kupferman, Orna *see* **Jurdziński, Marcin et al., 2004m:68158**

Kupriyanova, L. V. (*with* Speranskiĭ, D. V.; Samoĭlov, V. G.) Interval arithmetic over the field GF(p). (Russian. English summary) **2004b:65062**

Kuske, Dietrich Recognizable sets of N-free pomsets are monadically axiomatizable. (English summary) **2004b:03050**

— Towards a language theory for infinite N-free pomsets. (English summary) **2004c:68102**

— *see also* **Kummetz, Ralph, 2004j:68133**

Küsters, Ralf Memoryless determinacy of parity games.

Kutrib, Martin *see* **Buchholz, Thomas et al., 2004i:68148** *and* **2004k:68117**

Kutyłowski, Mirosław *see* **Jurdziński, Tomasz**

Ladouceur, A. *see* **Brlek, Srečko, 2004f:68122**

Lakhnech, Yassine *see* **Dams, Dennis et al., (2004j:68007)**

Landau, Gad M. *see* **Amir, Amihood et al., 2004i:68239**

Lange, Steffen (*with* Grieser, Gunter; Jantke, Klaus P.) Advanced elementary formal systems. (English summary) **2004d:68060**

Lanotte, Ruggero (*with* Maggiolo-Schettini, Andrea; Tini, Simone) Concurrency in timed automata. (English summary) **2004j:68134**

Larsen, Kim Guldstrand *see* **Aceto, Luca et al., 2004a:68085**

Latapy, Matthieu *see* **Autebert, Jean-Michel et al., 2004d:05008**

Latour, Louis *see* **Boigelot, Bernard, (2004j:68012)**

Lawson, Mark V. ★ Finite automata. **2004g:68001**

Leiß, Hans (*with* de Rougemont, Michel) Automata on Lempel-Ziv compressed strings. (English summary) **2004m:68041**

Lepistö, A. *see* **Karhumäki, Juhani et al., 2004g:68136**

Li, Hong[3] *see* **Liu, Qun, 2004d:94020**

Liebehenschel, Jens On the connection between lexicographic generation and ranking. (English summary) **2004e:68127**

— Lexicographical generation of a generalized Dyck language. (English summary) **2004g:68126**

Lipton, Richard J. *see* **Karakostas, George et al., 2004c:68039**

Liu, Qun (*with* Li, Hong[3]) Completion of synchronous codes. (Chinese. English and Chinese summaries) **2004d:94020**

Löding, Christof Model-checking infinite systems generated by ground tree rewriting. (English summary) **2004a:68092**

López-Ortiz, Alejandro *see* **Demaine, Erik D. et al., 2004d:68044**

Lueker, George S. Improved bounds on the average length of longest common subsequences. (English summary) (*see* **2004a:68002**)

Lugiez, Denis *see* **Dal Zilio, Silvano**

Lutz, Carsten Combining interval-based temporal reasoning with general TBoxes. (English summary) **2004k:68153**

Luukkainen, Matti *see* **Malinen, Tuomo, 2004m:68163**

Ly, Olivier Automatic graphs and D0L-sequences of finite graphs. (English summary) **2004g:03061**

Lyaletskiĭ, A. V. *see* **Vershinin, K. P. et al., 2004j:68159**

Lynch, Nancy (*with* Segala, Roberto; Vaandrager, Frits) Hybrid I/O automata. (English summary) **2004h:68084**

Madani, Omid (*with* Hanks, Steve; Condon, Anne E.) On the undecidability of probabilistic planning and related stochastic optimization problems. (English summary) **2004e:68094**

Madhu, Mutyam (*with* Krithivasan, Kamala) On a class of P automata. (English summary) **2004i:68058**

— Probabilistic rewriting P systems. (English summary) **2004b:68081**

Maggiolo-Schettini, Andrea *see* **Lanotte, Ruggero et al., 2004j:68134**

Mahajan, Meena *see* **Allender, Eric et al., 2004d:68040**

Mahalingam, Kalpana *see* **Jonoska, Nataša et al., 2004d:92018**

Mairesse, Jean *see* **Krob, Daniel et al., (2004j:68020)**

Mäkinen, Erkki *see* **Ţiplea, Ferucio Laurenţiu et al., 2004f:68067; 2004h:68064** *and* **2004j:94018**

Maler, Oded *see* **Abdeddaïm, Yasmina, (2004j:68007)**

Malik, Davender S. *see* **Mordeson, John N., 2004a:68001**

Malinen, Tuomo (*with* Luukkainen, Matti) Fairness in automata theoretic model checking. (English and Estonian summaries) **2004m:68163**

Malita, Mihaela *see* **Atanasiu, Adrian**

Mañuch, Ján *see* **Ďuriš, Pavol, 2004c:68037**

Marathe, Madhav V. *see* **Barrett, Christopher L. et al., 2004b:68061**

Marchenkov, S. S. On the complexity of recursive sequences. (Russian. Russian summary) **2004h:03086**

Margara, Luciano *see* **Cattaneo, Gianpiero et al., 2004h:68090**

Margolis, Stuart W. (*with* Steinberg, Benjamin) Power semigroups and polynomial closure. (English summary) **2004m:20109**

Markey, Nicolas (*with* Schnoebelen, Ph.) A PTIME-complete matching problem for SLP-compressed words. (English summary) **2004k:68059**

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Maté, José L. (*with* Rodríguez-Patón, Alfonso; Silva, Andrés) On the power of P systems with DNA-worm-objects. (English summary) **2004i:68061**

Mateescu, Alexandru Routes and trajectories. (English summary) (*see* **2004h:68006**)

Mateus, Paulo *see* **Hermida, Claudio, 2004m:68173**

Matsumoto, Satoshi *see* **Kato, Hirotaka, 2004m:68115**

Matz, Oliver (*with* Schweikardt, Nicole; Thomas, Wolfgang) The monadic quantifier alternation hierarchy over grids and graphs. (English summary) **2004f:03061**

Maurel, Denis Electronic dictionaries and acyclic finite-state automata: a state of the art. (English summary) (*see* **2004i:00018**)

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Mayr, Richard *see* **Bouajjani, Ahmed et al., 2004h:68078** *and* **Kučera, Antonín[2]**

Mazala, René Infinite games.

Mazoyer, Jacques *see* **Delorme, Marianne, 2004h:68091**

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— (*with* Kolář, Dušan) Descriptional complexity of multi-parallel grammars with respect to the number of nonterminals. (English summary) (*see* **2004i:00018**)
— Coincidental extension of scattered context languages. (English summary) **2004e:68050a**
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Megretskiĭ, A. V. Robustness of finite state automata. (English summary) **2004j:93069**
Mereghetti, Carlo *see* **Bertoni, Alberto et al.**, (**2004j:68010**)
Meyer, John-Jules Ch. *see* **Broersen, Jan et al.**, **2004i:68199**
Michos, Ioannis *see* **Krob, Daniel et al.**, (**2004j:68020**)
Mignosi, Filippo *see* **Gabriele, Alessandra et al.**, (**2004j:68002**)
Milo, Tova (*with* Suciu, Dan; Vianu, Victor) Typechecking for XML transformers. (English summary) **2004e:68116**
Mirica-Ruse, Mihaela *see* **Della Dora, Jean**
Mitrana, Victor *see* **Kudlek, Manfred et al.**, **2004b:68080**; (**2004k:68009**); **Grammars and automata for string processing**, **2004i:00018**; **Atanasiu, Adrian et al.**, **2004j:68120** *and* **Ilie, Lucian**, (**2004i:00018**)
Miyahara, Tetsuhiro *see* **Suzuki, Yusuke[2] et al.**
Moller, Faron *see* **Jančar, Petr et al.**, **2004a:68036** *and* **2004k:68110**
Monniaux, David Abstracting cryptographic protocols with tree automata. (English summary) **2004f:94071**
Mordeson, John N. (*with* Malik, Davender S.) ★ Fuzzy automata and languages. (English summary) **2004a:68001**
Morin, Rémi Recognizable sets of message sequence charts. (English summary) **2004m:68165**
— *see also* **Fanchon, Jean**, (**2004j:68004**)
Moriya, Tetsuo A note on parses of codes. (English summary) (*see* **2004d:00021**)
Morokhovets, M. K. *see* **Vershinin, K. P. et al.**, **2004j:68159**
Muchnik, An. A. (*with* Semenov, Aleksei L′vovich; Ushakov, M.) Almost periodic sequences. (English summary) **2004f:03081**
Mukherji, Proshanto *see* **Hemaspaandra, Lane A. et al.**, (**2004j:68010**)
Mukouchi, Yasuhito (*with* Sato, Masako) Refutable language learning with a neighbor system. (English summary) **2004d:68138**
Munro, J. Ian *see* **Demaine, Erik D. et al.**, **2004d:68044**
Nehaniv, Chrystopher L. *see* **Dömösi, Pál et al.**, **2004b:68108**
(Néraud, Jean) *see* **Words**
Nerode, Anil *see* **Khoussainov, Bakhadyr**, **2004e:03073**
Neven, Frank Automata, logic, and XML. (English summary) **2004m:03147**
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Nguyen Huong Lam Completing comma-free codes. (English summary) **2004h:94038**
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Niehren, Joachim (*with* Priesnitz, Tim) Non-structural subtype entailment in automata theory. (English summary) **2004k:68023**
Niemann, Gundula (*with* Waldmann, Johannes) Some regular languages that are Church-Rosser congruential. (English summary) **2004a:68055**
Nießner, Frank Nondeterministic tree automata.
Nivat, Maurice *see* **Girault-Beauquier, Danièle**, **2004e:52022**
Niwiński, Damian μ-calculus via games (extended abstract). (*see* **2004j:68008**)
— *see also* **Knapik, Teodor et al.**, **2004a:03020**
Novotný, Miroslav Construction of pure grammars. (English summary) **2004f:68064**
— *see also* **Kopeček, Ivan**, **2004g:68172**
Nowotka, Dirk *see* **Harju, Tero**, (**2004j:68010**)
Obaidat, M. S. (*with* Papadimitriou, G. I.; Pomportsis, A. S.) Efficient fast learning automata. (English summary)
Obtułowicz, Adam *see* **Freund, Rudolf J. et al.**, (**2004j:68010**)
Oddoux, Denis *see* **Gastin, Paul**, (**2004j:68007**)
Okawa, Satoshi *see* **Hirose, Sadaki**, (**2004i:00018**)
Okhotin, Alexander Conjunctive grammars and systems of language equations. (Russian. Russian summary) **2004g:68076**
— Boolean grammars. (English summary) (*see* **2004j:68010**)
— On the complexity of the string generation problem. (Russian. Russian summary) **2004k:68070**
— The hardest linear conjunctive language. (English summary) **2004c:68062**
— On the closure properties of linear conjunctive languages. (English summary) **2004b:68082**
Oncina, Jose *see* **de la Higuera, Colin**, (**2004j:68006**)
Orlov, V. A. Complexity of implementing functions of k-valued logic by circuits and formulas in functionally complete bases. (English summary)
Orman, Gabriel V. On the complexity of some discrete time systems. (English summary) **2004d:60194**
Palano, Beatrice *see* **Bertoni, Alberto et al.**, (**2004j:68010**)
Papadimitriou, G. I. *see* **Obaidat, M. S. et al.**
Paskevich, Andriĭ Yu. *see* **Vershinin, K. P. et al.**, **2004j:68159**
Pattisina, Ronny (*with* Vajnovszki, Vincent) On the reconstruction of a Motzkin tree from its code. (English summary) **2004i:68175**
Păun, Andrei *see* **Ionescu, Mihai et al.**, **2004m:68046**
Păun, Gheorghe ★ Membrane computing. **2004i:68001**
— *see also* **Martín-Vide, Carlos et al.**, **2004b:68047**; **2004i:00018**; **Csuhaj-Varjú, Erzsébet et al.**, **2004d:68065**; **Grammars and automata for string processing**, **2004i:00018**; **Ionescu, Mihai et al.**, **2004m:68046** *and* **Freund, Rudolf J. et al.**, (**2004j:68010**)
Pazos, Juan *see* **Martín-Vide, Carlos et al.**, **2004b:68047**
Pelc, Andrzej *see* **Czyzowicz, Jurek et al.**, (**2004j:68013**)
Peled, Doron (*with* Vardi, Moshe Y.; Yannakakis, Mihalis) Black box checking. (English summary) **2004g:68112**
Peltier, Nicolas Model building with ordered resolution: extracting models from saturated clause sets. (English summary) **2004h:03020**
Penczek, Wojciech *see* **Dembiński, Piotr et al.**, **2004i:68136** *and* **Woźna, Bożena et al.**, **2004i:68141**
Peter, Manfred The asymptotic distribution of elements in automatic sequences. (English summary) **2004a:11019**
Petersen, Holger The membership problem for regular expressions with intersection is complete in LOGCFL. (English summary) **2004m:68077**
Petit, Antoine *see* **Bouyer, Patricia et al.**, **2004h:68087**
Petković, Tatjana *see* **Popović, Žarko et al.**, **2004j:68125**
Phoha, Shashi *see* **Ray, Asok et al.**, **2004h:93123** *and* **2004m:93086**
Piazza, Carla *see* **Dovier, Agostino et al.**, (**2004j:68007**)
Pierce, Benjamin C. *see* **Hosoya, Haruo**
(Pin, Jean-Éric) *see* **Semigroups, algorithms, automata and languages**, **2004g:20002**
Pinzani, Renzo *see* **Duchi, Enrica et al.**, **2004e:11011**
Pippenger, Nicholas *see* **Brodsky, Alex**, **2004h:68037**
Plandowski, Wojciech *see* **Karhumäki, Juhani et al.**, **2004b:68174** *and* **2004g:68136**
Podolak, Anna *see* **Fraczak, Wojciech**, **2004j:68123**
Policriti, Alberto *see* **Dovier, Agostino et al.**, (**2004j:68007**)
Pólrola, Agata *see* **Dembiński, Piotr et al.**, **2004i:68136**
Pomportsis, A. S. *see* **Obaidat, M. S. et al.**
Popović, Žarko (*with* Bogdanović, Stojan; Petković, Tatjana; Ćirić, Miroslav) Generalized directable automata. (English summary) **2004j:68125**
Pradella, Matteo *see* **Crespi-Reghizzi, Stefano**, (**2004j:68010**)
Priesnitz, Tim *see* **Niehren, Joachim**, **2004k:68023**
Prodinger, Helmut *see* **Heuberger, Clemens**, **2004a:68172**
Qian, Le Qiu *see* **Zhang, Yong et al.**
Qiu, Dao Wen Quantum pushdown automata. (English summary) **2004f:81058**
— Characterizations of quantum automata. (Chinese. English and Chinese summaries) **2004f:81059**
Ravi, S. S. *see* **Barrett, Christopher L. et al.**, **2004b:68061**
Ray, Asok (*with* Surana, Amit; Phoha, Shashi) A language measure for supervisory control. (English summary) **2004h:93123**
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Reichel, Bernd *see* **Bordihn, Henning**, **2004f:68055** *and* **Descriptional complexity of automata, grammars and related structures**
Reidenbach, Daniel A negative result on inductive inference of extended pattern languages. (English summary)
Remmel, Jeffrey B. *see* **Czenzer, Douglas**, **2004j:03050**
Restivo, Antonio (*with* Salemi, Sergio) Words and patterns. (English summary) **2004a:68123**
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— *see also* **Gabriele, Alessandra et al.**, (**2004j:68002**)
Rhodes, John L. *see* **Dömösi, Pál et al.**, **2004b:68108**
Rigo, Michel *see* **Grabner, Peter J.**, **2004i:11004**
de Rijke, Maarten *see* **Alechina, Natasha et al.**, **2004k:68036**
Rinaldi, Simone *see* **Duchi, Enrica et al.**, **2004e:11011**
Rodríguez-Patón, Alfonso *see* **Martín-Vide, Carlos et al.**, **2004b:68047** *and* **Maté, José L. et al.**, **2004i:68061**
Rogers, James Syntactic structures as multi-dimensional trees. (English summary) **2004j:68171**
— wMSO theories as grammar formalisms. (English summary) **2004k:03077**
Rohde, Philipp Expressive power of monadic second-order logic and modal μ-calculus.
Rondón, Juan E. *see* **De Sarrazin, Gisela**, **2004f:93089**
Rosenkrantz, Daniel J. *see* **Barrett, Christopher L. et al.**, **2004b:68061**
de Rougemont, Michel *see* **Leiß, Hans**, **2004m:68041**
Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej**, **2004c:68031** *and* **Formal and natural computing**, **2004j:00032**
Rubin, Sasha *see* **Khoussainov, Bakhadyr**, **2004f:03074**
Rudolf, Gábor On the sharpness and generalizations of the Fine-Wilf periodicity theorem. (English summary) **2004f:68124**
Ruškuc, Nik *see* **Albert, Michael H. et al.**, **2004d:68106**
Rytter, Wojciech Application of Lempel-Ziv factorization to the approximation of grammar-based compression. (English summary)
— *see also* **Karhumäki, Juhani et al.**, **2004b:68174** *and* **Czyzowicz, Jurek et al.**, (**2004j:68013**)
Saitou, Kazuhiro Conformational switching as assembly instructions in self-assembling mechanical systems. (English summary) (*see* **2004i:00015**)
Salemi, Sergio *see* **Restivo, Antonio**, **2004a:68123** *and* (**2004j:00032**)
(Salomaa, Arto) *see* **Formal and natural computing**, **2004j:00032**
Samoĭlov, V. G. *see* **Kupriyanova, L. V. et al.**, **2004b:65062**
San Pietro, Pierluigi *see* **Ibarra, Oscar H. et al.**, **2004g:68109**
Santone, Antonella *see* **Barbuti, Roberto et al.**
Sato, Masako *see* **Mukouchi, Yasuhito**, **2004d:68138** *and* **Uemura, Jin**
Satta, Giorgio *see* **Amir, Amihood et al.**, **2004i:68239**
Sattler, Ulrike *see* **Demri, Stéphane**, **2004f:68040**
Sawa, Zdeněk *see* **Jančar, Petr et al.**, **2004a:68036** *and* **2004k:68110**
Schlage-Puchta, Jan-Christoph A criterion for non-automaticity of sequences. (English summary) **2004m:11033**
Schneider, Gerardo *see* **Asarin, E. A.**, (**2004j:68004**)
Schneider, Karl-Michael Tabular parsing and algebric transformations. (English summary) **2004b:68157**
Schnoebelen, Ph. *see* **Markey, Nicolas**, **2004k:68059**
Schott, René (*with* Spehner, Jean-Claude) Two optimal parallel algorithms on the commutation class of a word (extended abstract). (English summary) (*see* **2004h:68006**)
Schuller, Rebecca A. *see* **Etessami, Kousha et al.**
Schweikardt, Nicole *see* **Matz, Oliver et al.**, **2004f:03061**
Schwentick, Thomas *see* **Eiter, Thomas et al.**, **2004a:68041** *and* **Neven, Frank**, **2004g:03062**
Schwer, Sylviane R. *see* **Autebert, Jean-Michel et al.**, **2004d:05008**
Schwoon, Stefan *see* **Holzer, Markus**
Sciortino, Marinella *see* **Gabriele, Alessandra et al.**, (**2004j:68002**)
Séébold, Patrice On some generalizations of the Thue-Morse morphism. (English summary) **2004c:68118**

Segala, Roberto *see* **Lynch, Nancy et al., 2004h:68084**
Selivanov, V. L. Wadge degrees of ω-languages of deterministic Turing machines. (English summary) **2004e:03080**
Semenov, Aleksei L'vovich *see* **Muchnik, An. A. et al., 2004f:03081**
Shallit, Jeffrey *see* **Allouche, Jean-Paul, 2004k:11028** *and* **2004m:68172**
Shoudai, Takayoshi *see* **Suzuki, Yusuke[2] et al.**
Silva, Andrés *see* **Maté, José L. et al., 2004i:68061**
(Silva, Pedro V.) *see* **Semigroups, algorithms, automata and languages, 2004g:20002**
Silvestrova, E. D. Adaptive linear stochastic automata in random media. (English summary) **2004m:60156**
Siwak, Paweł Filtrons of automata. (English summary) **2004m:37023**
Sohoni, Milind *see* **Adsul, Bharat, 2004k:68102**
Sokratova, O. V. *see* **Kelarev, Andrei, 2004c:68088**
Somenzi, Fabio *see* **Gurumurthy, Sankar et al.**
Sosík, Petr The power of catalysts and priorities in membrane systems. (English summary) **2004e:68032**
Soufi, Loutfi Languages and problem specification. (English summary) (*see* **2004i:00018**)
Spathopoulos, Michael P. On a simplified untiming procedure for supervisory control of timed automata when the time increases strictly monotonically. (English summary) **2004j:93076**
Spehner, Jean-Claude *see* **Schott, René, (2004h:68006)**
Speranskiĭ, D. V. *see* **Kupriyanova, L. V. et al., 2004b:65062**
Spiegler, Ran Simplicity of beliefs and delay tactics in a concession game. (English summary) **2004k:91015**
Srivastava, Arun Kumar[2] (*with* Tiwari, S. P.) On relationships among fuzzy approximation operators, fuzzy topology, and fuzzy automata. (English summary) **2004h:68088**
Stearns, Richard E. *see* **Barrett, Christopher L. et al., 2004b:68061**
Stefanov, Valeri T. *see* **Crochemore, Maxime, 2004d:68173**
Steffen, Martin *see* **Dams, Dennis et al., (2004j:68007)**
Steinberg, Benjamin *see* **Margolis, Stuart W., 2004m:20109**
Stiebe, Ralf *see* **Fernau, Henning**
Stirling, Colin Bisimulation and language equivalence. (English summary) **2004i:68170**
Straubing, Howard (*with* Thérien, Denis) Weakly iterated block products of finite monoids. (English summary) **2004b:68109**
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Subramanian, K. G. *see* **Ceterchi, Rodica et al., 2004k:68044**
Suciu, Dan *see* **Milo, Tova et al., 2004e:68116**
Sullivan, Peggy Cut, paste and filter. (English summary) **2004i:68064**
Surana, Amit *see* **Ray, Asok et al., 2004h:93123**
Suzuki, Yusuke[2] (*with* Shoudai, Takayoshi; Uchida, Tomoyuki; Miyahara, Tetsuhiro) Ordered term tree languages which are polynomial time inductively inferable from positive data. (English summary)
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Tantau, Till *see* **Hemaspaandra, Lane A. et al., (2004j:68010)**
Tesei, Luca *see* **Barbuti, Roberto et al., 2004m:68151**
Tesson, Pascal (*with* Thérien, Denis) The computing power of programs over finite monoids. (English summary) **2004j:68126**
Thérien, Denis *see* **Straubing, Howard, 2004b:68109**; **Bouyer, Patricia et al., 2004h:68087** *and* **Tesson, Pascal, 2004j:68126**
Theys, Jacques *see* **Blondel, Vincent D. et al., 2004g:15010**
Thomas, Wolfgang *see* **Carton, Olivier, 2004d:03088**; **Matz, Oliver et al., 2004f:03061**; **Cachat, Thierry et al., 2004m:03144** *and* **Wallmeier, Nico et al., (2004j:68014)**
Tiede, Hans-Joerg Proof tree automata. (English summary) **2004f:68161**
Tini, Simone *see* **Lanotte, Ruggero et al., 2004j:68134**
Ţiplea, Ferucio Laurenţiu (*with* Mäkinen, Erkki) A note on SE-systems and regular canonical systems. (English summary) **2004f:68067**
— (*with* Mäkinen, Erkki; Trincă, Dragos; Enea, Costel) Characterization results for time-varying codes. (English summary) **2004j:94018**
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Tiwari, S. P. *see* **Srivastava, Arun Kumar[2], 2004h:68088**
Touili, Tayssir *see* **Bouajjani, Ahmed et al., 2004h:68095**
Trakhtman, Avraam N. The identities of local threshold testability. (English summary) **2004k:20121**
Treur, Jan *see* **Engelfriet, Joeri, 2004d:68085**
Trincă, Dragos *see* **Ţiplea, Ferucio Laurenţiu et al., 2004j:94018**
Trotter, Peter G. *see* **Kelarev, Andrei, 2004k:20139**
Turán, György *see* **Grohe, Martin, 2004m:68111**
Uchida, Tomoyuki *see* **Suzuki, Yusuke[2] et al.**
Uemura, Jin (*with* Sato, Masako) Compactness and learning of classes of unions of erasing regular pattern languages. (English summary)
Urzyczyn, Paweł *see* **Knapik, Teodor et al., 2004a:03020**
Ushakov, M. *see* **Muchnik, An. A. et al., 2004f:03081**
Ushio, Toshimitsu *see* **Takai, Shigemasa, 2004h:93125**
Vaandrager, Frits *see* **Lynch, Nancy et al., 2004h:68084**
Vajnovszki, Vincent *see* **Pattissina, Ronny, 2004i:68175**
Vardi, Moshe Y. *see* **Peled, Doron et al., 2004g:68112**
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Vianu, Victor *see* **Milo, Tova et al., 2004e:68116**
Viglas, Anastasios *see* **Karakostas, George et al., 2004c:68039**
Vilares Ferro, Manuel *see* **Alonso Pardo, Miguel Á. et al., (2004j:68013)**
Villadangos, J. *see* **Astrain, J. J. et al.**
Vincent, Aymeric *see* **Arnold, André et al., 2004h:93121**
Vladimirov, A. A. *see* **Blondel, Vincent D. et al., 2004g:15010**
Vogler, Heiko *see* **Fülöp, Zoltán, 2004c:68087** *and* **Weighted automata: theory and applications**
Vollmer, Heribert Complexity theory made easy. The formal language approach to the definition of complexity classes. (English summary) (*see* **2004j:68010**)
Vulanović, Relja Grammar efficiency and complexity. (English summary)
Waldmann, Johannes *see* **Niemann, Gundula, 2004a:68055**
Wallmeier, Nico (*with* Hütten, Patrick; Thomas, Wolfgang) Symbolic synthesis of finite-state controllers for request-response specifications. (English summary) (*see* **2004j:68014**)
van der Walt, Andries (*with* Ewert, Sigrid) A property of random context picture grammars. (English summary) **2004c:68063**
Walukiewicz, Igor *see* **Arnold, André et al., 2004h:93121** *and* **Bernet, Julien et al., 2004j:68112**
Wang, Farn (*with* Yen, Hsu-Chun) Timing parameter characterization of real-time systems. (English summary) (*see* **2004j:68014**)
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Wang, Yi[4] (*with* Jiang, Zhi-Song) Evolution complexity of the elementary cellular automaton of rule 22. (English summary) **2004i:37025**
Wang, Yuan Feng *see* **Zhang, Yong et al.**
Wätjen, Dietmar Remarks on simple eco-grammar systems with prescribed teams. (English summary) **2004f:68069**
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Watson, Richard E. *see* **Watson, Bruce W., 2004i:68243**
Wennekers, Thomas (*with* Ay, Nihat) Temporal infomax on Markov chains with input leads to finite state automata. (English summary) (*see* **2004e:92001**)
Wich, Klaus Universal inherence of cycle-free context-free ambiguity functions. (English summary)
Wieringa, Roel *see* **Broersen, Jan et al., 2004i:68199**
Wilke, Thomas *see* **Etessami, Kousha et al.**
Woinowski, Jens R. The context-splittable normal form for Church-Rosser language systems. (English summary) **2004f:68070**
Wonham, W. M. *see* **Gohari, Peyman, 2004c:93075**
(Wood, Derick) *see* **Implementation and application of automata, 2004j:68012**
(Wotschke, Detlef) *see* **Descriptional complexity of automata, grammars and related structures**
Woźna, Bożena (*with* Zbrzezny, Andrzej; Penczek, Wojciech) Checking reachability properties for timed automata via SAT. (English summary) **2004i:68141**
Wu, Min[2] *see* **Xu, De Zhi**
Xu, De Zhi (*with* Wu, Min[2]) Research on XML automaton build and implementation. (Chinese. English and Chinese summaries)
Yamaguchi, Kazunori[1] *see* **Yamamoto, Atsushi**
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Yannakakis, Mihalis *see* **Peled, Doron et al., 2004g:68112**
Yao, Gang Decomposing a kind of weakly invertible finite automata with delay 2. (English summary) **2004d:68032**
Yao, Jia-Yan Some properties of Ising automata. (English summary) **2004k:68116**
Yen, Hsu-Chun *see* **Verification and analysis of infinite state systems** *and* **Wang, Farn, (2004j:68014)**
Yokomori, Takashi Polynomial-time identification of very simple grammars from positive data. (English summary) **2004d:68064**
Yu, Shyr-Shen *see* **Huang, Cheng Chih, 2004d:68130**
Zamboni, Luca Q. *see* **Jenkinson, Oliver, 2004h:68110**
Zappe, Júlia Modal μ-calculus and alternating tree automata.
Zbrzezny, Andrzej *see* **Woźna, Bożena et al., 2004i:68141**
Žemlička, Michal *see* **Král, Jaroslav, (2004i:00018)**
Zhang, Yong (*with* Qian, Le Qiu; Wang, Yuan Feng) Automatic testing data generation in the testing based on EFSM. (Chinese. English and Chinese summaries)
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Conference:
Implementation and Application of Automata (CIAA 2002) ★ Selected papers from CIAA 2002.
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Developments in language theory ★ Developments in language theory. **2004j:68010**
Dresden ★ Logic and algebra for concurrency.
— ★ Weighted automata: theory and applications.
Formal and natural computing ★ Formal and natural computing. **2004j:00032**
Grammars and automata for string processing ★ Grammars and automata for string processing. **2004i:00018**
Implementation and application of automata ★ Implementation and application of automata. **2004j:68012**
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— ★ Implementation and application of automata. **2004j:68012**
— ★ Developments in language theory. **2004j:68010**
— ★ Implementation and application of automata. **2004j:68013**
— ★ Implementation and application of automata. **2004j:68014**
Logic and algebra for concurrency ★ Logic and algebra for concurrency.
Pretoria ★ Implementation and application of automata. **2004j:68012**
— ★ Implementation and application of automata.
Santa Barbara, CA ★ Implementation and application of automata. **2004j:68014**
Semigroups, algorithms, automata and languages ★ Semigroups, algorithms, automata and languages. **2004g:20002**
Szeged ★ Developments in language theory. **2004j:68010**
Tours ★ Implementation and application of automata. **2004j:68013**
— ★ Selected papers from CIAA 2002.
Verification and analysis of infinite state systems ★ Verification and analysis of infinite state systems.
Vienna ★ Descriptional complexity of automata, grammars and related structures.
Weighted automata: theory and applications ★ Weighted automata: theory and applications.
Words ★ Words.
Words, languages & combinatorics ★ Words, languages & combinatorics III. **2004h:68006**

68Q55 Semantics [see also 03B70, 06B35, 18C50]

Abramsky, Samson Algorithmic game semantics: a tutorial introduction. **2004h:68076**
Adámek, Jiří On final coalgebras of continuous functors. (English summary) **2004f:68086**
Alessi, Fabio (*with* Baldan, Paolo; Honsell, Furio) A category of compositional domain-models for separable Stone spaces. (English summary) **2004g:68102**
Anderlik, Alexa (*with* Haveraaen, Magne) On the category of data dependency algebras and embeddings. (English and Estonian summaries) **2004m:68145**
Awodey, Steven (*with* Hughes, Jesse) Modal operators and the formal dual of Birkhoff's completeness theorem. (English summary) **2004e:68061**
de Azevedo Spinola, Ana Isabel (*with* Haeusler, Edward Hermann) Anticipatory topoi. (English summary) (*see* **2004d:00014**)
Baldan, Paolo *see* **Alessi, Fabio et al., 2004g:68102**
Bertot, Yves (*with* Capretta, Venanzio; Das Barman, Kuntal) Type-theoretic functional semantics. (English summary) (*see* **2004k:68010**)
Bruni, Roberto (*with* Laneve, Cosimo; Montanari, Ugo) Orchestrating transactions in join calculus. (English summary) (*see* **2004j:68004**)
Bueno, F. *see* **Hermenegildo, M. et al.**
Callejas Bedregal, B. R. *see* **Callejas-Bedregal, R., 2004g:68103**
Callejas-Bedregal, R. (*with* Callejas Bedregal, B. R.) Intervals as a domain constructor. (English and Portuguese summaries) **2004g:68103**
Capretta, Venanzio *see* **Bertot, Yves et al., (2004k:68010)**
Chen, Yi Xiang Topological semantics of predicate transformers. (Chinese. English and Chinese summaries) **2004d:68082**
Chen, Yifeng A fixpoint theory for non-monotonic parallelism. (English summary) **2004j:68109**
Chu, Lei Lei (*with* Xu, Zong Ben) Method of dynamical systems to research component reference semantics. (Chinese. English and Chinese summaries)
Das Barman, Kuntal *see* **Bertot, Yves et al., (2004k:68010)**
Fidge, Colin *see* **Lermer, Karl, 2004e:68063**
Fokkink, Willem Jan (*with* Vu, Thuy Duong) Structural operational semantics and bounded nondeterminism. (English summary) **2004e:68062**
Führmann, Carsten (*with* Thielecke, Hayo) On the call-by-value CPS transform and its semantics. (English summary) **2004i:68129**
Haeusler, Edward Hermann *see* **de Azevedo Spinola, Ana Isabel, (2004d:00014)**
Hansen, René Rydhof *see* **Nielson, Flemming et al., 2004f:68088**
Haveraaen, Magne *see* **Anderlik, Alexa, 2004m:68145**
Hermenegildo, M. (*with* Puebla, G.; Bueno, F.; López-García, P.) Program debugging and validation using semantic approximations and partial specifications.
Honsell, Furio *see* **Alessi, Fabio et al., 2004g:68102**
Hughes, Jesse *see* **Awodey, Steven, 2004e:68061**
Jacobs, Bart (*with* Poll, Erik) Coalgebras and monads in the semantics of Java. (English summary) **2004d:68083**
Jin, Cheng Zhi *see* **Lü, Jiang Hua**
Jones, Cliff B. Operational semantics: concepts and their expression.
Jung, Achim *see* **Moshier, M. Andrew, 2004m:68147**
Kristiansen, Lars (*with* Voda, Paul J.) Complexity classes and fragments of C. **2004j:68110**
Laird, James Bistability: an extensional characterization of sequentiality. (English summary) **2004m:68146**
Laneve, Cosimo *see* **Bruni, Roberto et al., (2004j:68004)**
Lermer, Karl (*with* Fidge, Colin) A formal model of real-time program compilation. (English summary) **2004e:68063**
Levy, Paul Blain (*with* Power, John; Thielecke, Hayo) Modelling environments in call-by-value programming languages. (English summary) **2004f:68087**
Linde, Ģirts The cartoon method of semantics definition for modeling languages. (English and Latvian summaries)
López-García, P. *see* **Hermenegildo, M. et al.**
Lü, Jiang Hua (*with* Jin, Cheng Zhi) Reflection in monads. (Chinese. English and Chinese summaries)
Martin, Keye (*with* Mislove, Michael; Worrell, James) Measuring the probabilistic powerdomain. (English summary)
— The informatic derivative at a compact element. (English summary) **2004b:68101**
Mason, Ian A. (*with* Talcott, Carolyn L.) Feferman-Landin logic. (English summary) **2004j:68111**
Miller, Dale A. (*with* Tiu, Alwen) Encoding generic judgments. (English summary) **2004k:68100**
Mislove, Michael *see* **Martin, Keye et al.**
Montanari, Ugo *see* **Bruni, Roberto et al., (2004j:68004)**
Moshier, M. Andrew (*with* Jung, Achim) A logic for probabilities in semantics. (English summary) **2004m:68147**
Nielson, Flemming (*with* Hansen, René Rydhof; Nielson, Hanne Riis) Abstract interpretation of mobile ambients. (English summary) **2004f:68088**
Nielson, Hanne Riis *see* **Nielson, Flemming et al., 2004f:68088**
Plotkin, Gordon (*with* Power, John) Notions of computation determine monads. (English summary) **2004a:68084**
Poll, Erik *see* **Jacobs, Bart, 2004d:68083**
Power, John *see* **Plotkin, Gordon, 2004a:68084** *and* **Levy, Paul Blain et al., 2004f:68087**
Priestley, Hilary A. Ordered sets and complete lattices. A primer for computer science. (English summary) (*see* **2004d:68001**)
Puebla, G. *see* **Hermenegildo, M. et al.**
Resende, Pedro (*with* Vickers, Steven) Localic sup-lattices and tropological systems. (English summary) **2004i:68130**
Salibra, Antonino Topological incompleteness and order incompleteness of the lambda calculus. (English summary) **2004g:68104**
Talcott, Carolyn L. *see* **Mason, Ian A., 2004j:68111**
Tchier, F. Demonic semantics: using monotypes and residuals. (English summary) **2004m:68148**
Thielecke, Hayo *see* **Levy, Paul Blain et al., 2004f:68087** *and* **Führmann, Carsten, 2004i:68129**
Tiu, Alwen *see* **Miller, Dale A., 2004k:68100**
Vickers, Steven *see* **Resende, Pedro, 2004i:68130**
Voda, Paul J. *see* **Kristiansen, Lars, 2004j:68110**
Vu, Thuy Duong *see* **Fokkink, Willem Jan, 2004e:68062**
Wang, Ge Ping *see* **Zhou, Li Tao**
Worrell, James *see* **Martin, Keye et al.**
Xu, Zong Ben *see* **Chu, Lei Lei**
Zhou, Li Tao (*with* Wang, Ge Ping) Extension theorems on domains. (Chinese. English and Chinese summaries)

Items with secondary classifications in 68Q55

Adámek, Jiří (*with* Milius, Stefan; Velebil, Jiří) Free iterative theories: a coalgebraic view. (English summary) **2004f:18006**
Alessi, Fabio *see* **Dezani-Ciancaglini, Mariangiola et al., 2004b:03026**
Arenas, Marcelo (*with* Bertossi, Leopoldo; Chomicki, Jan) Answer sets for consistent query answering in inconsistent databases. (English summary) **2004i:68021**
Awodey, Steven (*with* Birkedal, Lars; Scott, Dana S.) Local realizability toposes and a modal logic for computability. (English summary) **2004a:03078**
(Backhouse, Roland) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
Baeten, J. C. M. (*with* de Vink, E. P.) Axiomatizing GSOS with termination. (English summary) **2004m:68174**
Bagnara, Roberto *see* **Zaffanella, Enea et al., 2004f:68014** *and* **Hill, Patricia M. et al., 2004m:68019**
Baier, Christel (*with* Kwiatkowska, Marta) Domain equations for probabilistic processes. (English summary) **2004d:68097**
Balduccini, Marcello (*with* Gelfond, Michael) Diagnostic reasoning with A-prolog. (English summary) **2004i:68211**
Banerjee, Anindya[2] (*with* Jensen, Thomas P.) Modular control-flow analysis with rank 2 intersection types. (English summary) **2004d:68014**
Bartels, Falk Generalised coinduction. (English summary) **2004f:18007**
Bertossi, Leopoldo *see* **Arenas, Marcelo et al., 2004i:68021**
Birkedal, Lars *see* **Awodey, Steven et al., 2004a:03078**
Bono, Viviana (*with* Tiuryn, Jerzy) Products and polymorphic subtypes. (English summary) **2004i:68032**
Borzyszkowski, Tomasz Logical systems for structured specifications. (English summary) **2004g:68114**
Bournez, Olivier (*with* Hoyrup, Mathieu) Rewriting logic and probabilities. (English summary)
Bozga, Marius *see* **Fernandez, Jean-Claude et al., 2004f:68092**
Bozzano, Marco (*with* Delzanno, Giorgio; Martelli, Maurizio) An effective fixpoint semantics for linear logic programs. (English summary) **2004f:68009**
van Breugel, Franck De Bakker-Zucker processes revisited. (English summary) **2004i:18008**
Brookes, Stephen Traces, pomsets, fairness and full abstraction for communicating processes. (English summary) (*see* **2004j:68004**)
Brucker, Achim D. (*with* Wolff, Burkhart) Using theory morphisms for implementing formal methods tools. (English summary)
Bruynooghe, Maurice *see* **Vanhoof, Wim et al., (2004k:68006)**
Bucalo, Anna (*with* Führmann, Carsten; Simpson, Alex) An equational notion of lifting monad. (English summary) **2004b:18012**
Buccafurri, Francesco (*with* Faber, Wolfgang; Leone, Nicola) Disjunctive logic programs with inheritance. (English summary) **2004g:68012**
Buscemi, Maria Grazia (*with* Montanari, Ugo) A first order coalgebraic model of π-calculus early observational equivalence. (English summary) (*see* **2004j:68004**)
Carbunar, Bogdan (*with* Tulio Valente, Marco; Vitek, Jan) Coordination and mobility in CoreLime. (English summary)
Cenciarelli, Pietro Configuration theories. (English summary) **2004m:68176**
Chomicki, Jan *see* **Arenas, Marcelo et al., 2004i:68021**
Coquand, Thierry (*with* Takeyama, Makoto) An implementation of type:type. (English summary) (*see* **2004j:68022**)
Corradini, Flavio (*with* Di Cola, Dino) The expressive power of urgent, lazy and busy-waiting actions in timed processes. (English summary) **2004i:68156**
Costa, Simone A. *see* **Menezes, P. Blauth et al., (2004d:00014)**
(Crole, Roy L.) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
Curien, P.-L. Symmetry and interactivity in programming. (English summary) **2004g:03052**

Dawar, Anuj (*with* Richerby, David) Fixed-point logics with nondeterministic choice. (English summary) **2004m:68081**
Delzanno, Giorgio *see* **Bozzano, Marco et al., 2004f:68009**
De Marchi, Federico *see* **Ghani, Neil et al., 2004f:18008**
Desharnais, Josée (*with* Gupta, Vineet; Jagadeesan, Radha; Panangaden, Prakash) Approximating labelled Markov processes. (English summary) **2004c:68096**
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Di Cola, Dino *see* **Corradini, Flavio, 2004i:68156**
Doberkat, Ernst-Erich Pipelines: modelling a software architecture through relations. (English summary) **2004g:68106**
Ebrahimi, M. Mehdi (*with* Mahmoudi, Mojgan) Flat and weakly flat projection algebras. (English summary) **2004b:18007**
Eiter, Thomas (*with* Faber, Wolfgang; Leone, Nicola; Pfeifer, Gerald) Computing preferred answer sets by meta-interpretation in answer set programming. (English summary) **2004i:68023**
Erdem, Esra (*with* Lifschitz, Vladimir) Tight logic programs. (English summary) **2004i:68024**
Eshuis, Rik (*with* Fokkinga, Maarten M.) Comparing refinements for failure and bisimulation semantics. (English summary) **2004g:68121**
Faber, Wolfgang *see* **Buccafurri, Francesco et al., 2004g:68012** *and* **Eiter, Thomas et al., 2004i:68023**
Fernandez, Jean-Claude (*with* Bozga, Marius; Ghirvu, Lucian) State space reduction based on live variables analysis. (English summary) **2004f:68092**
Fernández, Maribel (*with* Severi, Paula) An operational approach to program extraction in the calculus of constructions. (English summary) (*see* **2004k:68006**)
— (*with* Mackie, Ian) Operational equivalence for interaction nets. (English summary) **2004d:68086**
Ferrari, Gianluigi (*with* Moggi, Eugenio; Pugliese, Rosario) MetaKlaim: a type safe multi-stage language for global computing. (English summary)
Fischbach, Adam (*with* Hannan, John) Specification and correctness of lambda lifting. (English summary) **2004f:68016**
Fokkinga, Maarten M. *see* **Eshuis, Rik, 2004g:68121**
Fokkink, Willem Jan (*with* van Glabbeek, Rob; de Wind, Paulien) Compositionality of Hennessy-Milner logic through structural operational semantics. (English summary)
Führmann, Carsten *see* **Bucalo, Anna et al., 2004b:18012**
Fujita, Ken-Etsu An injective CPS-translation for the extensional λ-calculus. (English summary) **2004d:68015**
— Continuation semantics and CPS-translation of $\lambda\mu$-calculus. (English summary) **2004b:68024**
Furfaro, Filippo (*with* Greco, Gianluigi; Greco, Sergio) Minimal founded semantics for disjunctive logic programs and deductive databases. (English summary) **2004j:68042**
Galmiche, Didier (*with* Méry, Daniel; Pym, David J.) Resource tableaux (extended abstract). (English summary) (*see* **2004j:68008**)
Galpin, Vashti A format for semantic equivalence comparison. (English summary) **2004j:68130**
Gastin, Paul (*with* Mislove, Michael) A simple process algebra based on atomic actions with resources. (English summary) **2004k:68126**
Gaucher, Philippe Automate parallèle à homotopie près. I. (English and French summaries) [Concurrent process up to homotopy. I] **2004c:55027**
Gelfond, Michael *see* **Balduccini, Marcello, 2004i:68211**
Ghani, Neil (*with* Lüth, Christoph; De Marchi, Federico; Power, John) Dualising initial algebras. (English summary) **2004f:18008**
Ghirvu, Lucian *see* **Fernandez, Jean-Claude et al., 2004f:68092**
(Gibbons, Jeremy) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
Gierz, G. (*with* Hofmann, Karl Heinrich; Keimel, K.; Lawson, Jimmie D.; Mislove, Michael; Scott, Dana S.) ★ Continuous lattices and domains. **2004h:06001**
van Glabbeek, Rob *see* **Fokkink, Willem Jan et al.**
Glauert, John *see* **Khasidashvili, Zurab**
Goubault, Éric *see* **Goubault-Larrecq, Jean, 2004g:03033**
Goubault-Larrecq, Jean (*with* Goubault, Éric) On the geometry of intuitionistic S4 proofs. (English summary) **2004g:03033**
Greco, Gianluigi *see* **Furfaro, Filippo et al., 2004j:68042**
Greco, Sergio *see* **Furfaro, Filippo et al., 2004j:68042**
Gumm, H. Peter (*with* Hughes, Jesse; Schröder, Tobias) Distributivity of categories of coalgebras. (English summary) **2004i:18006**
Gupta, Vineet *see* **Desharnais, Josée et al., 2004c:68096**
Haar, Stefan Clusters, confusion and unfoldings. (English summary) **2004i:68162**
Hannan, John *see* **Fischbach, Adam, 2004f:68016**
Heckmann, Reinhold A non-topological view of dcpos as convergence spaces. (English summary) **2004j:54016**
Heljanko, Keijo (*with* Niemelä, Ilkka) Bounded LTL model checking with stable models. (English summary) **2004i:68137**
Hennessy, Matthew A fully abstract denotational semantics for the π-calculus. (English summary) **2004e:68071**
Hermida, Claudio (*with* Mateus, Paulo) Paracategories. I. Internal paracategories and saturated partial algebras. (English summary) **2004i:18011**
Hildebrandt, Thomas T. Towards categorical models for fairness: fully abstract presheaf semantics of SCCS with finite delay. (English summary) **2004e:68072**
Hill, Patricia M. (*with* Bagnara, Roberto; Zaffanella, Enea) Soundness, idempotence and commutativity of set-sharing. (English summary) **2004m:68019**
— *see also* **Zaffanella, Enea et al., 2004f:68014**
Hirschkoff, Daniel *see* **Teller, David et al., (2004j:68004)**
Hofmann, Karl Heinrich *see* **Gierz, G. et al., 2004h:06001**
Honsell, Furio (*with* Miculan, Marino; Scagnetto, Ivan) An axiomatic approach to metareasoning on nominal algebras in HOAS. (English summary)
— *see also* **Dezani-Ciancaglini, Mariangiola et al., 2004b:03026**
Howe, Jacob M. (*with* King, Andrew Malcolm) Three optimisations for sharing. (English summary)
Hoyrup, Mathieu *see* **Bournez, Olivier**
Hughes, Jesse *see* **Gumm, H. Peter et al., 2004i:18006**
Igarashi, Atsushi (*with* Pierce, Benjamin C.) On inner classes. (English summary) **2004f:68020**
Ingólfsdóttir, Anna A semantic theory for value-passing processes based on the late approach. (English summary) **2004c:68099**
Jagadeesan, Radha *see* **Desharnais, Josée et al., 2004c:68096**
Jensen, Thomas P. *see* **Banerjee, Anindya[2], 2004d:68014**
Joachimski, Felix Syntactic analysis of η-expansions in pure type systems. (English summary) **2004j:03019**
Kamareddine, Fairouz *see* **Wells, Joe B. et al.**
Kapitonova, Yu. V. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al., 2004g:68110**
Keimel, K. *see* **Gierz, G. et al., 2004h:06001**
Khasidashvili, Zurab (*with* Glauert, John) Stable computational semantics of conflict-free rewrite systems (partial orders with duplication). (English summary)
Kick, Marco Bialgebraic modelling of timed processes. (English summary)
King, Andrew Malcolm *see* **Howe, Jacob M.**
Klaudel, Hanna (*with* Pommereau, Franck) A class of composable and preemptible high-level Petri nets with an application to multi-tasking systems. (English summary) **2004f:68109**
Kleijn, H. C. M. (*with* Koutny, Maciej) Causality semantics of Petri nets with weighted inhibitor arcs. (English summary) (*see* **2004j:68004**)
(Kopperman, Ralph D.) *see* **Topology in computer science**
Kotlyarov, Vsevolod Pavlovich *see* **Letichevskiĭ, Aleksandr Adol'fovich et al., 2004g:68110**
Kou, Hui *see* **Liang, Jihua**
Koutny, Maciej (*with* Pappalardo, Giuseppe) Behaviour abstraction for communicating sequential processes. (English summary) **2004g:68123**
— *see also* **Kleijn, H. C. M., (2004j:68004)**
Kwiatkowska, Marta *see* **Baier, Christel, 2004d:68097**
Lawson, Jimmie D. *see* **Gierz, G. et al., 2004h:06001** *and* **Domain theory, logic and computation, 2004m:68003**
Lazić, Ranko (*with* Nowak, David) On a semantic definition of data independence. (English summary) (*see* **2004j:68021**)
Le Charlier, Baudouin (*with* Rossi, Sabina; Van Hentenryck, Pascal) Sequence-based abstract interpretation of Prolog. (English summary) **2004e:68013**
Leone, Nicola *see* **Buccafurri, Francesco et al., 2004g:68012** *and* **Eiter, Thomas et al., 2004i:68023**
Letichevskiĭ, A. A., Jr. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al., 2004g:68110**
Letichevskiĭ, Aleksandr Adol'fovich (*with* Kapitonova, Yu. V.; Kotlyarov, Vsevolod Pavlovich; Letichevskiĭ, A. A., Jr.; Volkov, V. A.) Semantics of times message sequence charts. (English and Ukrainian summaries) **2004g:68110**
(Leuschel, Michael) *see* **Logic based program synthesis and transformation, 2004k:68006**
Levi, Giorgio (*with* Spoto, Fausto) Pair-independence and freeness analysis through linear refinement. (English summary) **2004b:68021**
Levy, Paul Blain Possible world semantics for general storage in call-by-value. (English summary) (*see* **2004j:68008**)
Liang, Jihua (*with* Kou, Hui) Convex power domain and Vietoris space. (English summary)
Lifschitz, Vladimir *see* **Erdem, Esra, 2004i:68024**
(Liu, Ying Ming) *see* **Domain theory, logic and computation, 2004m:68003**
Lomazova, Irina A. Nested Petri nets: multi-level and recursive systems. (English summary) **2004i:68165**
Lonc, Zbigniew (*with* Truszczyński, Mirosław) Computing stable models: worst-case performance estimates. (English summary) **2004k:68025**
Loyer, Yann (*with* Spyratos, Nicolas) Hypothesis-founded semantics for datalog programs with negation. (English summary)
(Luo, Mao Kang) *see* **Domain theory, logic and computation, 2004m:68003**
Lüth, Christoph *see* **Ghani, Neil et al., 2004f:18008**
Machado, Júlio P. *see* **Menezes, P. Blauth et al., (2004d:00014)**
Mackie, Ian *see* **Fernández, Maribel, 2004d:68086**
Mahmoudi, Mojgan *see* **Ebrahimi, M. Mehdi, 2004b:18007**
Martelli, Maurizio *see* **Bozzano, Marco et al., 2004f:68009**
Martin, Keye (*with* Mislove, Michael; Reed, G. M.) Topology and domain theory. (*see* **2004e:54001**)
— Ideal models of spaces. (English summary) **2004j:54009**
— The regular spaces with countably based models. (English summary) **2004i:54041**
Mateus, Paulo *see* **Hermida, Claudio, 2004i:18011**
Mauborgne, Laurent Infinitary relations and their representation. (English summary) **2004f:68098**
McCusker, Guy A fully abstract relational model of syntactic control of interference. (English summary) (*see* **2004j:68008**)
Mcdowell, Raymond C. (*with* Miller, Dale A.) Reasoning with higher-order abstract syntax in a logical framework. (English summary) **2004e:68066**
Melliès, Paul-André Double categories: a modular model of multiplicative linear logic. (English summary) **2004h:03124**
Menezes, P. Blauth (*with* Costa, Simone A.; Machado, Júlio P.; Ramos, Jaime) Nautilus: a concurrent anticipatory programming language. (English summary) (*see* **2004d:00014**)
Menni, Matías (*with* Simpson, Alex) Topological and limit-space subcategories of countably-based equilogical spaces. (English summary) **2004a:18004**
Merro, Massimo (*with* Sassone, Vladimiro) Typing and subtyping mobility in boxed ambients. (English summary) (*see* **2004j:68004**)
Méry, Daniel *see* **Galmiche, Didier et al., (2004j:68008)**
Miculan, Marino *see* **Honsell, Furio et al.**
Milius, Stefan *see* **Adámek, Jiří et al., 2004f:18006**
Miller, Dale A. *see* **Mcdowell, Raymond C., 2004e:68066**
Mislove, Michael *see* **Gierz, G. et al., 2004h:06001**; **Gastin, Paul, 2004k:68126** *and* **Martin, Keye et al., (2004e:54001)**
Moggi, Eugenio *see* **Ferrari, Gianluigi et al.**
Montanari, Ugo *see* **Buscemi, Maria Grazia, (2004j:68004)**
Niemelä, Ilkka *see* **Simons, Patrik et al., 2004b:68022** *and* **Heljanko, Keijo, 2004i:68137**

Nikitchenko, N. S. Infinitary equational logics of partial predicates of a singular level. (Ukrainian. English and Ukrainian summaries)
Nowak, David *see* **Lazić, Ranko**, (2004j:68021)
Núñez García, Manuel Algebraic theory of probabilistic processes. (English summary) **2004h:68098**
Nygaard, Mikkel (*with* Winskel, Glynn) HOPLA—a higher-order process language. (English summary) (*see* **2004j:68004**)
Panangaden, Prakash *see* **Desharnais, Josée et al.**, **2004c:68096**
Pappalardo, Giuseppe *see* **Koutny, Maciej**, **2004g:68123**
Pfeifer, Gerald *see* **Eiter, Thomas et al.**, **2004i:68023**
Pierce, Benjamin C. *see* **Igarashi, Atsushi**, **2004f:68020**
Plotkin, Gordon (*with* Power, John) Algebraic operations and generic effects. (English summary) **2004e:18007**
Plump, Detlef *see* **Wells, Joe B. et al.**
Pommereau, Franck *see* **Klaudel, Hanna**, **2004f:68109**
Power, John *see* **Plotkin, Gordon**, **2004e:18007** *and* **Ghani, Neil et al.**, **2004f:18008**
Pugliese, Rosario *see* **Ferrari, Gianluigi et al.**
Pym, David J. *see* **Galmiche, Didier et al.**, (**2004j:68008**)
Ramos, Jaime *see* **Menezes, P. Blauth et al.**, (**2004d:00014**)
Raussen, Martin State spaces and dipaths up to dihomotopy. (English summary) **2004g:68125**
Red'ko, I. V. The process-logical environment of modeling. (Ukrainian. English, Russian and Ukrainian summaries)
Reed, G. M. *see* **Martin, Keye et al.**, (**2004e:54001**)
Resende, Pedro Quantales and observational semantics. **2004d:06017**
Richerby, David *see* **Dawar, Anuj**, **2004m:68081**
Rossi, Sabina *see* **Le Charlier, Baudouin et al.**, **2004e:68013**
Sassone, Vladimiro *see* **Merro, Massimo**, (**2004j:68004**)
Scagnetto, Ivan *see* **Honsell, Furio et al.**
Schaub, Torsten (*with* Wang, Kewen) A semantic framework for preference handling in answer set programming. (English summary) **2004i:68030**
Schellekens, Michel Extendible spaces. (English summary) **2004a:54035**
— A characterization of partial metrizability: domains are quantifiable. (English summary) **2004i:54037**
Schneider, Klaus[1] Proving the equivalence of microstep and macrostep semantics. (English summary) (*see* **2004k:68010**)
Schröder, Tobias *see* **Gumm, H. Peter et al.**, **2004i:18006**
Scott, Dana S. *see* **Awodey, Steven et al.**, **2004a:03078** *and* **Gierz, G. et al.**, **2004h:06001**
Severi, Paula *see* **Fernández, Maribel**, (**2004k:68006**)
Shu, Zhong Mei *see* **Zhou, Xiao Cong**
Simons, Patrik (*with* Niemelä, Ilkka; Soininen, Timo) Extending and implementing the stable model semantics. (English summary) **2004b:68022**
Simpson, Alex *see* **Menni, Matías**, **2004a:18004** *and* **Bucalo, Anna et al.**, **2004b:18012**
(Smyth, Michael B.) *see* **Topology in computer science**
Soininen, Timo *see* **Simons, Patrik et al.**, **2004b:68022**
Spoto, Fausto *see* **Levi, Giorgio**, **2004b:68021**
(Spreen, Dieter) *see* **Topology in computer science**
Spyratos, Nicolas *see* **Loyer, Yann**
Srba, Jiří Note on the tableau technique for commutative transition systems. (English summary) **2004a:68098**
Takeyama, Makoto *see* **Coquand, Thierry**, (**2004j:68022**)
Tchier, F. Demonic input-output relations of compound diagrams. (English summary) **2004i:68034**
Teller, David (*with* Zimmer, Pascal; Hirschkoff, Daniel) Using ambients to control resources. (English summary) (*see* **2004j:68004**)
Thiemann, Peter *see* **Wadler, Philip**, **2004j:68041**
Tini, Simone An axiomatic semantics for the synchronous language Gentzen. (English summary) **2004c:68016**
Tiuryn, Jerzy *see* **Bono, Viviana**, **2004i:68032**
Toporkov, V. V. The question of the decidability of the analysis problem for dataflow models of programs. (Russian. Russian summary) **2004f:68100**
Tronçon, Remko *see* **Vanhoof, Wim et al.**, (**2004k:68006**)
Truszczyński, Mirosław *see* **Lonc, Zbigniew**, **2004k:68025**
Tsuiki, Hideki A domain-theoretic semantics of lax generic functions. (English summary) **2004b:68027**
Tulio Valente, Marco *see* **Carbunar, Bogdan et al.**
Turner, Hudson Strong equivalence made easy: nested expressions and weight constraints. (English summary) **2004i:68031**
Valentini, Silvio A Cartesian closed category in Martin-Löf's intuitionistic type theory. (English summary) **2004b:03018**
Van Hentenryck, Pascal *see* **Le Charlier, Baudouin et al.**, **2004e:68013**
Vanhoof, Wim (*with* Tronçon, Remko; Bruynooghe, Maurice) A fixed point semantics for logic programs extended with cuts. (English summary) (*see* **2004k:68006**)
Velebil, Jiří *see* **Adámek, Jiřiet al.**, **2004f:18006**
Vermeulen, Kees More computation power for a denotational semantics for first order logic. (English summary) **2004m:03125**
de Vink, E. P. *see* **Baeten, J. C. M.**, **2004m:68174**
Vitek, Jan *see* **Carbunar, Bogdan et al.**
Volkov, V. A. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al.**, **2004g:68110**
Wadler, Philip (*with* Thiemann, Peter) The marriage of effects and monads. (English summary) **2004j:68041**
Wang, Kewen *see* **Schaub, Torsten**, **2004i:68030**
Wells, Joe B. (*with* Plump, Detlef; Kamareddine, Fairouz) Diagrams for meaning preservation. (English summary)
de Wind, Paulien *see* **Fokkink, Willem Jan et al.**
Winskel, Glynn *see* **Nygaard, Mikkel**, (**2004j:68004**)
Wolff, Burkhart *see* **Brucker, Achim D.**
Zaffanella, Enea (*with* Hill, Patricia M.; Bagnara, Roberto) Decomposing non-redundant sharing by complementation. (English summary) **2004f:68014**
— *see also* **Hill, Patricia M. et al.**, **2004m:68019**
(Zhang, Guo-Qiang) *see* **Domain theory, logic and computation**, **2004m:68003**
Zhang, WenHui Combining static analysis and case-based search space partitioning for reducing peak memory in model checking. (English summary)
Zhou, Xiao Cong (*with* Shu, Zhong Mei) A survey on the coalgebraic methods in computer science. (Chinese. English and Chinese summaries)
Zimmer, Pascal *see* **Teller, David et al.**, (**2004j:68004**)

Items listed otherwise than by author

Algebraic and coalgebraic methods in the mathematics of program construction ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
Chengdu ★ Domain theory, logic and computation. **2004m:68003**
Coalgebraic methods in computer science ★ Coalgebraic methods in computer science.
Domain theory, logic and computation ★ Domain theory, logic and computation. **2004m:68003**
Genova ★ Coalgebraic methods in computer science.
Lecture Notes in Computer Science ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
— ★ Logic based program synthesis and transformation. **2004k:68006**
Logic based program synthesis and transformation ★ Logic based program synthesis and transformation. **2004k:68006**
Madrid ★ Logic based program synthesis and transformation. **2004k:68006**
Oxford ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
Schloß Dagstuhl ★ Topology in computer science.
Seminar:
Topology in Computer Science: Constructivity, Asymmetry and Partiality, Digitization ★ Topology in computer science.
Topology in computer science ★ Topology in computer science.

68Q60 Specification and verification (program logics, model checking, etc.) [see also 03B70]

van der Aalst, W. M. P. *see* **Kiepuszewski, B. et al.**, **2004d:68088**
Abdulla, Parosh Aziz (*with* Boasson, Luc; Bouajjani, Ahmed) Effective lossy queue languages. (English summary)
— (*with* Jonsson, Bengt; Mahata, Pritha; d'Orso, Julien) Regular tree model checking. (English summary)
— (*with* Jonsson, Bengt; Nilsson, Marcus; d'Orso, Julien) Regular model checking made simple and efficient. (English summary) (*see* **2004j:68004**)
— (*with* Bouajjani, Ahmed; d'Orso, Julien) Deciding monotonic games. (English summary) **2004k:68101**
Abraham, Uri (*with* Pinhas, Tamar) Exercises in style (alpha specifications). (English summary)
Aceto, Luca (*with* Bouyer, Patricia; Burgueño, Augusto; Larsen, Kim Guldstrand) The power of reachability testing for timed automata. (English summary) **2004a:68085**
Adsul, Bharat (*with* Sohoni, Milind) Complete and tractable local linear time temporal logics over traces. (English summary)
— (*with* Sohoni, Milind) Local normal forms for logics over traces. (English summary) **2004k:68102**
Afrati, Foto *see* **Guessarian, Irène et al.**, **2004f:68095**
Aiguier, Marc ÉTOILE-specifications: an object-oriented algebraic formalism with refinement. (English summary) **2004m:68149**
Aït Mohamed, Otmane (*with* Song, Xiaoyu; Cerny, Eduard) On the non-termination of M_{DG}-based abstract state enumeration. (English summary) **2004b:68102**
de Alfaro, Luca Model checking the World Wide Web. (English summary) **2004m:68150**
Alur, Rajeev (*with* Etessami, Kousha; Yannakakis, Mihalis) Realizability and verification of MSC graphs. (English summary)
Andronikos, Theodore *see* **Guessarian, Irène et al.**, **2004f:68095**
Aoki, Toshiaki *see* **Tateishi, Takaaki et al.**, **2004e:68068**
Arons, Tamarah (*with* Pnueli, Amir; Ruah, Sitvanit; Xu, Ying[1]; Zuck, Lenore) Parameterized verification with automatically computed inductive assertions. (English summary) (*see* **2004j:68007**)
Asarin, E. A. (*with* Schneider, Gerardo) Widening the boundary between decidable and undecidable hybrid systems. (English summary) (*see* **2004j:68004**)
Aßmann, Ulrich *see* **Asteroth, Alexander et al.**, (**2004j:68007**)
Asteroth, Alexander (*with* Baier, Christel; Aßmann, Ulrich) Model checking with formula-dependent abstract models. (English summary) (*see* **2004j:68007**)
Atanasova, Irena L. Open systems versus closed systems. (English and Bulgarian summaries) (*see* **2004d:00017**)
Baier, Christel *see* **Asteroth, Alexander et al.**, (**2004j:68007**)
Balbiani, Philippe (*with* Vakarelov, Dimit″r) Iteration-free PDL with intersection: a complete axiomatization. (English summary)
— Eliminating unorthodox derivation rules in an axiom system for iteration-free PDL with intersection. (English summary) **2004k:68103**
Baldamus, Michael (*with* Schneider, Klaus[1]) The BDD space complexity of different forms of concurrency. (English summary) **2004i:68131**
Barbuti, Roberto (*with* De Francesco, Nicoletta; Tesei, Luca) Timed automata with non-instantaneous actions. (English summary) **2004i:68132**
— (*with* Tesei, Luca) A decidable notion of timed non-interference. (English summary) **2004i:68133**
— (*with* Tesei, Luca) Timed automata with urgent transitions. (English summary) **2004m:68151**
Bartzis, Constantinos (*with* Bultan, Tevfik) Efficient symbolic representations for arithmetic constraints in verification. (English summary) **2004h:68077**
Basin, David (*with* Friedrich, Stefan; Gawkowski, Marek) Verified bytecode model checkers. (English summary) (*see* **2004k:68010**)
— (*with* Friedrich, Stefan; Gawkowski, Marek) Bytecode verification by model checking. (English summary)
Behrmann, Gerd *see* **Larsen, Kim Guldstrand et al.**, (**2004j:68007**)

Benedikt, Michael (*with* Godefroid, Patrice; Reps, Thomas) Model checking of unrestricted hierarchical state machines. (English summary)
Bernet, Julien (*with* Janin, David; Walukiewicz, Igor) Permissive strategies: from parity games to safety games. (English summary) **2004j:68112**
Bertot, Yves (*with* Magaud, Nicolas; Zimmermann, Paul) A proof of GMP square root. (English summary) **2004b:68103**
Berwanger, Dietmar (*with* Grädel, Erich; Lenzi, Giacomo) On the variable hierarchy of the modal μ-calculus. (English summary) **2004m:68152**
Bhat, Girish S. (*with* Cleaveland, W. Rance; Groce, Alex) Efficient model checking via Büchi tableau automata. (English summary) (*see* **2004j:68007**)
Björklund, Henrik (*with* Sandberg, Sven; Vorob′ev, S. G.) Memoryless determinacy of parity and mean payoff games: a simple proof. (English summary) **2004m:68153**
Bloem, Roderick *see* **Gurumurthy, Sankar et al.**
Boasson, Luc *see* **Abdulla, Parosh Aziz et al.**
Bornat, Richard *see* **Calcagno, Cristiano et al., 2004d:68084**
Bossi, Annalisa (*with* Focardi, Riccardo; Piazza, Carla; Rossi, Sabina) A proof system for information flow security. (English summary) (*see* **2004k:68006**)
Bouajjani, Ahmed Languages, rewriting systems, and verification of infinite-state systems.
— (*with* Touili, Tayssir) Extrapolating tree transformations. (English summary)
— (*with* Habermehl, Peter; Mayr, Richard) Automatic verification of recursive procedures with one integer parameter. (English summary) **2004h:68078**
— *see also* **Abdulla, Parosh Aziz et al., 2004k:68101**
Bouyer, Patricia *see* **Aceto, Luca et al., 2004a:68085**
Bowen, Jonathan P. *see* **Henson, Martin C. et al.**
Bozga, Marius *see* **Fernandez, Jean-Claude et al., 2004f:68092**
van Breugel, Franck (*with* Worrell, James) Towards quantitative verification of probabilistic transition systems. (English summary)
Brinksma, Ed *see* **Larsen, Kim Guldstrand et al., (2004j:68007)**
Brucker, Achim D. (*with* Wolff, Burkhart) Using theory morphisms for implementing formal methods tools. (English summary)
Bryant, Randal E. *see* **Strichman, Ofer et al.**
Buchholz, Peter (*with* Katoen, Joost-Pieter; Kemper, Peter; Tepper, Carsten) Model-checking large structured Markov chains. (English summary) **2004f:68089**
Bultan, Tevfik *see* **Bartzis, Constantinos, 2004h:68077** *and* **Fu, Xiang[2] et al., (2004j:68014)**
Burgueño, Augusto *see* **Aceto, Luca et al., 2004a:68085**
Bustan, Doron (*with* Grumberg, Orna) Simulation-based minimization. (English summary) **2004c:68081**
Cachat, Thierry Symbolic strategy synthesis for games on pushdown graphs. (English summary)
Calcagno, Cristiano (*with* O'Hearn, Peter; Bornat, Richard) Program logic and equivalence in the presence of garbage collection. (English summary) **2004d:68084**
Cansell, Dominique (*with* Méry, Dominique) Foundations of the B method. (English summary)
Cassez, Franck *see* **Herbreteau, Frédéric et al., 2004a:68088**
Cerny, Eduard *see* **Aït Mohamed, Otmane et al., 2004b:68102**
Chakrabarti, P. P. *see* **Chatterjee, Krishnendu et al., 2004m:68154**
Charatonik, Witold (*with* Dal Zilio, Silvano; Gordon, Andrew D.; Mukhopadhyay, Supratik; Talbot, Jean-Marc) Model checking mobile ambients. (English summary) **2004i:68134**
Chatterjee, Krishnendu (*with* Jurdziński, Marcin; Henzinger, Thomas A.) Simple stochastic parity games. (English summary) **2004k:68104**
— (*with* Dasgupta, Pallab; Chakrabarti, P. P.) A branching time temporal framework for quantitative reasoning. (English summary) **2004m:68154**
Chen, Jing Reachability analysis on real-time value-passing systems. (Chinese. English and Chinese summaries) **2004b:68104**
— Dense time representation and redundancy elimination. (Chinese. English and Chinese summaries) **2004h:68079**
Chen, Yifeng A fixpoint theory for non-monotonic parallelism. (English summary) (*see* **2004j:68008**)
Chockler, Hana (*with* Kupferman, Orna; Kurshan, Robert P.; Vardi, Moshe Y.) A practical approach to coverage in model checking. (English summary) (*see* **2004j:68007**)
Clarke, Edmund (*with* Fehnker, Ansgar; Han, Zhi; Krogh, Bruce H.; Ouaknine, Joël; Stursberg, Olaf; Theobald, Michael) Abstraction and counterexample-guided refinement in model checking of hybrid systems. (English summary) **2004h:68080**
Cleaveland, W. Rance *see* **Bhat, Girish S. et al., (2004j:68007)**
Condon, Anne E. (*with* Hu, Alan J.) Automatable verification of sequential consistency. (English summary) **2004h:68081**
Cortier, Véronique About the decision of reachability for register machines. (English summary) **2004a:68086**
Coupet-Grimal, Solange (*with* Nouvet, Catherine) Formal verification of an incremental garbage collector. (English summary)
Dal Zilio, Silvano *see* **Charatonik, Witold et al., 2004i:68134**
Dam, Mads Proof systems for π-calculus logics. (English summary) **2004j:68113**
Dams, Dennis (*with* Lakhnech, Yassine; Steffen, Martin) Iterating transducers. (English summary) (*see* **2004j:68007**)
Dang, Zhe Binary reachability analysis of pushdown timed automata with dense clocks. (English summary) (*see* **2004j:68007**)
— (*with* Ibarra, Oscar H.; Kemmerer, Richard A.) Generalized discrete timed automata: decidable approximations for safety verification. (English summary) **2004b:68105**
— Pushdown timed automata: a binary reachability characterization and safety verification. (English summary) **2004g:68105**
— *see also* **Ibarra, Oscar H. et al., 2004g:68109** *and* **Xie, Gaoyan et al., (2004j:68014)**
Dasgupta, Pallab *see* **Chatterjee, Krishnendu et al., 2004m:68154**
De Francesco, Nicoletta (*with* Santone, Antonella) A formula-driven modular attack on state explosion. (English summary) **2004a:68087**
— (*with* Santone, Antonella; Tesei, Luca) Abstract interpretation and model checking for checking secure information flow in concurrent systems. (English summary) **2004k:68105**
— *see also* **Barbuti, Roberto et al., 2004i:68132**
Déharbe, David A tutorial introduction to symbolic model checking. (English summary) **2004i:68135**
Dekhtyar, Mikhail I. (*with* Dikovskiĭ, A. Ya.; Valiev, M. K.) On feasible cases of checking multi-agent systems behavior. (English summary) **2004f:68090**
Delzanno, Giorgio (*with* Raskin, Jean-François; Van Begin, Laurent) Attacking symbolic state explosion. (English summary) (*see* **2004j:68007**)
Dembiński, Piotr (*with* Penczek, Wojciech; Półrola, Agata) Verification of timed automata based on similarity. (English summary) **2004i:68136**
Demri, Stéphane (*with* D'Souza, Deepak) An automata-theoretic approach to constraint LTL. (English summary) **2004k:68107**
— (*with* Laroussinie, F.; Schnoebelen, Ph.) A parametric analysis of the state explosion problem in model checking. (English summary) (*see* **2004j:68020**)
De Nicola, Rocco (*with* Loreti, Michele) A modal logic for mobile agents. (English summary) **2004k:68106**
Desharnais, Josée (*with* Panangaden, Prakash) Continuous stochastic logic characterizes bisimulation of continuous-time Markov processes. (English summary) **2004f:68091**
Deutsch, Mosch[2] (*with* Henson, Martin C.; Reeves, Steve) An analysis of total correctness refinement models for partial relation semantics. I. (English summary) **2004h:68082a**
— (*with* Henson, Martin C.) An analysis of total correctness refinement models for partial relation semantics. II. (English summary) **2004h:68082b**
Dikovskiĭ, A. Ya. *see* **Dekhtyar, Mikhail I. et al., 2004f:68090**
Doberkat, Ernst-Erich Pipelines: modelling a software architecture through relations. (English summary) **2004g:68106**
Dold, Axel (*with* von Henke, Friedrich Wilhelm; Goerigk, Wolfgang) A completely verified realistic bootstrap compiler. (English summary)
Doroshenko, A. E. (*with* Tseĭtlin, G. E.) Algebraic-automaton specification of parallel programs over common and distributed memory. (Russian. English, Russian and Ukrainian summaries)
Dovier, Agostino (*with* Piazza, Carla; Policriti, Alberto) A fast bisimulation algorithm. (English summary) (*see* **2004j:68007**)
D'Souza, Deepak A logical characterisation of event clock automata. (English summary) **2004e:68064**
— *see also* **Demri, Stéphane, 2004k:68107**
Durán, Francisco (*with* Meseguer, José) Structured theories and institutions. (English summary) **2004k:68108**
Emerson, E. Allen (*with* Namjoshi, Kedar S.) On reasoning about rings. (English summary) **2004m:68155**
Engelfriet, Joeri (*with* Jonker, Catholijn M.; Treur, Jan) Compositional verification of multi-agent systems in temporal multi-epistemic logic.
— (*with* Treur, Jan) Linear, branching time and joint closure semantics for temporal logic. (English summary) **2004d:68085**
Esparza, Javier *see* **Kučera, Antonín[2], 2004m:68162**
Etessami, Kousha *see* **Alur, Rajeev et al.**
Fehnker, Ansgar *see* **Clarke, Edmund et al., 2004h:68080** *and* **Larsen, Kim Guldstrand et al., (2004j:68007)**
Fernandez, Jean-Claude (*with* Bozga, Marius; Ghirvu, Lucian) State space reduction based on live variables analysis. (English summary) **2004f:68092**
Fernández, Maribel (*with* Severi, Paula) An operational approach to program extraction in the calculus of constructions. (English summary) (*see* **2004k:68006**)
— (*with* Mackie, Ian) Operational equivalence for interaction nets. (English summary) **2004d:68086**
Finkel, Alain (*with* Leroux, Jérôme) How to compose Presburger-accelerations: applications to broadcast protocols. (English summary) **2004k:68109**
— *see also* **Herbreteau, Frédéric et al., 2004a:68088**
Flanagan, Cormac Automatic software model checking via constraint logic. (English summary)
Focardi, Riccardo *see* **Bossi, Annalisa et al., (2004k:68006)**
Fokkink, Willem Jan (*with* van Glabbeek, Rob; de Wind, Paulien) Compositionality of Hennessy-Milner logic through structural operational semantics. (English summary)
Foustoucos, Eugénie *see* **Guessarian, Irène et al., 2004f:68095**
Fox, A. J. C. (*with* Harman, N. A.) Algebraic models of correctness for abstract pipelines. (English summary) **2004g:68107**
Franceschet, Massimo (*with* Montanari, Angelo) Branching within time: an expressively complete and elementarily decidable temporal logic for time granularity. (English summary) **2004m:68156**
Frick, Markus Generalized model-checking over locally tree-decomposable classes. (English summary) **2004m:68157**
Friedrich, Stefan *see* **Basin, David et al., (2004k:68010)**
Fritz, Carsten Constructing Büchi automata from linear temporal logic using simulation relations for alternating Büchi automata. (English summary) (*see* **2004j:68014**)
Fu, Xiang[2] (*with* Bultan, Tevfik; Su, Jianwen) Conversation protocols: a formalism for specification and verification of reactive electronic services. (English summary) (*see* **2004j:68014**)
Futatsugi, Kokichi *see* **Kondoh, Hidetaka**
Gastin, Paul (*with* Oddoux, Denis) Fast LTL to Büchi automata translation. (English summary) (*see* **2004j:68007**)
— (*with* Mukund, Madhavan) An elementary expressively complete temporal logic for Mazurkiewicz traces. (English summary)
Gawkowski, Marek *see* **Basin, David et al., (2004k:68010)**
Genest, Blaise (*with* Muscholl, Anca; Seidl, Helmut; Zeitoun, Marc) Infinite-state high-level MSCs: model-checking and realizability (extended abstract). (English summary)
Gentilini, Raffaella (*with* Piazza, Carla; Policriti, Alberto) From bisimulation to simulation: coarsest partition problems. (English summary) **2004j:68114**
George, Chris (*with* Haxthausen, Anne E.) The logic of the RAISE specification language. (English summary)
Ghirvu, Lucian *see* **Fernandez, Jean-Claude et al., 2004f:68092**
Girault-Beauquier, Danièle Markov decision processes and deterministic Büchi automata. (English summary) **2004f:68093**
— On probabilistic timed automata. (English summary) **2004c:68082**
van Glabbeek, Rob *see* **Fokkink, Willem Jan et al.**
Godefroid, Patrice (*with* Jagadeesan, Radha) Automatic abstraction using generalized

model checking. (English summary)
— *see also* **Sistla, A. Prasad**, (**2004j:68007**) *and* **Benedikt, Michael et al.**
Goerigk, Wolfgang *see* **Dold, Axel et al.**
Gordon, Andrew D. (*with* Jeffrey, Alan Stewart Austin) Typing correspondence assertions for communication protocols. (English summary) **2004d:68087**
— *see also* **Charatonik, Witold et al.**, **2004i:68134**
Gottlob, Georg (*with* Pichler, Reinhard) Hypergraphs in model checking: acyclicity and hypertree-width versus clique-width. (English summary)
Gowland, Paul *see* **Lester, David**, **2004a:68090**
Grädel, Erich *see* **Berwanger, Dietmar et al.**, **2004m:68152**
Groce, Alex *see* **Bhat, Girish S. et al.**, (**2004j:68007**)
Grumberg, Orna (*with* Heyman, Tamir; Schuster, Assaf) Distributed symbolic model checking for μ-calculus. (English summary) (*see* **2004j:68007**)
— Abstractions and reductions in model checking. (English summary) **2004g:68108**
— (*with* Livne, Shlomi; Markovitch, Shaul) Learning to order BDD variables in verification. (English summary) **2004f:68094**
— *see also* **Bustan, Doron**, **2004c:68081**
Guessarian, Irène (*with* Foustoucos, Eugénie; Andronikos, Theodore; Afrati, Foto) On temporal logic versus datalog. (English summary) **2004f:68095**
Gurumurthy, Sankar (*with* Bloem, Roderick; Somenzi, Fabio) Fair simulation minimization. (English summary)
Habermehl, Peter *see* **Bouajjani, Ahmed et al.**, **2004h:68078**
Haeusler, Edward Hermann *see* **Rentería, Christian Jacques**, **2004g:68113** *and* **de O. Braga, Christiano et al.**, (**2004k:68006**)
Han, Zhi *see* **Clarke, Edmund et al.**, **2004h:68080**
Harman, Mark *see* **Zhang, Xingyuan et al.**, (**2004k:68010**)
Harman, N. A. *see* **Fox, A. J. C.**, **2004g:68107**
Haxthausen, Anne E. *see* **George, Chris**
Hayes, Ian Reasoning about real-time repetitions: terminating and nonterminating. (English summary) **2004c:68083**
Heljanko, Keijo (*with* Niemelä, Ilkka) Bounded LTL model checking with stable models. (English summary) **2004i:68137**
von Henke, Friedrich Wilhelm *see* **Dold, Axel et al.**
Henson, Martin C. (*with* Reeves, Steve; Bowen, Jonathan P.) Z logic and its consequences. (English summary)
— *see also* **Deutsch, Mosch[2] et al.**, **2004h:68082a** *and* **2004h:68082b**
Henzinger, Thomas A. (*with* Krishnan, Sriram C.; Kupferman, Orna; Mang, Freddy Y. C.) Synthesis of uninitialized systems. (English summary)
— *see also* **Chatterjee, Krishnendu et al.**, **2004k:68104** *and* **Jurdziński, Marcin et al.**, **2004m:68158**
Herbreteau, Frédéric (*with* Cassez, Franck; Finkel, Alain; Roux, Olivier; Sutre, Grégoire) Verification of embedded reactive fiffo systems. (English summary) **2004a:68088**
Hermanns, Holger (*with* Kwiatkowska, Marta; Norman, Gethin; Parker, David; Siegle, Markus) On the use of MTBDDs for performability analysis and verification of stochastic systems. (English summary) **2004f:68096**
Heyman, Tamir *see* **Grumberg, Orna et al.**, (**2004j:68007**)
ter Hofstede, A. H. M. *see* **Kiepuszewski, B. et al.**, **2004d:68088**
Homeier, Peter V. (*with* Martin, David F.) Secure mechanical verification of mutually recursive procedures. (English summary) **2004j:68115**
Hu, Alan J. *see* **Condon, Anne E.**, **2004h:68081**
Hu, Lin *see* **Zhang, Xingyuan et al.**, (**2004k:68010**)
Hune, Thomas *see* **Larsen, Kim Guldstrand et al.**, (**2004j:68007**)
Hurd, Joe A formal approach to probabilistic termination. (English summary) (*see* **2004k:68010**)
Hwang, Geng-Dian *see* **Wang, Farn et al.**, (**2004j:68014**)
Ibarra, Oscar H. (*with* Dang, Zhe; San Pietro, Pierluigi) Verification in loosely synchronous queue-connected discrete timed automata. (English summary) **2004g:68109**
— *see also* **Dang, Zhe et al.**, **2004b:68105**
Jagadeesan, Radha *see* **Godefroid, Patrice**
Jančar, Petr (*with* Kučera, Antonín[2]; Moller, Faron; Sawa, Zdeněk) DP lower bounds for equivalence-checking and model-checking of one-counter automata. (English summary) **2004k:68110**
Janin, David *see* **Bernet, Julien et al.**, **2004j:68112**
Jeffrey, Alan Stewart Austin *see* **Gordon, Andrew D.**, **2004d:68087**
Jonker, Catholijn M. *see* **Engelfriet, Joeri et al.**
Jonsson, Bengt *see* **Abdulla, Parosh Aziz et al.**, (**2004j:68004**)
Jurdziński, Marcin (*with* Kupferman, Orna; Henzinger, Thomas A.) Trading probability for fairness. (English summary) **2004m:68158**
— *see also* **Chatterjee, Krishnendu et al.**, **2004k:68104**
Kähler, Detlef (*with* Wilke, Thomas) Program complexity of dynamic LTL model checking. (English summary) **2004m:68159**
Kaminski, Michael (*with* Yariv, Yael) A real-time semantics of temporal logic of actions. (English summary) **2004m:68160**
Kapitonova, Yu. V. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al.**, **2004g:68110**
von Karger, Burghard Temporal algebra. (*see* **2004d:68001**)
Katayama, Takuya *see* **Tateishi, Takaaki et al.**, **2004e:68068**
Katoen, Joost-Pieter *see* **Buchholz, Peter et al.**, **2004f:68089**
Kemmerer, Richard A. *see* **Dang, Zhe et al.**, **2004b:68105**
Kemper, Peter *see* **Buchholz, Peter et al.**, **2004f:68089**
Kervinen, Antti *see* **Valmari, Antti**, (**2004j:68004**)
Kesten, Yonit (*with* Pnueli, Amir; Shahar, Elad; Zuck, Lenore) Network invariants in action. (English summary) (*see* **2004j:68004**)
— *see also* **Pnueli, Amir**, **2004m:68168**
Khomenko, Victor (*with* Koutny, Maciej; Vogler, Walter) Canonical prefixes of Petri net unfoldings. (English summary)
Kiepuszewski, B. (*with* ter Hofstede, A. H. M.; van der Aalst, W. M. P.) Fundamentals of control flow in workflows. (English summary) **2004d:68088**
Kiwi, Marcos A. (*with* Magniez, Frédéric; Santha, Miklos) Approximate testing with error relative to input size. (English summary) **2004k:68111**
Kondoh, Hidetaka (*with* Futatsugi, Kokichi) On the use of goto's in escaping from nested loops: from the Hoare logic viewpoint. (Japanese. English and Japanese summaries)
Konikowska, Beata (*with* Penczek, Wojciech) Reducing model checking from multi-valued CTL* to CTL*. (English summary) (*see* **2004j:68004**)
— Rasiowa-Sikorski deduction systems in computer science applications. (English summary) **2004f:68097**
— (*with* Penczek, Wojciech) Model checking for multi-valued computation tree logics. (English summary) **2004e:68065**
Kotlyarov, Vsevolod Pavlovich *see* **Letichevskiĭ, Aleksandr Adol'fovich et al.**, **2004g:68110**
Koutny, Maciej *see* **Khomenko, Victor et al.**
Krishnan, Sriram C. *see* **Henzinger, Thomas A. et al.**
Krogh, Bruce H. *see* **Clarke, Edmund et al.**, **2004h:68080**
Kučera, Antonín[2] (*with* Strejček, Jan) The stuttering principle revisited: on the expressiveness of nested X and U operators in the logic LTL. (English summary) **2004m:68161**
— (*with* Mayr, Richard) Why is simulation harder than bisimulation? (English summary) (*see* **2004j:68004**)
— (*with* Esparza, Javier) A logical viewpoint on process-algebraic quotients. (English summary) **2004m:68162**
— *see also* **Jančar, Petr et al.**, **2004k:68110**
Kupferman, Orna (*with* Piterman, Nir; Vardi, Moshe Y.) Model checking linear properties of prefix-recognizable systems. (English summary)
— *see also* **Jurdziński, Marcin et al.**, **2004m:68158**; **Chockler, Hana et al.**, (**2004j:68007**) *and* **Henzinger, Thomas A. et al.**
Kurshan, Robert P. *see* **Chockler, Hana et al.**, (**2004j:68007**)
Küsters, Ralf (*with* Wilke, Thomas) Deciding the first level of the μ-calculus alternation hierarchy. (English summary) **2004k:68112**
Kwiatkowska, Marta *see* **Hermanns, Holger et al.**, **2004f:68096**
Lakhnech, Yassine *see* **Dams, Dennis et al.**, (**2004j:68007**)
Lange, Martin Local model checking games for fixed point logic with chop. (English summary) (*see* **2004j:68004**)
— (*with* Stirling, Colin) Model checking fixed point logic with chop. (English summary) **2004a:68089**
Lanotte, Ruggero (*with* Maggiolo-Schettini, Andrea; Tini, Simone; Peron, Adriano) Transformations of timed cooperating automata. (English summary) **2004i:68138**
Laroussinie, F. (*with* Schnoebelen, Ph.; Turuani, Mathieu) On the expressivity and complexity of quantitative branching-time temporal logics. (English summary) **2004c:68084**
— *see also* **Demri, Stéphane et al.**, (**2004j:68020**)
Larsen, Kim Guldstrand (*with* Behrmann, Gerd; Brinksma, Ed; Fehnker, Ansgar; Hune, Thomas; Pettersson, Paul; Romijn, Judi) As cheap as possible: efficient cost-optimal reachability for priced timed automata. (English summary) (*see* **2004j:68007**)
— *see also* **Aceto, Luca et al.**, **2004a:68085**
Lazić, Ranko (*with* Nowak, David) On a semantic definition of data independence. (English summary) (*see* **2004j:68021**)
Lenzi, Giacomo *see* **Berwanger, Dietmar et al.**, **2004m:68152**
Leroux, Jérôme *see* **Finkel, Alain**, **2004k:68109**
Leroy, Xavier Java bytecode verification: algorithms and formalizations. (English summary)
Lester, David (*with* Gowland, Paul) Using PVS to validate the algorithms of an exact arithmetic. (English summary) **2004a:68090**
Letichevskiĭ, A. A., Jr. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al.**, **2004g:68110**
Letichevskiĭ, Aleksandr Adol'fovich (*with* Kapitonova, Yu. V.; Kotlyarov, Vsevolod Pavlovich; Letichevskiĭ, A. A., Jr.; Volkov, V. A.) Semantics of times message sequence charts. (English and Ukrainian summaries) **2004g:68110**
Leucker, Martin (*with* Madhusudan, P.; Mukhopadhyay, Supratik) Dynamic message sequence charts. (English summary) **2004k:68113**
Li, Cheng *see* **Xie, Gaoyan et al.**, (**2004j:68014**)
Li, Guang Yuan (*with* Tang, Zhi Song) Representing and verifying reactive systems with continuous-time temporal logic. (Chinese. English and Chinese summaries)
Li, Wei[3] A development calculus for specifications. (English summary) **2004j:68116**
Lin, Hui Min *see* **Liu, Jian[7]**, **2004a:68091**; **2004h:68083** *and* **Xue, Rui**, **2004h:68086**
Liu, Jian[7] (*with* Lin, Hui Min) Diagnostic information generation in model checking value-passing processes. (Chinese. English and Chinese summaries) **2004a:68091**
— (*with* Lin, Hui Min) Consistency between the predicate μ-calculus and modal graphs. (Chinese. English and Chinese summaries) **2004h:68083**
Livne, Shlomi *see* **Grumberg, Orna et al.**, **2004f:68094**
Löding, Christof Model-checking infinite systems generated by ground tree rewriting. (English summary) **2004a:68092**
Lohrey, Markus Safe realizability of high-level message sequence charts. (English summary) (*see* **2004j:68004**)
— (*with* Muscholl, Anca) Bounded MSC communication. (English summary) **2004a:68093**
Lomuscio, Alessio *see* **Penczek, Wojciech**, **2004i:68140**
Loreti, Michele *see* **De Nicola, Rocco**, **2004k:68106**
Lu, Xin Da *see* **Xu, Wei Wen**
Luukkainen, Matti *see* **Malinen, Tuomo**, **2004m:68163**
Lynch, Nancy (*with* Segala, Roberto; Vaandrager, Frits) Hybrid I/O automata. (English summary) **2004h:68084**
Mackie, Ian *see* **Fernández, Maribel**, **2004d:68086**
Mackworth, Alan K. (*with* Zhang, Ying[3]) A formal approach to agent design: an overview of constraint-based agents. (English summary)
Madhusudan, P. (*with* Thiagarajan, P. S.) Distributed controller synthesis for local specifications. (English summary)
— Reasoning about sequential and branching behaviours of message sequence graphs. (English summary)
— (*with* Thiagarajan, P. S.) A decidable class of asynchronous distributed controllers. (English summary) (*see* **2004j:68004**)
— (*with* Thiagarajan, P. S.) Branching time controllers for discrete event systems. (English summary) **2004c:68085**
— *see also* **Leucker, Martin et al.**, **2004k:68113**

Magaud, Nicolas *see* **Bertot, Yves et al., 2004b:68103**
Maggiolo-Schettini, Andrea *see* **Lanotte, Ruggero et al., 2004i:68138**
Magniez, Frédéric *see* **Kiwi, Marcos A. et al., 2004k:68111**
Mahata, Pritha *see* **Abdulla, Parosh Aziz et al.**
Maidl, Monika A unifying model checking approach for safety properties of parameterized systems. (English summary) (*see* **2004j:68007**)
Maier, Patrick A set-theoretic framework for assume-guarantee reasoning. (English summary)
Malinen, Tuomo (*with* Luukkainen, Matti) Fairness in automata theoretic model checking. (English and Estonian summaries) **2004m:68163**
Mang, Freddy Y. C. *see* **Henzinger, Thomas A. et al.**
Marcinkowski, Jerzy (*with* Truderung, Tomasz) Optimal complexity bounds for positive LTL games. (English summary) **2004m:68164**
Markovitch, Shaul *see* **Grumberg, Orna et al., 2004f:68094**
Martin, David F. *see* **Homeier, Peter V., 2004j:68115**
Mateescu, Radu (*with* Sighireanu, Mihaela) Efficient on-the-fly model-checking for regular alternation-free mu-calculus. (English summary) **2004a:68094**
Mauborgne, Laurent Infinitary relations and their representation. (English summary) **2004f:68098**
Mayr, Richard *see* **Bouajjani, Ahmed et al., 2004h:68078** *and* **Kučera, Antonín[2], (2004j:68004)**
Mcdowell, Raymond C. (*with* Miller, Dale A.) Reasoning with higher-order abstract syntax in a logical framework. (English summary) **2004e:68066**
Méry, Dominique *see* **Cansell, Dominique**
Merz, Stephan Model checking techniques for the analysis reactive systems. (English summary) **2004a:68095**
Meseguer, José *see* **Durán, Francisco, 2004k:68108** *and* **de O. Braga, Christiano et al., (2004k:68006)**
Miller, Dale A. *see* **Mcdowell, Raymond C., 2004e:68066**
Mohalik, Swarup (*with* Ramanujam, Ramaswamy) Distributed automata in an assumption-commitment framework. (English summary) **2004f:68099**
Moller, Faron (*with* Rabinovich, Alexander) Counting on CTL*: on the expressive power of monadic path logic. (English summary) **2004e:68067**
— *see also* **Jančar, Petr et al., 2004k:68110**
Montanari, Angelo *see* **Franceschet, Massimo, 2004m:68156**
Morin, Rémi Recognizable sets of message sequence charts. (English summary) **2004m:68165**
Moskvitin, A. A. (*with* Timofeeva, M. K.) Estimation of the length of a convincing proof for a real user. (Russian. Russian summary)
Mossakowski, Till Comorphism-based Grothendieck logics. (English summary)
Mosses, Peter D. *see* **de O. Braga, Christiano et al., (2004k:68006)**
Mukhopadhyay, Supratik *see* **Charatonik, Witold et al., 2004i:68134** *and* **Leucker, Martin et al., 2004k:68113**
Mukund, Madhavan *see* **Gastin, Paul**
Munro, Malcolm *see* **Zhang, Xingyuan et al., (2004k:68010)**
Muscholl, Anca (*with* Peled, Doron) From finite state communication protocols to high-level message sequence charts. (English summary)
— *see also* **Lohrey, Markus, 2004a:68093** *and* **Genest, Blaise et al.**
Namjoshi, Kedar S. *see* **Emerson, E. Allen, 2004m:68155**
Niemelä, Ilkka *see* **Heljanko, Keijo, 2004i:68137**
Nilsson, Marcus *see* **Abdulla, Parosh Aziz et al., (2004j:68004)**
Nipkow, Tobias Hoare logics for recursive procedures and unbounded nondeterminism. (English summary) **2004m:68166**
— Hoare logics in Isabelle/HOL. (English summary) **2004g:68111**
Norman, Gethin *see* **Hermanns, Holger et al., 2004f:68096**
Nouvet, Catherine *see* **Coupet-Grimal, Solange**
Nowak, David *see* **Lazić, Ranko, (2004j:68021)**
de O. Braga, Christiano (*with* Haeusler, Edward Hermann; Meseguer, José; Mosses, Peter D.) Mapping modular SOS to rewriting logic. (English summary) (*see* **2004k:68006**)
Oddoux, Denis *see* **Gastin, Paul, (2004j:68007)**
O'Hearn, Peter *see* **Yang, Hongseok, 2004a:68099** *and* **Calcagno, Cristiano et al., 2004d:68084**
d'Orso, Julien *see* **Abdulla, Parosh Aziz et al., 2004k:68101** *and* **(2004j:68004)**
Ouaknine, Joël *see* **Clarke, Edmund et al., 2004h:68080**
Panangaden, Prakash *see* **Desharnais, Josée, 2004f:68091**
Parker, David *see* **Hermanns, Holger et al., 2004f:68096**
Peled, Doron (*with* Vardi, Moshe Y.; Yannakakis, Mihalis) Black box checking. (English summary) **2004g:68112**
— *see also* **Muscholl, Anca**
Penczek, Wojciech (*with* Woźna, Bożena; Zbrzezny, Andrzej) Bounded model checking for the universal fragment of CTL. (English summary) **2004i:68139**
— (*with* Lomuscio, Alessio) Verifying epistemic properties of multi-agent systems via bounded model checking. (English summary) **2004i:68140**
— *see also* **Konikowska, Beata, 2004e:68065**; **(2004j:68004)**; **Dembiński, Piotr et al., 2004i:68136** *and* **Woźna, Bożena et al., 2004i:68141**
Peron, Adriano *see* **Lanotte, Ruggero et al., 2004i:68138**
Pessanha, Christiano P. (*with* Santos-Mendes, Rafael) Modal logic and dioids. (English summary) **2004m:68167**
Pettersson, Paul *see* **Larsen, Kim Guldstrand et al., (2004j:68007)**
Piazza, Carla *see* **Gentilini, Raffaella et al., 2004j:68114**; **Dovier, Agostino et al., (2004j:68007)** *and* **Bossi, Annalisa et al., (2004k:68006)**
Pichler, Reinhard *see* **Gottlob, Georg**
Pinhas, Tamar *see* **Abraham, Uri**
Piterman, Nir *see* **Kupferman, Orna et al.**
Pnueli, Amir (*with* Xu, Jessie; Zuck, Lenore) Liveness with $(0, 1, \infty)$-counter abstraction. (English summary)
— (*with* Kesten, Yonit) A deductive proof system for CTL*. (English summary) **2004m:68168**
— *see also* **Arons, Tamarah et al., (2004j:68007)** *and* **Kesten, Yonit et al., (2004j:68004)**
Podlovchenko, R. I. The problem of equivalent transformations in a model of programs with commuting and monotone operators. (Russian. Russian summary) **2004j:68117**
Policriti, Alberto *see* **Gentilini, Raffaella et al., 2004j:68114** *and* **Dovier, Agostino et al., (2004j:68007)**
Półrola, Agata *see* **Dembiński, Piotr et al., 2004i:68136**
Purandare, Mitra (*with* Somenzi, Fabio) Vacuum cleaning CTL formulae. (English summary)
Rabinovich, Alexander Expressive power of temporal logics. (English summary) (*see* **2004j:68004**)
— *see also* **Moller, Faron, 2004e:68067**
Ramanujam, Ramaswamy *see* **Mohalik, Swarup, 2004f:68099**
Raskin, Jean-François *see* **Delzanno, Giorgio et al., (2004j:68007)**
Reeves, Steve *see* **Deutsch, Mosch[2] et al., 2004h:68082a** *and* **Henson, Martin C. et al.**
Rentería, Christian Jacques (*with* Haeusler, Edward Hermann) A natural deduction system for CTL. (English summary) **2004g:68113**
Reps, Thomas *see* **Benedikt, Michael et al.**
Robbana, Riadh Verification of duration systems using an approximation approach. (English summary) **2004a:68096**
Rodeh, Yoav (*with* Shtrichman, Ofer) Finite instantiations in equivalence logic with uninterpreted functions. (English summary) (*see* **2004j:68007**)
Romijn, Judi *see* **Larsen, Kim Guldstrand et al., (2004j:68007)**
Rossi, Sabina *see* **Bossi, Annalisa et al., (2004k:68006)**
Roux, Olivier *see* **Herbreteau, Frédéric et al., 2004a:68088**
Ruah, Sitvanit *see* **Arons, Tamarah et al., (2004j:68007)**
Rybina, T. V. (*with* Voronkov, Andrei) Fast infinite-state model checking in integer-based systems. (English summary) **2004m:68169**
Samer, Marko (*with* Veith, Helmut) Validity of CTL queries revisited. (English summary) **2004m:68170**
Sandberg, Sven *see* **Björklund, Henrik et al., 2004m:68153**
San Pietro, Pierluigi *see* **Ibarra, Oscar H. et al., 2004g:68109**
Santha, Miklos *see* **Kiwi, Marcos A. et al., 2004k:68111**
Santocanale, Luigi On the equational definition of the least prefixed point. (English summary) **2004d:68089**
Santone, Antonella (*with* Vaglini, Gigliola) Modifying LOTOS specifications by means of automatable formula-based integrations. (English summary) **2004b:68106**
— *see also* **De Francesco, Nicoletta et al., 2004a:68087** *and* **2004k:68105**
Santos-Mendes, Rafael *see* **Pessanha, Christiano P., 2004m:68167**
Sawa, Zdeněk *see* **Jančar, Petr et al., 2004k:68110**
Schmid, Joachim *see* **Stärk, Robert F.**
Schmidt, Karsten Distributed verification with LoLA. (English summary)
Schneider, Gerardo *see* **Asarin, E. A., (2004j:68004)**
Schneider, Klaus[1] *see* **Baldamus, Michael, 2004i:68131**
Schnoebelen, Ph. *see* **Laroussinie, F. et al., 2004c:68084** *and* **Demri, Stéphane et al., (2004j:68020)**
Schöpp, Ulrich (*with* Simpson, Alex) Verifying temporal properties using explicit approximants: completeness for context-free processes. (English summary) **2004a:68097**
Schuster, Assaf *see* **Grumberg, Orna et al., (2004j:68007)**
Segala, Roberto *see* **Lynch, Nancy et al., 2004h:68084**
Seidl, Helmut *see* **Genest, Blaise et al.**
Seshia, Sanjit A. *see* **Strichman, Ofer et al.**
Severi, Paula *see* **Fernández, Maribel, (2004k:68006)**
Shahar, Elad *see* **Kesten, Yonit et al., (2004j:68004)**
Shtrichman, Ofer *see* **Rodeh, Yoav, (2004j:68007)**
Siegle, Markus *see* **Hermanns, Holger et al., 2004f:68096**
Sighireanu, Mihaela *see* **Mateescu, Radu, 2004a:68094**
Simmons, Reid G. *see* **Younes, Håkan L. S.**
Simpson, Alex *see* **Schöpp, Ulrich, 2004a:68097**
Sistla, A. Prasad (*with* Godefroid, Patrice) Symmetry and reduced symmetry in model checking. (English summary) (*see* **2004j:68007**)
Sohoni, Milind *see* **Adsul, Bharat, 2004k:68102**
Somenzi, Fabio *see* **Purandare, Mitra** *and* **Gurumurthy, Sankar et al.**
Song, Xiaoyu *see* **Aït Mohamed, Otmane et al., 2004b:68102**
Sorea, Maria A decidable fixpoint logic for time-outs. (English summary) (*see* **2004j:68004**)
Srba, Jiří Undecidability of weak bisimilarity for pushdown processes. (English summary) (*see* **2004j:68004**)
— Note on the tableau technique for commutative transition systems. (English summary) **2004a:68098**
Stärk, Robert F. (*with* Schmid, Joachim) Completeness of a bytecode verifier and a certifying Java-to-JVM compiler. (English summary)
Steffen, Martin *see* **Dams, Dennis et al., (2004j:68007)**
Stirling, Colin *see* **Lange, Martin, 2004a:68089**
Strejček, Jan *see* **Kučera, Antonín[2], 2004m:68161**
Strichman, Ofer (*with* Seshia, Sanjit A.; Bryant, Randal E.) Deciding separation formulas with SAT. (English summary)
Stursberg, Olaf *see* **Clarke, Edmund et al., 2004h:68080**
Su, Jianwen *see* **Fu, Xiang[2] et al., (2004j:68014)**
Sutre, Grégoire *see* **Herbreteau, Frédéric et al., 2004a:68088**
Talbot, Jean-Marc *see* **Charatonik, Witold et al., 2004i:68134**
Tang, Zhi Song *see* **Li, Guang Yuan**
Tateishi, Takaaki (*with* Aoki, Toshiaki; Katayama, Takuya) Behavior approximation method for verifying invariant on statecharts. (Japanese. English and Japanese summaries) **2004e:68068**
Tepper, Carsten *see* **Buchholz, Peter et al., 2004f:68089**
Tesei, Luca *see* **Barbuti, Roberto et al., 2004i:68132**; **2004i:68133**; **2004m:68151** *and* **De Francesco, Nicoletta et al., 2004k:68105**
Theobald, Michael *see* **Clarke, Edmund et al., 2004h:68080**
Thiagarajan, P. S. *see* **Madhusudan, P., 2004c:68085** *and* **(2004j:68004)**
Timofeeva, M. K. *see* **Moskvitin, A. A.**
Tini, Simone *see* **Lanotte, Ruggero et al., 2004i:68138**
Tiuryn, Jerzy Hoare logic: from first-order to propositional formalism. **2004h:68085**

Toporkov, V. V. The question of the decidability of the analysis problem for dataflow models of programs. (Russian. Russian summary) **2004f:68100**
Touili, Tayssir *see* **Bouajjani, Ahmed**
Treur, Jan *see* **Engelfriet, Joeri et al., 2004d:68085**
Truderung, Tomasz *see* **Marcinkowski, Jerzy, 2004m:68164**
Tseĭtlin, G. E. *see* **Doroshenko, A. E.**
Turuani, Mathieu *see* **Laroussinie, F. et al., 2004c:68084**
Vaandrager, Frits *see* **Lynch, Nancy et al., 2004h:68084**
Vaglini, Gigliola *see* **Santone, Antonella, 2004b:68106**
Vakarelov, Dimitʳr *see* **Balbiani, Philippe**
Valiev, M. K. *see* **Dekhtyar, Mikhail I. et al., 2004f:68090**
Valmari, Antti (*with* Kervinen, Antti) Alphabet-based synchronisation is exponentially cheaper. (English summary) (*see* **2004j:68004**)
Van Begin, Laurent *see* **Delzanno, Giorgio et al., (2004j:68007)**
Vardi, Moshe Y. *see* **Peled, Doron et al., 2004g:68112**; **Chockler, Hana et al., (2004j:68007)** *and* **Kupferman, Orna et al.**
Veith, Helmut *see* **Samer, Marko, 2004m:68170**
Villemaire, Roger An approximation semantics for the propositional mu-calculus. (English summary)
Viswanathan, Mahesh (*with* Viswanathan, Ramesh) Foundations for circular compositional reasoning. (English summary)
Viswanathan, Ramesh *see* **Viswanathan, Mahesh**
Vogler, Walter *see* **Khomenko, Victor et al.**
Volkov, V. A. *see* **Letichevskiĭ, Aleksandr Adol′fovich et al., 2004g:68110**
Vorob′ev, S. G. *see* **Björklund, Henrik et al., 2004m:68153**
Voronkov, Andrei *see* **Rybina, T. V., 2004m:68169**
Wabenhorst, Axel Induction in the timed interval calculus. (English summary) **2004f:68101**
Walukiewicz, Igor Local logics for traces. (English summary) **2004f:68102**
— *see also* **Bernet, Julien et al., 2004j:68112**
Wang, Farn (*with* Yen, Hsu-Chun) Timing parameter characterization of real-time systems. (English summary) (*see* **2004j:68014**)
— (*with* Hwang, Geng-Dian; Yu, Fang) TCTL inevitability analysis of dense-time systems. (English summary) (*see* **2004j:68014**)
Wilke, Thomas *see* **Küsters, Ralf, 2004k:68112** *and* **Kähler, Detlef, 2004m:68159**
de Wind, Paulien *see* **Fokkink, Willem Jan et al.**
Wolff, Burkhart *see* **Brucker, Achim D.**
Worrell, James *see* **van Breugel, Franck**
Woźna, Bożena (*with* Zbrzezny, Andrzej; Penczek, Wojciech) Checking reachability properties for timed automata via SAT. (English summary) **2004i:68141**
— *see also* **Penczek, Wojciech et al., 2004i:68139**
Xie, Gaoyan (*with* Li, Cheng; Dang, Zhe) New complexity results for some linear counting problems using minimal solutions to linear Diophantine equations (extended abstract). (English summary) (*see* **2004j:68014**)
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Yariv, Yael *see* **Kaminski, Michael, 2004m:68160**
Yen, Hsu-Chun *see* **Wang, Farn, (2004j:68014)**
Ying, Ming-Sheng Reasoning about probabilistic sequential programs in a probabilistic logic. (English summary) **2004c:68086**
Younes, Håkan L. S. (*with* Simmons, Reid G.) Probabilistic verification of discrete event systems using acceptance sampling. (English summary)
Yu, Fang *see* **Wang, Farn et al., (2004j:68014)**
Zbrzezny, Andrzej *see* **Penczek, Wojciech et al., 2004i:68139** *and* **Woźna, Bożena et al., 2004i:68141**
Zeitoun, Marc *see* **Genest, Blaise et al.**
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Anureev, I. S. *see* **Nepomnyashchiĭ, V. A. et al.**
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Backhouse, Roland Galois connections and fixed point calculus. (English summary) (*see* **2004d:68001**)
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Benmohamed, Mohamed *see* **Rebaiaia, Mohamed Larbi et al.**
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(Berry, Gérard) *see* **Computer aided verification, 2004j:68007**
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Biere, Armin *see* **Plaisted, David A. et al., 2004i:68088**
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Birkedal, Lars *see* **Awodey, Steven et al., 2004a:03078**
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Blumensath, Achim Axiomatising tree-interpretable structures. (English summary) **2004m:03115**
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Bouyer, Patricia (*with* Petit, Antoine) A Kleene/Büchi-like theorem for clock languages. (English summary) **2004d:68069**
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Bowman, Howard (*with* Thompson, Simon) A decision procedure and complete axiomatization of finite interval temporal logic with projection. (English summary) **2004c:03019**
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Bruni, Roberto (*with* Laneve, Cosimo; Montanari, Ugo) Orchestrating transactions in join calculus. (English summary) (*see* **2004j:68004**)
Bueno, F. *see* **Hermenegildo, M. et al.**
(Burkhard, Hans-Dieter) *see* **Concurrency specification and programming** *and* **Special Issue: Concurrency specification and programming**
Cabodi, Gianpiero Meta-BDDs: a decomposed representation for layered symbolic manipulation of Boolean functions. (English summary) (*see* **2004j:68007**)
Cachat, Thierry Two-way tree automata solving pushdown games.
Caillaud, Benoît *see* **Hélouët, Loïc et al., 2004a:68108**
Cardelli, Luca *see* **Gordon, Andrew D., 2004d:68100**
Castellini, Claudio (*with* Giunchiglia, Enrico; Tacchella, Armando) SAT-based planning in complex domains: concurrency, constraints and nondeterminism. (English summary) **2004e:68093**
Cattani, Stefano (*with* Segala, Roberto) Decision algorithms for probabilistic bisimulation. (English summary) (*see* **2004j:68004**)
Caucal, Didier On infinite terms having a decidable monadic theory. (English summary)
Cazorla, Diego (*with* Cuartero, Fernando; Valero Ruiz, Valentín; López Pelayo, Fernando; Pardo, J. José) Algebraic theory of probabilistic and nondeterministic processes. (English summary) **2004c:68093**
Celani, Sergio Arturo A fragment of intuitionistic dynamic logic. (English summary) **2004g:03051**
Cervesato, Iliano (*with* Pfenning, Frank) A linear logical framework. (English summary) **2004b:03016**
Chechik, Marsha *see* **Devereux, Benet, 2004d:68019**
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Chetcuti-Sperandio, Nathalie Tableau-based automated deduction for duration calculus. (English summary) (*see* **2004k:68003**)

Cheung, To-Yat *see* **Jiao, Li**, **2004h:68097**

Cimatti, A. (*with* Pistore, M.; Roveri, M.; Traverso, P.) Weak, strong, and strong cyclic planning via symbolic model checking. (English summary) **2004f:68140**

Cîrstea, Corina On specification logics for algebra-coalgebra structures: reconciling reachability and observability. (English summary) **2004b:68107**

Colmerauer, Alain (*with* Dao, Thi-Bich-Hanh) Expressiveness of full first-order constraints in the algebra of finite or infinite trees. (English summary) **2004j:03039**

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Corradini, Flavio (*with* Di Cola, Dino) The expressive power of urgent, lazy and busy-waiting actions in timed processes. (English summary) **2004i:68156**

Cortier, Véronique *see* **Comon-Lundh, Hubert**

Coupet-Grimal, Solange An axiomatization of linear temporal logic in the calculus of inductive constructions. (English summary) **2004m:03066**

Crary, Karl *see* **Constable, Robert L.**, **2004a:03017**

Cuartero, Fernando *see* **Cazorla, Diego et al.**, **2004c:68093**

Czaja, Ludwik (*with* Kudlek, Manfred) ω-process languages for place/transition nets. (English summary) **2004k:68123**

— Place/transition Petri net evolutions: recording ways, analysis and synthesis. (English summary) **2004i:68157**

— Proving nets correct via cause-effect structures (an experiment). (English summary) **2004i:68158**

— *see also* **Concurrency specification and programming** *and* **Special Issue: Concurrency specification and programming**

Dang, Zhe *see* **San Pietro, Pierluigi**

Dao, Thi-Bich-Hanh *see* **Colmerauer, Alain**, **2004j:03039**

Dean, Thomas *see* **Givan, Robert et al.**, **2004f:68142**

Debbabi, Mourad *see* **Adi, Kamel et al.**, **2004b:94054**

De Francesco, Nicoletta *see* **Barbuti, Roberto et al.**

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Desharnais, Josée (*with* Gupta, Vineet; Jagadeesan, Radha; Panangaden, Prakash) Approximating labelled Markov processes. (English summary) **2004c:68096**

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Di Cola, Dino *see* **Corradini, Flavio**, **2004i:68156**

Dikovskiĭ, A. Ya. *see* **Dekhtyar, Mikhail I. et al.**, (**2004j:68015**)

Dima, Cătălin Distributed real-time automata. (English summary) (*see* **2004i:00018**)

Dinneen, Michael J. *see* **Bodlaender, Hans L. et al.**, **2004h:03084**

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Drechsler, Rolf *see* **Schmiedle, Frank et al.**, **2004a:68011**

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Duparc, Jacques Positive games and persistent strategies. (English summary) **2004m:03145**

Eshuis, Rik (*with* Fokkinga, Maarten M.) Comparing refinements for failure and bisimulation semantics. (English summary) **2004g:68121**

Esparza, Javier (*with* Schröter, Claus) Unfolding based algorithms for the reachability problem. (English summary) **2004i:68159**

— *see also* **Bouajjani, Ahmed et al.**, **2004h:68095**

Etessami, Kousha A hierarchy of polynomial-time computable simulations for automata. (English summary) (*see* **2004j:68004**)

— *see also* **Alur, Rajeev et al.**, (**2004j:68007**)

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Filliâtre, Jean-Christophe Verification of non-functional programs using interpretations in type theory. (English summary) **2004h:68022**

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Fisher, Michael D. *see* **Temporal representation and reasoning (TIME)** *and* **Degtyarëv, Anatoliĭ Ivanovich et al.**, (**2004k:68003**)

Fisler, Kathi Diagrams and computational efficacy. (English summary) (*see* **2004c:03003**)

Fokkinga, Maarten M. *see* **Eshuis, Rik**, **2004g:68121**

Foo, Norman (*with* Zhang, Dong Mo[1]) Dealing with the ramification problem in extended propositional dynamic logic. (English summary) **2004j:68164**

(Franconi, Enrico) *see* **Temporal representation and reasoning (TIME)**

Frias, Marcelo Fabián ★ Fork algebras in algebra, logic and computer science. (English summary) **2004b:03112**

Fritz, Carsten (*with* Wilke, Thomas) State space reductions for alternating Büchi automata: quotienting by simulation equivalences. (English summary) **2004k:68089**

(Gastin, Paul) *see* **Logic and algebra for concurrency**

Gaujal, Bruno (*with* Haar, Stefan; Mairesse, Jean) Blocking a transition in a free choice net and what it tells about its throughput. (English summary) **2004c:68098**

Gava, Frédéric Formal proofs of functional BSP programs. (English summary) **2004i:68033**

Gheorghe, Marian *see* **Bălănescu, Tudor et al.**, **2004d:68017** *and* **Ipate, Florentin et al.**, **2004i:68054**

Gibbons, Jeremy Calculating functional programs. (English summary) (*see* **2004d:68001**)

— *see also* **Bird, Richard S. et al.**, (**2004d:68001**)

Giunchiglia, Enrico *see* **Castellini, Claudio et al.**, **2004e:68093**

Givan, Robert (*with* Dean, Thomas; Greig, Matthew) Equivalence notions and model minimization in Markov decision processes. (English summary) **2004f:68142**

Gordon, Andrew D. (*with* Cardelli, Luca) Equational properties of mobile ambients. (English summary) **2004d:68100**

Graciani Díaz, C. (*with* Martín Mateos, F. J.; Pérez Jiménez, Mario J.) Specification of Adleman's restricted model using an automated reasoning system: verification of Lipton's experiment. (English summary) (*see* **2004j:68023**)

Greig, Matthew *see* **Givan, Robert et al.**, **2004f:68142**

Groote, Jan Friso *see* **Reniers, M. A. et al.**, **2004h:68099**

Gruska, Damas P. (*with* Maggiolo-Schettini, Andrea) Process algebras for network communication. (English summary)

(Gruska, Jozef) *see* **Logics of formal specification languages**

Günther, Wolfgang *see* **Schmiedle, Frank et al.**, **2004a:68011**

Gupta, Vineet *see* **Desharnais, Josée et al.**, **2004c:68096**

Gustavsson, Rune *see* **Brazier, Frances et al.**

Haar, Stefan *see* **Gaujal, Bruno et al.**, **2004c:68098**

Hansen, René Rydhof *see* **Nielson, Flemming et al.**, **2004f:68088**

Hasnah, Ahmad M. *see* **Rebaiaia, Mohamed Larbi et al.**

Hayes, Ian *see* **Colvin, Robert et al.**, (**2004k:68006**)

Hélouët, Loïc (*with* Jard, Claude; Caillaud, Benoît) An event structure based semantics for high-level message sequence charts. (English summary) **2004a:68108**

Hemer, David *see* **Colvin, Robert et al.**, (**2004k:68006**)

Hermenegildo, M. (*with* Puebla, G.; Bueno, F.; López-Garcia, P.) Program debugging and validation using semantic approximations and partial specifications.

Hidalgo, M. J. *see* **Martín Mateos, F. J. et al.**, (**2004k:68006**)

Hirschkoff, Daniel *see* **Röckl, Christine**

Hirshfeld, Yoram (*with* Rabinovich, Alexander) Future temporal logic needs infinitely many modalities. (English summary) **2004m:03068**

Hoare, C. A. R. Assertions: a personal perspective. (English summary) **2004c:68002**

van der Hoek, Wiebe (*with* Wooldridge, Michael) Cooperation, knowledge, and time: alternating-time temporal epistemic logic and its applications. (English summary) **2004m:03069**

Holcombe, Mike *see* **Bălănescu, Tudor et al.**, **2004d:68017** *and* **Ipate, Florentin et al.**, **2004i:68054**

Honda, Kohei *see* **Yoshida, Nobuko et al.**, **2004d:68105**

Howe, Jacob M. *see* **Simon, Axel et al.**, (**2004k:68006**)

Hoyrup, Mathieu *see* **Bournez, Olivier**

Hurd, Joe Verification of the Miller-Rabin probabilistic primality test. (English summary) **2004h:11110**

Hütten, Patrick *see* **Wallmeier, Nico et al.**, (**2004j:68014**)

Immerman, Neil *see* **Adler, Micah**, **2004f:68043**

Ipate, Florentin (*with* Gheorghe, Marian; Holcombe, Mike) Testing (stream) X-machines. (English summary) **2004i:68054**

— *see also* **Bălănescu, Tudor et al.**, **2004d:68017**

Jaam, Jihad Mohamad *see* **Rebaiaia, Mohamed Larbi et al.**

Jacobs, Bart Exercises in coalgebraic specification. (English summary) (*see* **2004d:68001**)

Jacquet, Jean-Marie *see* **Brogi, Antonio**, **2004a:68105**

Jagadeesan, Radha *see* **Desharnais, Josée et al.**, **2004c:68096**

Jard, Claude *see* **Hélouët, Loïc et al.**, **2004a:68108**

Jiang, Chang Jun *see* **Du, Yu Yue**

Jiao, Li (*with* Cheung, To-Yat) Characterizing liveness monotonicity for weighted Petri nets in terms of siphon-based properties. (English summary) **2004h:68097**

Jin, Cheng Zhi *see* **Jin, Ying**, **2004b:68117**

Jin, Ying (*with* Jin, Cheng Zhi) Translating γ-calculus into action calculus. (Chinese. English and Chinese summaries) **2004b:68117**

Jones, Cliff B. The early search for tractable ways of reasoning about programs. (English summary) **2004c:68003**

Jonker, Catholijn M. (*with* Treur, Jan; de Vries, Wieke) Reuse and abstraction in verification: agents acting in dynamic environments.

— *see also* **Brazier, Frances et al.**

Kacprzak, Magdalena A complete axiomatization of process temporal logic. (English summary) **2004g:03030**

Kaplan, Adam *see* **Bozorgzadeh, Elaheh et al.**, (**2004f:90010**)

Kastner, Ryan *see* **Bozorgzadeh, Elaheh et al.**, (**2004f:90010**)

Khoussainov, Bakhadyr (*with* Nerode, Anil) ★ Automata theory and its applications. (English summary) **2004e:03073**

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— On algebraic and logical specifications of classes of regular languages. (English summary) **2004d:68075**

— *see also* **Bodlaender, Hans L. et al.**, **2004h:03084**

King, Andrew Malcolm *see* **Simon, Axel et al.**, (**2004k:68006**)

Kirsten, Daniel Alternating tree automata and parity games.

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— *see also* **Ayari, Abdelwaheb et al.**, **2004c:68064**

Klauck, Hartmut Algorithms for parity games.

Klaudel, Hanna (*with* Pommereau, Franck) A class of composable and preemptible high-level Petri nets with an application to multi-tasking systems. (English summary) **2004f:68109**

Knapik, Teodor (*with* Niwiński, Damian; Urzyczyn, Paweł) Higher-order pushdown trees are easy. (English summary) **2004a:03020**
Kobayashi, Naoki A type system for lock-free processes. (English summary) **2004c:68101**
Konev, Boris *see* **Degtyarëv, Anatoliĭ Ivanovich et al.**, (**2004k:68003**)
Koutny, Maciej (*with* Pappalardo, Giuseppe) Behaviour abstraction for communicating sequential processes. (English summary) **2004g:68123**
Kowalski, Tomasz[1] *see* **Khoussainov, Bakhadyr**, **2004m:03146**
Kozen, Dexter Automata on guarded strings and applications. (English summary) **2004k:68095**
Kreitz, Christoph Building reliable, high-performance networks with the Nuprl proof development system. (English summary)
Krishnan, Padmanabhan Decomposing timed push down automata. (English summary)
Krivoĭ, S. L. (*with* Matveeva, L. E.) Formal methods for the analysis of the properties of systems. (Russian. English and Ukrainian summaries)
Kučera, Antonín[2] (*with* Mayr, Richard) On the complexity of semantic equivalences for pushdown automata and BPA. (English summary)
Kudlek, Manfred *see* **Czaja, Ludwik**, **2004k:68123**
Kurkowski, Mirosław The completeness theorem for a logic of authentication. (English summary) **2004i:03058**
Kurz, Alexander Logics admitting final semantics. (English summary) **2004a:03034**
Kuske, Dietrich (*with* Meinecke, Ingmar) Branching automata with costs—a way of reflecting parallelism in costs. (English summary) (*see* **2004j:68014**)
Laneve, Cosimo *see* **Bruni, Roberto et al.**, (**2004j:68004**)
Lanotte, Ruggero (*with* Maggiolo-Schettini, Andrea; Tini, Simone) Concurrency in timed automata. (English summary) **2004j:68134**
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Lasota, Sławomir Decidability of strong bisimilarity for timed BPP. (English summary) (*see* **2004j:68004**)
(Leuschel, Michael) *see* **Logic based program synthesis and transformation**, **2004k:68006**
Levin, Michael Y. (*with* Pierce, Benjamin C.) TinkerType: a language for playing with formal systems. (English summary)
Lin, Hui Min Complete inference systems for weak bisimulation equivalences in the π-calculus. (English summary) **2004d:68101**
Lindeberg, Olle *see* **Brazier, Frances et al.**
(Lindemann, Gabriela) *see* **Special Issue: Concurrency specification and programming**
Lomazova, Irina A. Nested Petri nets: multi-level and recursive systems. (English summary) **2004i:68165**
— *see also* **Bashkin, Vladimir A.**, **2004i:68153**
López-Garcia, P. *see* **Hermenegildo, M. et al.**
López Pelayo, Fernando *see* **Cazorla, Diego et al.**, **2004c:68093**
Lucanu, Dorel Initial logic and induction in algebraic specification. (English summary) **2004g:68115**
— On bisimulation in hiddenCCS. (English summary)
Łukaszewicz, Witold (*with* Madalińska-Bugaj, Ewa) Reasoning about action and change using Dijkstra's semantics for programming languages.
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Lüttgen, Gerald (*with* Mendler, Michael) Axiomatizing an algebra of step reactions for synchronous languages. (English summary) (*see* **2004j:68004**)
Madalińska-Bugaj, Ewa *see* **Łukaszewicz, Witold**
Madhusudan, P. *see* **D'Souza, Deepak**, (**2004j:68020**)
Maggiolo-Schettini, Andrea *see* **Lanotte, Ruggero et al.**, **2004j:68099**; **2004j:68134** *and* **Gruska, Damas P.**
Mairesse, Jean *see* **Gaujal, Bruno et al.**, **2004c:68098**
Majster-Cederbaum, Mila (*with* Wu, Jinzhao) Towards action refinement for true concurrent real time. (English summary) **2004f:68110**
Maler, Oded *see* **Abdeddaïm, Yasmina**, (**2004j:68007**)
Mao, Jian Feng (*with* Zhao, Qian Chuan) Verification algorithms for asynchronous circuits. (Chinese. English and Chinese summaries)
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Martelli, Maurizio *see* **Mascardi, Viviana et al.**
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— *see also* **Graciani Díaz, C. et al.**, (**2004j:68023**)
Marx, Maarten XPath and modal logics of finite DAG's. (English summary) (*see* **2004k:03007**)
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Matveeva, L. E. *see* **Krivoĭ, S. L.**
Mayr, Richard *see* **Kučera, Antonín[2]**
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McIver, Annabelle (*with* Morgan, Carroll C.) Almost-certain eventualities and abstract probabilities in the quantitative temporal logic qTL. (English summary) **2004i:68066**
Meinecke, Ingmar *see* **Kuske, Dietrich**, (**2004j:68014**)
Mejri, Mohamed *see* **Adi, Kamel et al.**, **2004b:94054**
Memik, Seda Ogrenci *see* **Bozorgzadeh, Elaheh et al.**, (**2004f:90010**)
Mendler, Michael *see* **Lüttgen, Gerald**, (**2004j:68004**)
Meyer, John-Jules Ch. *see* **Broersen, Jan et al.**, **2004i:68199**
Mikhaĭlov, I. N. *see* **Nepomnyashchiĭ, V. A. et al.**
Miller, Dale A. (*with* Tiu, Alwen) Encoding generic judgments. (English summary) **2004k:68100**
Milo, Tova (*with* Suciu, Dan; Vianu, Victor) Typechecking for XML transformers. (English summary) **2004e:68116**
Montanari, Ugo *see* **Bruni, Roberto et al.**, (**2004j:68004**)
Morgan, Carroll C. *see* **McIver, Annabelle**, **2004i:68066**
Mossakowski, Till Heterogeneous development graphs and heterogeneous borrowing. (English summary) **2004b:68029**
Mu, Shin-Cheng *see* **Bird, Richard S. et al.**, (**2004d:68001**)
Nanchen, Stanislas *see* **Stärk, Robert F.**, **2004g:68041**
Necula, George C. Proof-carrying code. Design and implementation. (English summary) **2004g:68022**
Nepomnyashchiĭ, V. A. (*with* Anureev, I. S.; Mikhaĭlov, I. N.; Promskiĭ, A. V.) On a path to the verification of C-programs. The C-light language and its formal semantics. (Russian. Russian summary)
Nerode, Anil *see* **Khoussainov, Bakhadyr**, **2004e:03073**
Nielson, Flemming (*with* Hansen, René Rydhof; Nielson, Hanne Riis) Abstract interpretation of mobile ambients. (English summary) **2004f:68088**
Nielson, Hanne Riis *see* **Nielson, Flemming et al.**, **2004f:68088**
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(Nipkow, Tobias) *see* **Java bytecode verification**
Niwiński, Damian μ-calculus via games (extended abstract). (*see* **2004j:68008**)
— *see also* **Knapik, Teodor et al.**, **2004a:03020**
Panangaden, Prakash *see* **Desharnais, Josée et al.**, **2004c:68096**
Pappalardo, Giuseppe *see* **Koutny, Maciej**, **2004g:68123**
Pappas, George J. *see* **Tabuada, Paulo**, **2004m:93006**
Pardo, J. José *see* **Cazorla, Diego et al.**, **2004c:68093**
Pérez Jiménez, Mario J. (*with* Sancho Caparrini, Fernando) A formalization of transition P systems. (English summary) **2004j:68059**
— *see also* **Graciani Díaz, C. et al.**, (**2004j:68023**)
Petit, Antoine *see* **Bouyer, Patricia et al.**, **2004d:68069** *and* **2004h:68087**
Pettorossi, Alberto *see* **Fioravanti, Fabio et al.**, (**2004k:68006**)
Pfenning, Frank Logical frameworks—a brief introduction. (English summary) **2004g:03024**
— *see also* **Cervesato, Iliano**, **2004b:03016**
Pierce, Benjamin C. *see* **Levin, Michael Y.**
Pistore, M. *see* **Cimatti, A. et al.**, **2004f:68140**
Plaisted, David A. (*with* Biere, Armin; Zhu, Yunshan) A satisfiability procedure for quantified Boolean formulae. (English summary) **2004i:68088**
Podlovchenko, R. I. On program schemes with commuting and monotone operators. (Russian. Russian summary)
Polak, Bianca *see* **Brazier, Frances et al.**
Pommereau, Franck *see* **Klaudel, Hanna**, **2004f:68109**
Popova-Zeugmann, Louchka (*with* Werner, Matthias; Richling, Jan) Using state equation to prove non-reachability in timed Petrinets. (English summary) **2004j:68135**
— *see also* **Richling, Jan et al.**
Proietti, Maurizio *see* **Fioravanti, Fabio et al.**, (**2004k:68006**)
Promskiĭ, A. V. *see* **Nepomnyashchiĭ, V. A. et al.**
Puebla, G. *see* **Hermenegildo, M. et al.**
Qi, Zhi Chang *see* **Dong, Wei[2] et al.**
(de Queiroz, Ruy J. G. B.) *see* **Logic for concurrency and synchronisation**, **2004f:03055**
Rabinovich, Alexander *see* **Hirshfeld, Yoram**, **2004m:03068**
Räsch, Thoralf Introduction to guarded logics.
Rebaiaia, Mohamed Larbi (*with* Benmohamed, Mohamed; Jaam, Jihad Mohamad; Hasnah, Ahmad M.) Verification-based algorithms for integer programming and genetic algorithms. (English summary)
Reinhardt, Klaus The complexity of translating logic to finite automata.
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Reniers, M. A. (*with* Groote, Jan Friso; van der Zwaag, M. B.; van Wamel, J.) Completeness of timed μCRL. (English summary) **2004h:68099**
Reynolds, Mark Alexander The complexity of the temporal logic with "until" over general linear time. (English summary) **2004f:03026**
Richling, Jan (*with* Popova-Zeugmann, Louchka; Werner, Matthias) Verification of non-functional properties of a composable architecture with Petrinets. (English summary)
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Roggenbach, Markus Determinization of Büchi-automata.
Rohde, Philipp Expressive power of monadic second-order logic and modal μ-calculus.
Roveri, M. *see* **Cimatti, A. et al.**, **2004f:68140**
Ruiz-Reina, J. L. *see* **Martín Mateos, F. J. et al.**, (**2004k:68006**)
Sabbadin, Michela (*with* Zanardo, Alberto) Topological aspects of branching-time semantics. (English summary) **2004k:03039**
Sancho Caparrini, Fernando *see* **Pérez Jiménez, Mario J.**, **2004j:68059**
San Pietro, Pierluigi (*with* Dang, Zhe) Automatic verification of multi-queue discrete timed automata. (English summary)
Santocanale, Luigi A calculus of circular proofs and its categorical semantics. (English summary) **2004b:03096**
Santone, Antonella *see* **Barbuti, Roberto et al.**
Sarrafzadeh, Majid *see* **Bozorgzadeh, Elaheh et al.**, (**2004f:90010**)
Sattler, Ulrike *see* **Demri, Stéphane**, **2004f:68040**
Schellhorn, Gerhard Verification of ASM refinements using generalized forward simulation. (English summary) **2004g:68040**
Schmidt, Karsten Narrowing Petri net state spaces using the state equation. (English summary) **2004i:68169**
Schmiedle, Frank (*with* Günther, Wolfgang; Drechsler, Rolf) Dynamic re-encoding during MDD minimization. (English summary) **2004a:68011**
Schnoebelen, Ph. *see* **Masson, Benoît**
Schröter, Claus *see* **Esparza, Javier**, **2004i:68159**
(Schwichtenberg, Helmut) *see* **Proof and system-reliability**, **2004d:68003**
Schwoon, Stefan Determinization and complementation of Streett automata.
Scott, Dana S. *see* **Awodey, Steven et al.**, **2004a:03078**

Scozzari, Francesca *see* **Amato, Gianluca**, (**2004k:68006**)
Segala, Roberto *see* **Cattani, Stefano**, (**2004j:68004**)
Serre, Olivier Vectorial languages and linear temporal logic. (English summary) **2004m:68141**
Shalit, Steven *see* **van Breugel, Franck et al.**
Shkīl'nyak, Stepan S. *see* **Nikitchenko, N. S.**, **2004j:03042**
Simon, Axel (*with* King, Andrew Malcolm; Howe, Jacob M.) Two variables per linear inequality as an abstract domain. (English summary) (*see* **2004k:68006**)
Sintzoff, Michel On the design of correct and optimal dynamical systems and games. (English summary)
Spathopoulos, Michael P. On a simplified untiming procedure for supervisory control of timed automata when the time increases strictly monotonically. (English summary) **2004j:93076**
Spielmann, Marc Verification of relational transducers for electronic commerce. (English summary) **2004d:68171**
Srba, Jiří Strong bisimilarity and regularity of basic parallel processes is PSPACE-hard. (English summary) **2004m:68182**
— Complexity of weak bisimilarity and regularity for BPA and BPP. (English summary) **2004j:68136**
Stark, Eugene W. On behaviour equivalence for probabilistic I/O automata and its relationship to probabilistic bisimulation. (English summary) **2004h:68075**
Stärk, Robert F. (*with* Nanchen, Stanislas) A logic for abstract state machines. (English summary) **2004g:68041**
(Starke, Peter) *see* **Concurrency specification and programming** *and* **Special Issue: Concurrency specification and programming**
Stefanescu, G. Algebra of networks. (English summary) **2004h:68100**
(Steinbrüggen, Ralf) *see* **Proof and system-reliability**, **2004d:68003**
Sterling, Leon *see* **Mascardi, Viviana et al.**
Strooper, Paul *see* **Colvin, Robert et al.**, (**2004k:68006**)
Suciu, Dan *see* **Milo, Tova et al.**, **2004e:68116**
Tabuada, Paulo (*with* Pappas, George J.) Bisimilar control affine systems. (English summary) **2004m:93006**
Tacchella, Armando *see* **Castellini, Claudio et al.**, **2004e:68093**
Terlikowski, Tomasz A logical approach to control. Some new logical concepts and their application to the notion of safety for control variants. (English summary) **2004e:93004**
— A logical approach to control. The concept of inner implication. (English summary) **2004g:93014**
— Descriptional independence and the formal definition of sequential control structure. (English summary) **2004g:93015**
Tesei, Luca *see* **Barbuti, Roberto et al.**
Thérien, Denis (*with* Wilke, Thomas) Nesting until and since in linear temporal logic. (English summary) **2004m:03070**
— *see also* **Bouyer, Patricia et al.**, **2004h:68087**
Thomas, Wolfgang A short introduction to infinite automata. (English summary) **2004a:68083**
— *see also* **Wallmeier, Nico et al.**, (**2004j:68014**)
Thompson, Simon *see* **Bowman, Howard**, **2004c:03019**
Tini, Simone *see* **Lanotte, Ruggero et al.**, **2004j:68099** *and* **2004j:68134**
Tiu, Alwen *see* **Miller, Dale A.**, **2004k:68100**
Touili, Tayssir *see* **Bouajjani, Ahmed et al.**, **2004h:68095**
Traverso, P. *see* **Cimatti, A. et al.**, **2004f:68140**
Treur, Jan *see* **Jonker, Catholijn M. et al.** *and* **Brazier, Frances et al.**
Urzyczyn, Paweł *see* **Knapik, Teodor et al.**, **2004a:03020**
Valero Ruiz, Valentín *see* **Cazorla, Diego et al.**, **2004c:68093**
Valiev, M. K. *see* **Dekhtyar, Mikhail I. et al.**, (**2004j:68015**)
Van Wyk, Eric Specification languages in algebraic compilers. (English summary) **2004d:68016**
Varpaaniemi, Kimmo Minimizing the number of successor states in the stubborn set method. (English summary) **2004i:68171**
Velev, Miroslav N. Automatic abstraction of equations in a logic of equality. (English summary) (*see* **2004k:03007**)
Vianu, Victor *see* **Milo, Tova et al.**, **2004e:68116**
Vincent, Aymeric *see* **Arnold, André et al.**, **2004h:93121**
Vogler, Walter (*with* Wollowski, Ralf) Decomposition in asynchronous circuit design. (English summary) (*see* **2004j:68011**)
Völzer, Hagen Refinement-robust fairness. (English summary) (*see* **2004j:68004**)
de Vries, Wieke *see* **Jonker, Catholijn M. et al.**
Wabenhorst, Axel Stepwise development of fair distributed systems. (English summary) **2004h:68023**
Wallmeier, Nico (*with* Hütten, Patrick; Thomas, Wolfgang) Symbolic synthesis of finite-state controllers for request-response specifications. (English summary) (*see* **2004j:68014**)
Walukiewicz, Igor *see* **Arnold, André et al.**, **2004h:93121**
van Wamel, J. *see* **Reniers, M. A. et al.**, **2004h:68099**
(Wang, Farn) *see* **Verification and analysis of infinite state systems**
Wang, Hanpin (*with* Xu, Qiwen) Completeness of temporal logics over infinite intervals. (English summary) **2004m:03071**
Wang, Ji *see* **Dong, Wei[2] et al.**
Werner, Matthias *see* **Popova-Zeugmann, Louchka et al.**, **2004j:68135** *and* **Richling, Jan et al.**
Weyer, Mark Decidability of S1S and S2S.
Wieringa, Roel *see* **Broersen, Jan et al.**, **2004i:68199**
Wilke, Thomas *see* **Fritz, Carsten**, **2004k:68089** *and* **Thérien, Denis**, **2004m:03070**
Winkowski, Józef Reachability in contextual nets. (English summary) **2004i:68172**
Wollowski, Ralf *see* **Vogler, Walter**, (**2004j:68011**)
Wooldridge, Michael *see* **van der Hoek, Wiebe**, **2004m:03069**
Worrell, James *see* **van Breugel, Franck et al.**
Wu, Jinzhao *see* **Majster-Cederbaum, Mila**, **2004f:68110**
Xu, Qiwen *see* **Wang, Hanpin**, **2004m:03071**
Yannakakis, Mihalis *see* **Alur, Rajeev et al.**, (**2004j:68007**)
Yen, Hsu-Chun (*with* Yu, Lien-Po) Petri nets with simple circuits. (English summary)
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Yoshida, Nobuko (*with* Honda, Kohei; Berger, Martin Friedrich) Linearity and bisimulation. (English summary) **2004d:68105**
Yu, Lien-Po *see* **Yen, Hsu-Chun**
Zanardo, Alberto *see* **Sabbadin, Michela**, **2004k:03039**
Zappe, Júlia Modal μ-calculus and alternating tree automata.
Zhang, Dong Mo[1] *see* **Foo, Norman**, **2004j:68164**
Zhao, Qian Chuan *see* **Mao, Jian Feng**
Zhu, Yunshan *see* **Plaisted, David A. et al.**, **2004i:68088**
van der Zwaag, M. B. *see* **Reniers, M. A. et al.**, **2004h:68099**

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Berlin ★ Special issue on concurrency specification and programming.
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Coalgebraic methods in computer science ★ Coalgebraic methods in computer science.
Computer aided verification ★ Computer aided verification. **2004j:68007**
Concurrency specification and programming ★ Concurrency specification and programming.
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Gruska, Jozef ★ Logics of formal specification languages.
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Logic and algebra for concurrency ★ Logic and algebra for concurrency.
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Madrid ★ Logic based program synthesis and transformation. **2004k:68006**
Manchester ★ Temporal representation and reasoning (TIME).
Marktoberdorf ★ Proof and system-reliability. **2004d:68003**
Paris ★ Computer aided verification. **2004j:68007**
Proof and system-reliability ★ Proof and system-reliability. **2004d:68003**
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Concurrency specification and programming ★ Special issue on concurrency specification and programming.
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68Q65 Abstract data types; algebraic specification [see also 18C50]

Abbott, Michael (*with* Altenkirch, Thorsten; Ghani, Neil; McBride, Conor) Derivatives of containers. (English summary) (*see* **2004j:68021**)
Abel, Andreas (*with* Matthes, Ralph) (Co-)iteration for higher-order nested datatypes. (English summary)
Aczel, Peter Algebras and coalgebras. (*see* **2004d:68001**)
Adámek, Jiří (*with* Porst, Hans-E.) On tree coalgebras and coalgebra presentations. (English summary) **2004j:68118**
Altenkirch, Thorsten *see* **Abbott, Michael et al.**, (**2004j:68021**)
Backhouse, Roland Galois connections and fixed point calculus. (English summary) (*see* **2004d:68001**)
— *see also* **Doornbos, Henk**, (**2004d:68001**)
Berregeb, Narjes (*with* Robbana, Riadh; Tiwari, Ashish) Towards automated proofs of observational properties. (English summary) **2004k:68114**
Bidoit, Michel (*with* Hennicker, Rolf; Kurz, Alexander) Observational logic, constructor-based logic and their duality. (English summary) **2004d:68090**
Bird, Richard S. (*with* Gibbons, Jeremy; Mu, Shin-Cheng) Algebraic methods for optimization problems. (English summary) (*see* **2004d:68001**)
Borzyszkowski, Tomasz Logical systems for structured specifications. (English summary) **2004g:68114**
Cîrstea, Corina On specification logics for algebra-coalgebra structures: reconciling reachability and observability. (English summary) **2004b:68107**
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Diaconescu, Răzvan (*with* Futatsugi, Kokichi; Ogata, Kazuhiro) CafeOBJ: logical foundations and methodologies. (English summary)
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Doornbos, Henk (*with* Backhouse, Roland) Algebra of program termination. (English summary) (*see* **2004d:68001**)
Dzierzon, Christian (*with* Schubert, Christoph) Terminal coalgebras and tree-structures. (English summary) (*see* **2004k:08001**)
Futatsugi, Kokichi *see* **Diaconescu, Răzvan et al.**
Ghani, Neil *see* **Abbott, Michael et al.**, (**2004j:68021**)
Gibbons, Jeremy Calculating functional programs. (English summary) (*see* **2004d:68001**)
— *see also* **Bird, Richard S. et al.**, (**2004d:68001**)
Haxthausen, Anne E. *see* **Mossakowski, Till et al.**
Hennicker, Rolf *see* **Bidoit, Michel et al.**, **2004d:68090**
Jacobs, Bart Exercises in coalgebraic specification. (English summary) (*see* **2004d:68001**)
Khoussainov, Bakhadyr On algebraic specifications of abstract data types. (English summary) **2004m:68171**
Kurz, Alexander *see* **Bidoit, Michel et al.**, **2004d:68090**

Lambán Pardo, Laureano A. (*with* Pascual, Vico; Rubio García, Julio Jesús) An object-oriented interpretation of the EAT system. (English summary) **2004i:68143**
Lucanu, Dorel Initial logic and induction in algebraic specification. (English summary) **2004g:68115**
Machado, Patricia D. L. (*with* Sannella, Donald) Unit testing for CASL architectural specifications. (English summary)
Matthes, Ralph *see* **Abel, Andreas**
McBride, Conor *see* **Abbott, Michael et al.**, (**2004j:68021**)
Meseguer, José (*with* Roşu, Grigore) A total approach to partial algebraic specification. (English summary)
Mossakowski, Till (*with* Haxthausen, Anne E.; Sannella, Donald; Tarlecki, Andrzej) CASL—the common algebraic specification language: semantics and proof theory. (English summary)
— *see also* **Schröder, Lutz et al.**
Mu, Shin-Cheng *see* **Bird, Richard S. et al.**, (**2004d:68001**)
Ogata, Kazuhiro *see* **Diaconescu, Răzvan et al.**
Pascual, Vico *see* **Lambán Pardo, Laureano A. et al.**, **2004i:68143**
Porst, Hans-E. *see* **Adámek, Jiří**, **2004j:68118**
Rees, D. Ll. L. (*with* Stephenson, Karen; Tucker, John V.) The algebraic structure of interfaces. (English summary)
Robbana, Riadh *see* **Berregeb, Narjes et al.**, **2004k:68114**
Roşu, Grigore *see* **Meseguer, José**
Royer, Jean-Claude The GAT approach to specifying mixed systems. (English summary)
Rubio García, Julio Jesús *see* **Lambán Pardo, Laureano A. et al.**, **2004i:68143**
Sannella, Donald *see* **Mossakowski, Till et al.** *and* **Machado, Patricia D. L.**
Schröder, Lutz (*with* Mossakowski, Till; Tarlecki, Andrzej) Amalgamation in CASL via enriched signatures. (English summary)
Schubert, Christoph *see* **Dzierzon, Christian**, (**2004k:08001**)
Shu, Zhong Mei *see* **Zhou, Xiao Cong**
Stephenson, Karen *see* **Rees, D. Ll. L. et al.**
Tarlecki, Andrzej *see* **Mossakowski, Till et al.** *and* **Schröder, Lutz et al.**
Tiwari, Ashish *see* **Berregeb, Narjes et al.**, **2004k:68114**
Tucker, John V. (*with* Zucker, J. I.) Infinitary initial algebra specifications for stream algebras. (English summary) **2004j:68119**
— *see also* **Rees, D. Ll. L. et al.**
Vinnik, V. Yu. The concept of equality in the framework of explicative programming (using examples of abstract data types). (Ukrainian. English, Russian and Ukrainian summaries)
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Zhou, Xiao Cong (*with* Shu, Zhong Mei) A survey on the coalgebraic methods in computer science. (Chinese. English and Chinese summaries)
Zucker, J. I. *see* **Tucker, John V.**, **2004j:68119**

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Adámek, Jiří (*with* Porst, Hans-E.) On varieties and covarieties in a category. (English summary) **2004f:18005**
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Andersen, Henrik Reif (*with* Hulgaard, Henrik) Boolean expression diagrams. (English summary) **2004b:68039**
Awodey, Steven (*with* Hughes, Jesse) Modal operators and the formal dual of Birkhoff's completeness theorem. (English summary) **2004e:68061**
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Banerjee, Anindya[2] (*with* Jensen, Thomas P.) Modular control-flow analysis with rank 2 intersection types. (English summary) **2004d:68014**
Bethke, Inge Completion of equational specifications. (English summary) **2004i:68098**
(Crole, Roy L.) *see* **Algebraic and coalgebraic methods in the mathematics of program construction**, **2004d:68001**
D'Agostino, Giovanna (*with* Visser, Albert) Finality regained: a coalgebraic study of Scott-sets and multisets. (English summary) **2004a:03059**
De Marchi, Federico *see* **Ghani, Neil et al.**, **2004f:18008**
Ebrahimi, M. Mehdi (*with* Mahmoudi, Mojgan) Flat and weakly flat projection algebras. (English summary) **2004b:18007**
Fox, A. J. C. (*with* Harman, N. A.) Algebraic models of correctness for abstract pipelines. (English summary) **2004g:68107**
Ghani, Neil (*with* Lüth, Christoph; De Marchi, Federico; Power, John) Dualising initial algebras. (English summary) **2004f:18008**
(Gibbons, Jeremy) *see* **Algebraic and coalgebraic methods in the mathematics of program construction**, **2004d:68001**
(Gumm, H. Peter) *see* **Ihringer, Thomas**, **2004h:08001**
Harman, N. A. *see* **Fox, A. J. C.**, **2004g:68107**
Hofmann, Martin Linear types and non-size-increasing polynomial time computation. (English summary) **2004d:68047**
Hughes, Jesse *see* **Awodey, Steven**, **2004e:68061**
Hulgaard, Henrik *see* **Andersen, Henrik Reif**, **2004b:68039**
Ihringer, Thomas ★ Allgemeine Algebra. (German) [General algebra] **2004h:08001**
Jensen, Thomas P. *see* **Banerjee, Anindya[2]**, **2004d:68014**
Kamareddine, Fairouz (*with* Laan, Twan; Nederpelt, Rob) Revisiting the notion of function. (English summary) **2004f:03009**
Klop, Jan Willem (*with* de Vrijer, Roel) Properties of rewriting: decidability and modularity. (English summary) **2004i:68101**
Kurz, Alexander Logics admitting final semantics. (English summary) **2004a:03034**
Laan, Twan *see* **Kamareddine, Fairouz et al.**, **2004f:03009**
Lucanu, Dorel On bisimulation in hiddenCCS. (English summary)
Lüth, Christoph *see* **Ghani, Neil et al.**, **2004f:18008**
Mahmoudi, Mojgan *see* **Ebrahimi, M. Mehdi**, **2004b:18007**
Milius, Stefan *see* **Aczel, Peter et al.**, **2004b:18011** *and* **Adámek, Jiřiet al.**, **2004f:18006**
Moss, Lawrence S. Recursion and corecursion have the same equational logic. (English summary) **2004m:03127**
Nederpelt, Rob *see* **Kamareddine, Fairouz et al.**, **2004f:03009**
Porst, Hans-E. *see* **Adámek, Jiří**, **2004f:18005**
Power, John *see* **Ghani, Neil et al.**, **2004f:18008**
Tchier, F. Demonic semantics: using monotypes and residuals. (English summary) **2004m:68148**
Van Wyk, Eric Specification languages in algebraic compilers. (English summary) **2004d:68016**
Velebil, Jiří *see* **Aczel, Peter et al.**, **2004b:18011** *and* **Adámek, Jiřiet al.**, **2004f:18006**
Visser, Albert *see* **D'Agostino, Giovanna**, **2004a:03059**
de Vrijer, Roel *see* **Klop, Jan Willem**, **2004i:68101**

Items listed otherwise than by author

Algebraic and coalgebraic methods in the mathematics of program construction ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
Coalgebraic methods in computer science ★ Coalgebraic methods in computer science.
Genova ★ Coalgebraic methods in computer science.
Lecture Notes in Computer Science ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
Oxford ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**

68Q70 Algebraic theory of languages and automata [see also 18B20, 20M35]

Allouche, Jean-Paul (*with* Shallit, Jeffrey) The ring of k-regular sequences. II. (English summary) **2004m:68172**
Atanasiu, Adrian (*with* Martín-Vide, Carlos; Mitrana, Victor) On the sentence valuations in a semiring. (English summary) **2004j:68120**
Babin, D. N. Efficient recognition of the completeness of a system of automaton functions with a complete Boolean part. (Russian. Russian summary) **2004f:68103**
Bergeron, Anne (*with* Hamel, Sylvie) Cascade decompositions are bit-vector algorithms. (English summary) (*see* **2004j:68012**)
Bogdanović, Stojan *see* **Popović, Žarko et al.**, **2004j:68125**
Bouyer, Patricia (*with* Petit, Antoine; Thérien, Denis) An algebraic approach to data languages and timed languages. (English summary) **2004h:68087**
Branco, Mário J. J. Varieties of languages. (English summary) **2004j:68121**
Buls, Jānis (*with* Buža, Vaira; Glaudiņš, Roberts) Successful representation of autonomous automata. (English and Latvian summaries) **2004i:68144**
Buža, Vaira *see* **Buls, Jānis et al.**, **2004i:68144**
Carton, Olivier $\mathscr{R}$-trivial languages of words on countable ordinals. (English summary) **2004j:68122**
Căzănescu, Virgil E. (*with* Kudlek, Manfred) Homomorphic characterizations of linear and algebraic languages. (English summary) (*see* **2004i:00018**)
Champarnaud, Jean-Marc (*with* Coulon, Fabien) Theoretical study and implementation of the canonical automaton. (English summary) **2004f:68104**
Choffrut, Christian Minimizing subsequential transducers: a survey. **2004e:68069**
Chuan, Wai-Fong Moments of conjugacy classes of binary words. (English summary) **2004i:68145**
Ćirić, Miroslav *see* **Popović, Žarko et al.**, **2004j:68125**
Coulon, Fabien *see* **Champarnaud, Jean-Marc**, **2004f:68104**
Dömösi, Pál (*with* Nehaniv, Chrystopher L.; Rhodes, John L.) Finite semigroups, feedback, and the Letichevsky criteria on non-empty words in finite automata. (English summary) **2004b:68108**
Ésik, Zoltán (*with* Németh, Zoltán László) Automata on series-parallel biposets. (English summary) **2004a:68100**
Fraczak, Wojciech (*with* Podolak, Anna) A characterization of s-languages. (English summary) **2004j:68123**
Fülöp, Zoltán (*with* Vogler, Heiko) Tree series transformations that respect copying. (English summary) **2004c:68087**
Glaudiņš, Roberts *see* **Buls, Jānis et al.**, **2004i:68144**
Hamel, Sylvie *see* **Bergeron, Anne**, (**2004j:68012**)
Hermida, Claudio (*with* Mateus, Paulo) Paracategories. II. Adjunctions, fibrations and examples from probabilistic automata theory. (English summary) **2004m:68173**
Holzer, Markus (*with* König, Barbara) On deterministic finite automata and syntactic monoid size, continued. (English summary) (*see* **2004j:68010**)
Imreh, Balázs (*with* Imreh, Csanád; Ito, Masami[1]) On monotonic directable nondeterministic automata. (English summary) **2004j:68124**
Imreh, Csanád *see* **Imreh, Balázs et al.**, **2004j:68124**
Ito, Masami[1] *see* **Imreh, Balázs et al.**, **2004j:68124**
Kelarev, Andrei (*with* Sokratova, O. V.) On congruences of automata defined by directed graphs. (English summary) **2004c:68088**
— On group automata over finite fields. (English summary) **2004i:68146**
König, Barbara *see* **Holzer, Markus**, (**2004j:68010**)
Kudlek, Manfred *see* **Căzănescu, Virgil E.**, (**2004i:00018**)
Luo, Zhu Kai *see* **Zhu, Yun Fei**
Martín-Vide, Carlos *see* **Atanasiu, Adrian et al.**, **2004j:68120**
Mateus, Paulo *see* **Hermida, Claudio**, **2004m:68173**
Mitrana, Victor *see* **Atanasiu, Adrian et al.**, **2004j:68120**
Nehaniv, Chrystopher L. *see* **Dömösi, Pál et al.**, **2004b:68108**
Németh, Zoltán László *see* **Ésik, Zoltán**, **2004a:68100**
Osravský, Jan Prelanguages versus submonoids. (English summary) **2004g:68116**
Petit, Antoine *see* **Bouyer, Patricia et al.**, **2004h:68087**
Petković, Tatjana *see* **Popović, Žarko et al.**, **2004j:68125**

Phan Trung Huy Types of varieties of recognizable ω-languages and Eilenberg correspondences. (English summary) **2004k:68115**
Pin, Jean-Éric Algebraic tools for the concatenation product. (English summary) **2004e:68070**
Podolak, Anna *see* **Fraczak, Wojciech**, **2004j:68123**
Popović, Žarko (*with* Bogdanović, Stojan; Petković, Tatjana; Ćirić, Miroslav) Generalized directable automata. (English summary) **2004j:68125**
Rhodes, John L. *see* **Dömösi, Pál et al.**, **2004b:68108**
Shallit, Jeffrey *see* **Allouche, Jean-Paul**, **2004m:68172**
Sokratova, O. V. *see* **Kelarev, Andrei**, **2004c:68088**
Srivastava, Arun Kumar[2] (*with* Tiwari, S. P.) On relationships among fuzzy approximation operators, fuzzy topology, and fuzzy automata. (English summary) **2004h:68088**
Straubing, Howard (*with* Thérien, Denis) Weakly iterated block products of finite monoids. (English summary) **2004b:68109**
Tesson, Pascal (*with* Thérien, Denis) The computing power of programs over finite monoids. (English summary) **2004j:68126**
Thérien, Denis *see* **Straubing, Howard**, **2004b:68109**; **Bouyer, Patricia et al.**, **2004h:68087** *and* **Tesson, Pascal**, **2004j:68126**
Tiwari, S. P. *see* **Srivastava, Arun Kumar[2]**, **2004h:68088**
Vágvölgyi, Sándor Intersection of finitely generated congruences over term algebra. (English summary) **2004h:68089**
Vogler, Heiko *see* **Fülöp, Zoltán**, **2004c:68087**
Yao, Jia-Yan Some properties of Ising automata. (English summary) **2004k:68116**
Zhu, Yun Fei (*with* Luo, Zhu Kai) Some results on the equivalence class of autonomous affine automata. (Chinese. English and Chinese summaries)

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d'Alessandro, Flavio On the complexity of Simon automata over the Dyck language. (English summary) **2004i:68111**
Allauzen, Cyril (*with* Mohri, Mehryar) Efficient algorithms for testing the twins property. (English summary) **2004f:68071**
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Bogdanović, Stojan (*with* Ćirić, Miroslav; Imreh, Balázs; Petković, Tatjana; Steinby, Magnus) On local properties of unary algebras. (English summary) **2004h:08006**
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Brockett, Roger W. *see* **Egerstedt, Magnus B.**, **2004h:93130**
Brodsky, Alex (*with* Pippenger, Nicholas) Characterizations of 1-way quantum finite automata. (English summary) **2004h:68037**
Brüggemann-Klein, Anne (*with* Wood, Derick) The regularity of two-way nondeterministic tree automata languages. (English summary) **2004b:68084**
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Buls, Jānis (*with* Zandere, Ieva) Injective morphisms of the machine semigroups. (English summary) (*see* **2004k:08001**)
Cai, Yanying *see* **Zhang, Rong Hua**, **2004k:68099**
Champarnaud, Jean-Marc (*with* Duchamp, Gérard) Brzozowski's derivatives extended to multiplicities. (English summary) (*see* **2004j:68012**)
Cherubini, Alessandra *see* **Ananichev, D. S. et al.**, **2004j:68094**
Chirkov, M. K. *see* **Ponomareva, A. Yu.**, **2004b:93024**
Ćirić, Miroslav *see* **Bogdanović, Stojan et al.**, **2004h:08006**
Corsini, Piergiulio (*with* Leoreanu, Violeta) ★ Applications of hyperstructure theory. **2004e:08001**
Culik, Karel, II (*with* Karhumäki, Juhani; Kari, Jarkko) A note on synchronized automata and road coloring problem. (English summary) **2004b:68086**
Delgado, Manuel (*with* Héam, Pierre-Cyrille) A polynomial time algorithm to compute the abelian kernel of a finite monoid. (English summary) **2004a:20069**
Desai, M. P. (*with* Narayanan, Harihar; Patkar, Sachin B.) The realization of finite state machines by decomposition and the principal lattice of partitions of a submodular function. (English summary) **2004i:68112**
Dimovski, Dončo (*with* Manevska, Violeta) Vector valued semigroup automata. (English summary) (*see* **2004b:00012**)
Duchamp, Gérard *see* **Champarnaud, Jean-Marc**, (**2004j:68012**)
Egerstedt, Magnus B. (*with* Brockett, Roger W.) Feedback can reduce the specification complexity of motor programs. (English summary) **2004h:93130**
Ésik, Zoltán The equational theory of fixed points with applications to generalized language theory. (English summary) **2004a:68067**
— (*with* Kuich, Werner) Formal tree series. (English summary) **2004g:68088**
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Francez, Nissim (*with* Kaminski, Michael) An algebraic characterization of deterministic regular languages over infinite alphabets. (English summary) **2004k:68088**
Fülöp, Zoltán (*with* Kühnemann, Armin; Vogler, Heiko) A bottom-up characterization of deterministic top-down tree transducers with regular look-ahead.
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Griffing, Gary Composition-representative subsets. (English summary) **2004k:18002**
Gutiérrez, Claudio Equations in free semigroups with involution and their relation to equations in free groups. (English summary) **2004d:68056**
von Haeseler, Fritz ★ Automatic sequences. **2004b:11027**
Hashiguchi, Kosaburo (*with* Kunai, Takahiro; Jimbo, Shuji) Finite codes over free binoids. (English summary) **2004f:68077**
Héam, Pierre-Cyrille *see* **Delgado, Manuel**, **2004a:20069**
Hines, P. M. A categorical framework for finite state machines. (English summary) **2004c:68074**
Honkala, Juha On D0L power series over various semirings. (English summary) **2004k:68078**
— (*with* Ruohonen, Keijo) On the images of $\mathbb{N}$-rational sequences counting multiplicities. (English summary) **2004f:68080**
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— *see also* **Bogdanović, Stojan et al.**, **2004h:08006**
Ingólfsdóttir, Anna *see* **Aceto, Luca et al.**, **2004e:03060**
Ito, Masami[1] *see* **Imreh, Balázs et al.**, (**2004i:00018**)
Jimbo, Shuji *see* **Hashiguchi, Kosaburo et al.**, **2004f:68077**
Kaminski, Michael *see* **Francez, Nissim**, **2004k:68088**
Karhumäki, Juhani *see* **Culik, Karel, II et al.**, **2004b:68086**
Kari, Jarkko *see* **Culik, Karel, II et al.**, **2004b:68086**
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— On incidence rings of group automata. (English summary) **2004d:16048**
Kemper, Peter *see* **Buchholz, Peter**, **2004g:68085**
Khoussainov, Bakhadyr On algebraic and logical specifications of classes of regular languages. (English summary) **2004d:68075**
Kirsten, Daniel The star problem in trace monoids: reductions beyond C4 (extended abstract). (English summary)
Kühnemann, Armin *see* **Fülöp, Zoltán et al.**
Kuich, Werner *see* **Ésik, Zoltán**, **2004g:68088**
Kunai, Takahiro *see* **Hashiguchi, Kosaburo et al.**, **2004f:68077**
Kunc, Michal The trace coding problem is undecidable (extended abstract). (English summary)
Lawson, Mark V. ★ Finite automata. **2004g:68001**
Leoreanu, Violeta *see* **Corsini, Piergiulio**, **2004e:08001**
Lischke, Gerhard The root of a language and its complexity. (English summary) **2004a:68075**
Liu, Yao Jun (*with* Xu, Z. B.) Monoid algorithms and semigroup properties related to dense regular languages. (English summary) **2004g:20088**
Malik, Davender S. *see* **Mordeson, John N.**, **2004a:68001**
Manevska, Violeta *see* **Dimovski, Dončo**, (**2004b:00012**)
Martín-Vide, Carlos *see* **Atanasiu, Adrian et al.**, **2004g:68084**
Massouros, Ch. G. *see* **Massouros, Gerasimos G. et al.**, (**2004g:20001**)
Massouros, Gerasimos G. (*with* Zafiropoulos, F. A.; Massouros, Ch. G.) Transposition polysymmetrical hypergroups. (English summary) (*see* **2004g:20001**)
— On the attached hypergroups of the order of an automation. (English summary)
Mitrana, Victor *see* **Atanasiu, Adrian et al.**, **2004g:68084**
Mohri, Mehryar *see* **Allauzen, Cyril**, **2004f:68071**
Moon, Eunho L. Completely right projective semigroups. (English summary) **2004e:20112**
Mordeson, John N. (*with* Malik, Davender S.) ★ Fuzzy automata and languages. (English summary) **2004a:68001**
Narayanan, Harihar *see* **Desai, M. P. et al.**, **2004i:68112**
Ohsaki, Hitoshi (*with* Seki, Hiroyuki; Takai, Toshinori) Recognizing Boolean closed A-tree languages with membership conditional rewriting mechanism. (English summary)
Panteleev, P. A. On the distinguishability of states of automata. (Russian. Russian summary) **2004h:68072**
Patkar, Sachin B. *see* **Desai, M. P. et al.**, **2004i:68112**
Petković, Tatjana *see* **Bogdanović, Stojan et al.**, **2004h:08006**
Pippenger, Nicholas *see* **Brodsky, Alex**, **2004h:68037**
Polák, Libor Operators on classes of regular languages. (English summary) **2004j:68105**
— Syntactic semiring and language equations. (English summary) (*see* **2004j:68013**)
Ponomareva, A. Yu. (*with* Chirkov, M. K.) A method of constructing a system of reduced forms for a periodically nonstationary stochastic automaton. (English summary) **2004b:93024**
Rahonis, George Alphabetic pushdown tree transducers. (English summary) (*see* **2004j:68010**)
Ruiz Ochando, José *see* **García Pérez, Pedro Luis et al.**, **2004c:68073**
Ruohonen, Keijo *see* **Honkala, Juha**, **2004f:68080**
Salomaa, Arto Composition sequences for functions over a finite domain. (English summary) **2004c:68079**
Schott, René (*with* Spehner, Jean-Claude) Two optimal parallel algorithms on the commutation class of a word (extended abstract). (English summary) (*see* **2004h:68006**)
Schwentick, Thomas (*with* Thérien, Denis; Vollmer, Heribert) Partially-ordered two-way automata: a new characterization of DA. (English summary) **2004a:68082**
Seki, Hiroyuki *see* **Ohsaki, Hitoshi et al.**
Sénizergues, Géraud $L(A) = L(B)$? Decidability results from complete formal systems. (English summary) **2004d:68079a**
— $L(A) = L(B)$? A simplified decidability proof. (English summary) **2004d:68079b**
Silva, Pedro V. A note on pure and p-pure languages. (English summary) **2004m:68142**
Spehner, Jean-Claude *see* **Schott, René**, (**2004h:68006**)
Steinby, Magnus *see* **Bogdanović, Stojan et al.**, **2004h:08006** *and* **Imreh, Balázs et al.**, (**2004i:00018**)
Straubing, Howard On logical descriptions of regular languages. (English summary) **2004b:03051**
Sutner, Klaus Reduced power automata. (English summary) (*see* **2004j:68013**)
Takai, Toshinori *see* **Ohsaki, Hitoshi et al.**
Thérien, Denis *see* **Schwentick, Thomas et al.**, **2004a:68082**
Thomas, Wolfgang Uniform and nonuniform recognizability. (English summary) **2004b:03052**
Trotter, Peter G. *see* **Kelarev, Andrei**, **2004k:20139**
Vazquez de Parga, Manuel *see* **García Pérez, Pedro Luis et al.**, **2004c:68073**
Verma, Kumar Neeraj Two-way equational tree automata for AC-like theories: decidability and closure properties. (English summary)
Vogler, Heiko *see* **Fülöp, Zoltán et al.**
Volkov, Mikhail V. *see* **Ananichev, D. S. et al.**, **2004j:68094**

Vollmer, Heribert *see* **Schwentick, Thomas et al., 2004a:68082**
Wood, Derick *see* **Brüggemann-Klein, Anne, 2004b:68084**
Xu, Z. B. *see* **Liu, Yao Jun, 2004g:20088**
Yeh, Yow-Tzong (*with* Yu, Shyr-Shen) The disjunctivities of ω-languages. (English summary) **2004g:68101**
Yu, Shyr-Shen *see* **Yeh, Yow-Tzong, 2004g:68101**
Zafiropoulos, F. A. *see* **Massouros, Gerasimos G. et al., (2004g:20001)**
Zandere, Ieva *see* **Buls, Jānis, (2004k:08001)**
Zhang, Rong Hua (*with* Cai, Yanying) Two classes of languages related to the prefix codes. (English summary) **2004k:68099**

68Q80 Cellular automata [see also 37B15]

Adachi, Susumu *see* **Lee, Jia et al., (2004j:68023)**
Alfonseca, Manuel (*with* Ortega, Alfonso; Suárez, Alberto) Cellular automata and probabilistic L systems: an example in ecology. (English summary) (*see* **2004i:00018**)
Allouche, Jean-Paul (*with* Courbage, Maurice; Skordev, Gencho) Notes on cellular automata. **2004a:68101**
Alonso-Sanz, Ramón (*with* Martín, Margarita) Elementary cellular automata with memory. (English summary) **2004d:68093**
— Reversible cellular automata with memory: two-dimensional patterns from a single site seed. (English summary) **2004a:68102**
Aono, Masashi (*with* Gunji, Yukio-Pegio) Local semantics for the part-whole problem: an alternative CA model based on unserializable parallel processing. (English summary) (*see* **2004d:00014**)
Boccara, Nino (*with* Fukś, Henryk) Number-conserving cellular automaton rules. (English summary) **2004i:68147**
Buchholz, Thomas (*with* Klein, Andreas[1]; Kutrib, Martin) On interacting automata with limited nondeterminism. (English summary) **2004k:68117**
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Cattaneo, Gianpiero (*with* Dennunzio, Alberto; Margara, Luciano) Chaotic subshifts and related languages—applications to one-dimensional cellular automata. (English summary) **2004h:68090**
Chau, Hoi Fung *see* **Xu, Hao et al., 2004d:68095**
Cho, Sung-Jin (*with* Choi, Un-Sook; Kim, Han-Doo) Analysis of complemented CA derived from a linear TPMACA. (English summary) **2004c:68089**
Choi, Un-Sook *see* **Cho, Sung-Jin et al., 2004c:68089**
Courbage, Maurice *see* **Allouche, Jean-Paul et al., 2004a:68101**
Delorme, Marianne (*with* Mazoyer, Jacques) Pebble automata. Figures families recognition and universality. (English summary) **2004h:68091**
Demény, Mária (*with* Horváth, Géza; Nagylaki, Csaba; Nagylaki, Zoltán) Visualization of cellular automata. (English summary) (*see* **2004h:68006**)
Dennunzio, Alberto *see* **Cattaneo, Gianpiero et al., 2004h:68090**
Durand, Bruno (*with* Formenti, Enrico; Varouchas, Georges) On undecidability of equicontinuity classification for cellular automata. (English summary) **2004k:68118**
— (*with* Formenti, Enrico; Grange, Aristide; Róka, Zsuzsanna) Number conserving cellular automata: new results on decidability and dynamics. (English summary) **2004i:68149**
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Evans, Kellie Michele Larger than Life: threshold-range scaling of Life's coherent structures. (English summary) **2004h:68092**
Formenti, Enrico (*with* Grange, Aristide) Number conserving cellular automata. II. Dynamics. (English summary) **2004f:68105**
— *see also* **Durand, Bruno et al., 2004b:68110**; **2004i:68149** *and* **2004k:68118**
Fukś, Henryk Sequences of preimages in elementary cellular automata. (English summary) **2004a:68103**
— *see also* **Boccara, Nino, 2004i:68147**
Goldberg, Robert R. *see* **Hammerman, Natalie, 2004h:68093**
Grange, Aristide *see* **Formenti, Enrico, 2004f:68105** *and* **Durand, Bruno et al., 2004i:68149**
Gunji, Yukio-Pegio *see* **Aono, Masashi, (2004d:00014)**
Hammerman, Natalie (*with* Goldberg, Robert R.) On the effectiveness of cellular automata to add real numbers. (English summary) **2004h:68093**
Herrmann, Francine (*with* Margenstern, Maurice) A universal cellular automaton in the hyperbolic plane. (English summary) **2004b:68111**
Hisaoka, Masaya *see* **Umeo, Hiroshi et al., 2004f:68107** *and* **(2004j:68023)**
Horváth, Géza *see* **Demény, Mária et al., (2004h:68006)**
Imai, Katsunobu (*with* Morita, Kenichi; Sako, Kenji) Firing squad synchronization problem in number-conserving cellular automata. (English summary) **2004i:68150**
Kim, Han-Doo *see* **Cho, Sung-Jin et al., 2004c:68089**
Klein, Andreas[1] *see* **Buchholz, Thomas et al., 2004i:68148** *and* **2004k:68117**
Kutrib, Martin *see* **Buchholz, Thomas et al., 2004i:68148** *and* **2004k:68117**
Lee, Jia (*with* Peper, Ferdinand; Adachi, Susumu; Morita, Kenichi; Mashiko, Shinro) Reversible computation in asynchronous cellular automata. (English summary) (*see* **2004j:68023**)
Lee, K. M. *see* **Xu, Hao et al., 2004d:68095**
Maeda, Masashi *see* **Umeo, Hiroshi et al., (2004j:68023)**
Malcher, Andreas Descriptional complexity of cellular automata and decidability questions. (English summary) **2004f:68106**
Margara, Luciano *see* **Cattaneo, Gianpiero et al., 2004h:68090**
Margenstern, Maurice A package of algorithms to devise cellular automata in the hyperbolic plane and related questions. (English summary)
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— The splitting method and Poincaré theorem. II. Matrix, polynomial and language. (English summary) **2004g:68117**
— *see also* **Herrmann, Francine, 2004b:68111**
Martin, Bruno A geometrical hierarchy on graphs via cellular automata. (English summary) **2004k:68119**
Martín, Margarita *see* **Alonso-Sanz, Ramón, 2004d:68093**
Mashiko, Shinro *see* **Lee, Jia et al., (2004j:68023)**
Mazoyer, Jacques *see* **Delorme, Marianne, 2004h:68091**
Michisaka, Koshi *see* **Umeo, Hiroshi et al., (2004j:68023)**
Moreira, Andrés Universality and decidability of number-conserving cellular automata. (English summary) **2004b:68112**
Morita, Kenichi *see* **Imai, Katsunobu et al., 2004i:68150** *and* **Lee, Jia et al., (2004j:68023)**
Nagylaki, Csaba *see* **Demény, Mária et al., (2004h:68006)**
Nagylaki, Zoltán *see* **Demény, Mária et al., (2004h:68006)**
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Nishioka, Koji *see* **Umeo, Hiroshi et al., (2004j:68023)**
Ollinger, Nicolas The quest for small universal cellular automata. (English summary)
Ortega, Alfonso *see* **Alfonseca, Manuel et al., (2004i:00018)**
Peper, Ferdinand *see* **Lee, Jia et al., (2004j:68023)**
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Skordev, Gencho *see* **Allouche, Jean-Paul et al., 2004a:68101**
Sogabe, Takashi *see* **Umeo, Hiroshi et al., 2004f:68107**
Stepanenkov, A. M. On the complexity of testing for the primality of a number by homogeneous structures. (Russian. Russian summary) **2004h:68094**
Suárez, Alberto *see* **Alfonseca, Manuel et al., (2004i:00018)**
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Terrier, Véronique Two-dimensional cellular automata and deterministic on-line tessalation automata. (English summary) [Two-dimensional cellular automata and deterministic on line tessellation automata] **2004g:68118**
Toom, André ★ Contornos, conjuntos convexos e autômatos celulares. (Portuguese) [Contours, convex sets and cellular automata] **2004d:68094**
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Vollmar, Roland *see* **Sanders, Peter et al., 2004k:68120**
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Encinas, A. Hernández *see* **Len, R. Díaz et al., 2004b:94065**

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Fiorenzi, Francesca Cellular automata and strongly irreducible shifts of finite type. (English summary) **2004g:37017**
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Fraenkel, Aviezri S. Two-player games on cellular automata. (English summary) **2004b:91004**
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Gravier, Sylvain (*with* Mhalla, Mehdi; Tannier, Eric) On a modular domination game. (English summary) **2004i:91041**
Griffin, Christopher *see* **Brooks, Richard R. et al.**
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Hernández Encinas, Luis *see* **Len, R. Díaz et al., 2004b:94065**
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Huang, Xia (*with* Cao, Jin De) Almost periodic solution of shunting inhibitory cellular neural networks with time-varying delay. (English summary) **2004h:82086**
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— *see also* **Wang, Yi[4], 2004i:37025**
Johnson, Simon *see* **Friedman, Eric J. et al.**
Kamikawa, Naoki *see* **Umeo, Hiroshi, 2004i:68176**
Kamiński, Brunon *see* **Courbage, Maurice, 2004a:37016**
Kifer, Yuri *see* **Eizenberg, A., 2004a:60063**
Kurokawa, Haruhisa *see* **Tomita, Kohji et al., 2004g:68099**
Landsberg, A. S. *see* **Friedman, Eric J. et al.**
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Lee, K. M. *see* **Chau, Hoi Fung et al., 2004j:37020**
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Levine, Herbert *see* **Strain, M. C. et al., 2004i:92041**
Liu, Yan *see* **Shuai, Dian Xun**
Maass, Alejandro *see* **Boyle, Mike, 2004i:37019**
Margenstern, Maurice The splitting method and Poincaré's theorem. I. The geometric part. (English summary) **2004b:05060**
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— (*with* Skordev, Gencho) Fibonacci type coding for the regular rectangular tilings of the hyperbolic plane. (English summary) **2004i:37023**
Martín, Margarita *see* **Alonso-Sanz, Ramón**
Martins, M. L. *see* **Silva, H. S., 2004d:92002**
Mhalla, Mehdi *see* **Gravier, Sylvain et al., 2004i:91041**
Michel, Olivier *see* **Giavitto, Jean-Louis, 2004i:68053**
Mogie, Michael *see* **Carrillo, Claudia et al., 2004j:92064**
Morita, Kenichi *see* **Lee, Jia et al., 2004e:68049**
Murata, Satoshi *see* **Tomita, Kohji et al., 2004g:68099**
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Papazian, Christophe (*with* Rémila, Éric) Hyperbolic recognition by graph automata.
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Peng, Qi Cong *see* **Zhang, Chuan Wu et al.**
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Rémila, Éric *see* **Papazian, Christophe**
del Rey, A. Martín *see* **Len, R. Díaz et al., 2004b:94065**
Richman, D. D. *see* **Strain, M. C. et al., 2004i:92041**
Rodríguez Sánchez, Gerardo *see* **Len, R. Díaz et al., 2004b:94065**
Romero, Neptalí Comments on the definition of cellular automaton. (Spanish. Spanish summary) **2004f:37014**
Ruan, Hongbo *see* **He, Mingfeng et al.**
Ruíz, I. Visus *see* **Len, R. Díaz et al., 2004b:94065**
Santha, Miklos *see* **Dürr, Christoph, 2004f:81052**
Sbitnev, V. I. *see* **Chua, Leon O. et al., 2004i:37020**
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Shen, Ye Qiao *see* **Zhang, Chuan Wu et al.**
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Siu, L. W. *see* **Chau, Hoi Fung et al., 2004j:37020**
Siwak, Paweł Filtrons of automata. (English summary) **2004m:37023**
Skordev, Gencho *see* **Margenstern, Maurice, 2004i:37023**
Stauffer, Dietrich *see* **Weisbuch, Gérard, 2004e:91104**
Strain, M. C. (*with* Richman, D. D.; Wong, Joseph K.; Levine, Herbert) Spatiotemporal dynamics of HIV propagation. (English summary) **2004i:92041**
Sutner, Klaus The size of power automata. (English summary) **2004e:68060**
Tannier, Eric *see* **Gravier, Sylvain et al., 2004i:91041**
Tokihiro, Tetsuji *see* **Yoshihara, Daisuke et al., 2004a:82070**
Tomita, Kohji (*with* Kurokawa, Haruhisa; Murata, Satoshi) Graph automata: natural expression of self-reproduction. (English summary) **2004g:68099**
Umeo, Hiroshi (*with* Kamikawa, Naoki) A design of real-time non-regular sequence generation algorithms and their implementations on cellular automata with 1-bit inter-cell communications. (English summary) **2004i:68176**
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Wei, Yi-ming (*with* Ying, Shang-jun; Fan, Ying[4]; Wang, Bing Hong[1]) The cellular automaton model of investment behavior in the stock market. (English summary) **2004f:91089**
Weimar, Jörg R. Three-dimensional cellular automata for reaction-diffusion systems. (English summary)
Weisbuch, Gérard (*with* Stauffer, Dietrich) Adjustment and social choice. (English summary) **2004e:91104**
White, S. Hoya *see* **Len, R. Díaz et al., 2004b:94065**
Wong, Joseph K. *see* **Strain, M. C. et al., 2004i:92041**
Xie, Hui-Min *see* **Jiang, Zhi-Song, 2004b:37016**
Xu, Hao *see* **Chau, Hoi Fung et al., 2004j:37020**
Yan, Koon Kiu *see* **Chau, Hoi Fung et al., 2004j:37020**
Ying, Shang-jun *see* **Wei, Yi-ming et al., 2004f:91089**
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Yoshihara, Daisuke (*with* Yura, Fumitaka; Tokihiro, Tetsuji) Fundamental cycle of a periodic box-ball system. (English summary) **2004a:82070**
Yu, Changliang *see* **He, Mingfeng et al.**
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Zhang, Chuan Wu (*with* Shen, Ye Qiao; Peng, Qi Cong) Encryption based on cellular automata inverse iteration. (Chinese. English and Chinese summaries)

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Cellular automata ★ Special issue on cellular automata.

68Q85 Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)

Abadi, Martín (*with* Blanchet, Bruno) Secrecy types for asymmetric communication. (English summary) **2004d:68096**
Aceto, Luca (*with* Fokkink, Willem Jan; Ingólfsdóttir, Anna) A note on an expressiveness hierarchy for multi-exit iteration. (English summary) **2004c:68090**
Alla, Hassane *see* **David, René Marcel, (2004g:00018)**
Amadio, Roberto M. (*with* Boudol, Gérard; Lhoussaine, Cédric) On message deliverability and non-uniform receptivity. (English summary) **2004f:68108**
Andreoli, Jean-Marc (*with* Mazaré, Laurent) Concurrent construction of proof-nets. (English summary) **2004k:68122**
Atanassov, Krassimir T. (*with* Gluhchev, G. Y.; Hadjitodorov, S. T.; Shannon, A. G.; Vasil'ev, Vasil S.) ★ Generalized nets and pattern recognition. **2004i:68151**
— *see also* **Gochev, Valeri** *and* **Nikolova, Mariana P. et al.**
Baeten, J. C. M. (*with* de Vink, E. P.) Axiomatizing GSOS with termination. (English summary) **2004m:68174**
— Embedding untimed into timed process algebra: the case for explicit termination. (English summary) **2004i:68152**
Baier, Christel (*with* Kwiatkowska, Marta) Domain equations for probabilistic processes. (English summary) **2004d:68097**
Baldan, Paolo *see* **Ehrig, Hartmut et al., (2004j:00032)**
Bandini, Emanuele (*with* Segala, Roberto) Axiomatizations for probabilistic bisimulation. (English summary)
Barad, Miryam An introduction to Petri nets. (English summary) **2004j:68127**
Barbuti, Roberto (*with* De Francesco, Nicoletta; Santone, Antonella; Tesei, Luca) A notion of non-interference for timed automata. (English summary)
Bashkin, Vladimir A. (*with* Lomazova, Irina A.) Petri nets and resource bisimulation. (English summary) **2004i:68153**
Berger, Martin Friedrich *see* **Yoshida, Nobuko et al., 2004d:68105**
Bernardinello, Luca (*with* Ferigato, Carlo; Pomello, Lucia) An algebraic model of observable properties in distributed systems. (English summary) **2004c:68091**
Best, Eike (*with* Devillers, Raymond; Koutny, Maciej) The box algebra = Petri nets + process expressions. (English summary) **2004c:68092**
Bieganowski, Jacek *see* **Węgrzyn, Agnieszka et al.**
Blanchet, Bruno *see* **Abadi, Martín, 2004d:68096**
Blelloch, Guy E. (*with* Cheng, Perry; Gibbons, Phillip B.) Scalable room synchronizations. (English summary) **2004i:68154**
Bonsangue, Marcello M. (*with* Kok, Joost N.; Zavattaro, Gianluigi) Comparing coordination models and architectures using embeddings. (English summary) **2004a:68104**
Borkowski, Maciej *see* **Peters, James F. et al.**
Bouajjani, Ahmed (*with* Esparza, Javier; Touili, Tayssir) A generic approach to the static analysis of concurrent programs with procedures. (English summary) **2004h:68095**
Boudol, Gérard (*with* Castellani, Ilaria) Noninterference for concurrent programs. (English summary)
— *see also* **Amadio, Roberto M. et al., 2004f:68108**
van Breugel, Franck (*with* Shalit, Steven; Worrell, James) Testing labelled Markov processes. (English summary)

Brim, Luboš (*with* Křetínský, Mojmír; Jacquet, Jean-Marie; Gilbert, David Roger) Modelling multi-agent systems as synchronous concurrent constraint processes. (English summary) **2004d:68098**
(Brinksma, Ed) *see* **Hermanns, Holger**, **2004i:68163**
Brogi, Antonio (*with* Jacquet, Jean-Marie) On the expressiveness of coordination via shared dataspaces. (English summary) **2004a:68105**
Brookes, Stephen Traces, pomsets, fairness and full abstraction for communicating processes. (English summary) (*see* **2004j:68004**)
Bruni, Roberto (*with* Montanari, Ugo) Concurrent models for Linda with transactions. (English summary)
Burton, Jonathan (*with* Koutny, Maciej; Pappalardo, Giuseppe) Relating communicating processes with different interfaces. (English summary) **2004m:68175**
Buscemi, Maria Grazia (*with* Montanari, Ugo) A first order coalgebraic model of π-calculus early observational equivalence. (English summary) (*see* **2004j:68004**)
Busi, Nadia (*with* Zavattaro, Gianluigi) Expired data collection in shared dataspaces. (English summary) **2004d:68099**
Caillaud, Benoît *see* **Hélouët, Loïc et al.**, **2004a:68108**
Caires, Luís (*with* Cardelli, Luca) A spatial logic for concurrency. II. (English summary) (*see* **2004j:68004**)
— (*with* Cardelli, Luca) A spatial logic for concurrency. I. (English summary) **2004j:68128**
Camargo, Heloisa *see* **Pedrycz, Witold**, **2004k:68128**
Cao, Mu Liang (*with* Wu, Zhi Ming[1]; Yang, Gen Ke) π-net: a new modular high level Petri net. (Chinese. English and Chinese summaries)
Captarencu, Oana *see* **Jucan, Toader**, **2004g:68122**
Cardelli, Luca (*with* Ghelli, Giorgio; Gordon, Andrew D.) Types for the ambient calculus. (English summary) **2004i:68155**
— *see also* **Gordon, Andrew D.**, **2004d:68100**; **Caires, Luís**, **2004j:68128** *and* (**2004j:68004**)
Carmona, Josep (*with* Cortadella, Jordi; Pastor, Enric) A structural encoding technique for the synthesis of asynchronous circuits. (English summary) **2004h:68096**
Castagna, Giuseppe (*with* Zappa Nardelli, Francesco) The seal calculus revisited: contextual equivalence and bisimilarity. (English summary) (*see* **2004j:68011**)
Castellani, Ilaria *see* **Boudol, Gérard**
Cattani, Gian Luca (*with* Winskel, Glynn) Presheaf models for CCS-like languages. (English summary) **2004g:68119**
Cattani, Stefano (*with* Segala, Roberto) Decision algorithms for probabilistic bisimulation. (English summary) (*see* **2004j:68004**)
Cazorla, Diego (*with* Cuartero, Fernando; Valero Ruiz, Valentín; López Pelayo, Fernando; Pardo, J. José) Algebraic theory of probabilistic and nondeterministic processes. (English summary) **2004c:68093**
Cenciarelli, Pietro Configuration theories. (English summary) **2004m:68176**
Chen, Xin-meng *see* **Peng, Rong et al.**
Cheng, Perry *see* **Blelloch, Guy E. et al.**, **2004i:68154**
Cheung, To-Yat *see* **Jiao, Li**, **2004h:68097**
Chountas, Panagiotis *see* **Kolev, Boyan et al.**
Cicortaş, Alexandru Agent actions modeled by coloured Petri nets. (English summary)
Ciobanu, Gabriel (*with* Rotaru, Mihai) Molecular interaction. (English summary) **2004a:68106**
Clark, Ian *see* **Xia, Fei**, **2004h:68102**
Coja-Oghlan, Amin (*with* Stehr, Mark-Oliver) Revisiting the algebra of Petri net processes under the collective token philosophy. (English summary) **2004m:68177**
Cormack, Gordon V. *see* **Lushman, Brad**, **2004d:68102**
Corradini, Flavio (*with* Vogler, Walter; Jenner, Lars) Comparing the worst-case efficiency of asynchronous systems with PAFAS. (English summary) **2004c:68094**
— (*with* Di Cola, Dino) The expressive power of urgent, lazy and busy-waiting actions in timed processes. (English summary) **2004i:68156**
Cortadella, Jordi *see* **Carmona, Josep et al.**, **2004h:68096**
Cuartero, Fernando *see* **Cazorla, Diego et al.**, **2004c:68093**
Czaja, Ludwik (*with* Kudlek, Manfred) ω-process languages for place/transition nets. (English summary) **2004k:68123**
— Place/transition Petri net evolutions: recording ways, analysis and synthesis. (English summary) **2004i:68157**
— Proving nets correct via cause-effect structures (an experiment). (English summary) **2004i:68158**
D'Argenio, Pedro R. *see* **Lohrey, Markus et al.**
David, René Marcel (*with* Alla, Hassane) Reachability graph for autonomous continuous Petri nets. (English summary) (*see* **2004g:00018**)
De Francesco, Nicoletta *see* **Barbuti, Roberto et al.**
Desharnais, Josée (*with* Edalat, Abbas; Panangaden, Prakash) Bisimulation for labelled Markov processes. (English summary) **2004c:68095**
— (*with* Gupta, Vineet; Jagadeesan, Radha; Panangaden, Prakash) Approximating labelled Markov processes. (English summary) **2004c:68096**
Devillers, Raymond (*with* Klaudel, Hanna; Koutny, Maciej; Pommereau, Franck) Asynchronous box calculus. (English summary) **2004g:68120**
— (*with* Klaudel, Hanna; Riemann, Robert-C.) General parameterised refinement and recursion for the M-net calculus. (English summary) **2004b:68116**
— *see also* **Best, Eike et al.**, **2004c:68092**
Di Cola, Dino *see* **Corradini, Flavio**, **2004i:68156**
Doberkat, Ernst-Erich The demonic product of probabilistic relations. (English summary) **2004a:68107**
— Factoring stochastic relations. (English summary) **2004m:68178**
Dong, Wei[2] (*with* Wang, Ji; Qi, Zhi Chang) Slicing concurrent programs for model checking. (Chinese. English and Chinese summaries)
Dovier, Agostino (*with* Piazza, Carla; Policriti, Alberto) An efficient algorithm for computing bisimulation equivalence. (English summary) **2004k:68124**
Du, Yu Yue (*with* Jiang, Chang Jun) Modeling real-time cooperative systems with workflow nets. (Chinese. English and Chinese summaries)
— (*with* Jiang, Chang Jun) Verifying functions in online stock trading systems. (English summary)
Duan, Hua *see* **Zeng, Qing Tian et al.**
Durchholz, Reiner A generic causal model for place latency. (English summary) **2004c:68097**
Edalat, Abbas *see* **Desharnais, Josée et al.**, **2004c:68095**
Ehrig, Hartmut (*with* Hoffmann, Kathrin; Padberg, Julia; Baldan, Paolo; Heckel, Reiko) High-level net processes. (English summary) (*see* **2004j:00032**)
Eshuis, Rik (*with* Fokkinga, Maarten M.) Comparing refinements for failure and bisimulation semantics. (English summary) **2004g:68121**
Esparza, Javier (*with* Schröter, Claus) Unfolding based algorithms for the reachability problem. (English summary) **2004i:68159**
— *see also* **Bouajjani, Ahmed et al.**, **2004h:68095**
Fan, Hao *see* **Zeng, Qing Tian et al.**
Fan, Zhi Hua *see* **Hu, Juan et al.**
Fanchon, Jean (*with* Morin, Rémi) Regular sets of pomsets with autoconcurrency. (English summary) (*see* **2004j:68004**)
Farwer, Berndt Comparing concepts of object Petri net formalisms. (English summary) **2004i:68160**
— Dynamic modification of object Petri nets. An application to modelling protocols with fork-join structures. (English summary)
— (*with* Misra, Kundan) Modelling with hierarchical object Petri nets. (English summary) **2004i:68161**
Fecher, Harald A completed hierarchy of true concurrent equivalences. **2004k:68125**
Feng, Yuan[2] (*with* Ying, Ming-Sheng) Process algebra approach to reasoning about concurrent actions. (English summary)
Ferigato, Carlo *see* **Bernardinello, Luca et al.**, **2004c:68091**
Fokkinga, Maarten M. *see* **Eshuis, Rik**, **2004g:68121**
Fokkink, Willem Jan *see* **Aceto, Luca et al.**, **2004c:68090**
Fu, Yuxi Bisimulation congruence of χ-calculus. (English summary) **2004j:68129**
Galpin, Vashti A format for semantic equivalence comparison. (English summary) **2004j:68130**
Gastin, Paul (*with* Mislove, Michael) A simple process algebra based on atomic actions with resources. (English summary) **2004k:68126**
Gaujal, Bruno (*with* Haar, Stefan; Mairesse, Jean) Blocking a transition in a free choice net and what it tells about its throughput. (English summary) **2004c:68098**
Ghelli, Giorgio *see* **Cardelli, Luca et al.**, **2004i:68155**
Gibbons, Phillip B. *see* **Blelloch, Guy E. et al.**, **2004i:68154**
Gilbert, David Roger *see* **Brim, Luboš et al.**, **2004d:68098**
van Glabbeek, Rob (*with* Goltz, Ursula) Well-behaved flow event structures for parallel composition and action refinement. (English summary) **2004j:68131**
Gluhchev, G. Y. *see* **Atanassov, Krassimir T. et al.**, **2004i:68151**
Gochev, Valeri (*with* Atanassov, Krassimir T.) Over generalized net representation of one type of fuzzy Petri nets. (English summary)
Godskesen, Jens Chr. (*with* Hildebrandt, Thomas T.; Sassone, Vladimiro) A calculus of mobile resources. (English summary) (*see* **2004j:68004**)
Goltz, Ursula *see* **van Glabbeek, Rob**, **2004j:68131**
Gordon, Andrew D. (*with* Cardelli, Luca) Equational properties of mobile ambients. (English summary) **2004d:68100**
— *see also* **Cardelli, Luca et al.**, **2004i:68155**
Groote, Jan Friso *see* **Reniers, M. A. et al.**, **2004h:68099**
Gruska, Damas P. (*with* Maggiolo-Schettini, Andrea) Process algebras for network communication. (English summary)
Gupta, Vineet *see* **Desharnais, Josée et al.**, **2004c:68096**
Haar, Stefan Clusters, confusion and unfoldings. (English summary) **2004i:68162**
— *see also* **Gaujal, Bruno et al.**, **2004c:68098**
Hadjitodorov, S. T. *see* **Atanassov, Krassimir T. et al.**, **2004i:68151**
Han, Yao Jun (*with* Jiang, Chang Jun; Luo, Xue Mei) An extended colored Petri net method for concurrency control of a database system. (Chinese. English and Chinese summaries)
Heckel, Reiko *see* **Ehrig, Hartmut et al.**, (**2004j:00032**)
Hélouët, Loïc (*with* Jard, Claude; Caillaud, Benoît) An event structure based semantics for high-level message sequence charts. (English summary) **2004a:68108**
Hennessy, Matthew A fully abstract denotational semantics for the π-calculus. (English summary) **2004c:68071**
Hermanns, Holger ★ Interactive Markov chains. **2004i:68163**
— *see also* **Lohrey, Markus et al.**
(Herzog, Ulrich) *see* **Hermanns, Holger**, **2004i:68163**
Hildebrandt, Thomas T. Towards categorical models for fairness: fully abstract presheaf semantics of SCCS with finite delay. (English summary) **2004e:68072**
— *see also* **Godskesen, Jens Chr. et al.**, (**2004j:68004**)
Hirschkoff, Daniel *see* **Teller, David et al.**, (**2004j:68004**)
Hoffmann, Kathrin *see* **Ehrig, Hartmut et al.**, (**2004j:00032**)
Honda, Kohei *see* **Yoshida, Nobuko et al.**, **2004d:68105**
Hu, Juan (*with* Liu, Li Hui; Fan, Zhi Hua; Li, Lei[2]; Wang, Chang Qing; Zhou, Wei Jie) Analysis for reachability problem of Petri net. (English summary)
Huang, Zhi Hua Petri-net-based model of 2-phrase-commit protocol. (Chinese. English and Chinese summaries)
Igarashi, Atsushi (*with* Kobayashi, Naoki) A generic type system for the pi-calculus. (English summary) **2004j:68132**
Igarashi, Yoshihide *see* **Omori, Michiko et al.**, **2004b:68118** *and* **Takamura, Masataka**
Ingólfsdóttir, Anna A semantic theory for value-passing processes based on the late approach. (English summary) **2004c:68099**
— *see also* **Aceto, Luca et al.**, **2004c:68090**
Jacquet, Jean-Marie *see* **Brogi, Antonio**, **2004a:68105** *and* **Brim, Luboš et al.**, **2004d:68098**
Jaekel, Marc-Thierry *see* **Matherat, Philippe**, **2004m:68179**
Jagadeesan, Radha *see* **Desharnais, Josée et al.**, **2004c:68096**
Jard, Claude *see* **Hélouët, Loïc et al.**, **2004a:68108**
Jenner, Lars *see* **Corradini, Flavio et al.**, **2004c:68094**
Jia, Guang Yu (*with* Wu, Zhe Hui; Zhang, Guang Sheng) Properties of union operation for Petri nets. (Chinese. English and Chinese summaries)
Jiang, Chang Jun *see* **Du, Yu Yue** *and* **Han, Yao Jun et al.**
Jiao, Li (*with* Cheung, To-Yat) Characterizing liveness monotonicity for weighted Petri nets in terms of siphon-based properties. (English summary) **2004h:68097**

Jin, Cheng Zhi *see* **Jin, Ying**, **2004b:68117**
Jin, Ying (*with* Jin, Cheng Zhi) Translating γ-calculus into action calculus. (Chinese. English and Chinese summaries) **2004b:68117**
Jucan, Toader (*with* Captarencu, Oana) Three level Petri nets. (English summary) **2004g:68122**
— *see also* **Vidraşcu, Cristian**, **2004h:68101**
Jurdziński, Marcin (*with* Nielsen, Mogens; Srba, Jiří) Undecidability of domino games and hhp-bisimilarity. (English summary) **2004c:68100**
Kapitonova, Yu. V. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al.**
Karatkevich, Andrei *see* **Węgrzyn, Agnieszka et al.**
Kazanavičius, Egidijus The evaluation and design methodology for real time systems. (English and Lithuanian summaries)
Khomenko, Victor (*with* Koutny, Maciej; Vogler, Walter) Canonical prefixes of Petri net unfoldings. (English summary) **2004i:68164**
Klaudel, Hanna (*with* Pommereau, Franck) A class of composable and preemptible high-level Petri nets with an application to multi-tasking systems. (English summary) **2004f:68109**
— *see also* **Devillers, Raymond et al.**, **2004b:68116** *and* **2004g:68120**
Kleijn, H. C. M. (*with* Koutny, Maciej) Causality semantics of Petri nets with weighted inhibitor arcs. (English summary) (*see* **2004j:68004**)
Kobayashi, Naoki A type system for lock-free processes. (English summary) **2004c:68101**
— *see also* **Igarashi, Atsushi**, **2004j:68132**
Kok, Joost N. *see* **Bonsangue, Marcello M. et al.**, **2004a:68104**
Kolev, Boyan (*with* Chountas, Panagiotis; Petrounias, Ilias) Intuitionistic fuzzy generalized nets in analyzing transaction database systems with continuous deadlock detection. (English summary)
Koutny, Maciej (*with* Pappalardo, Giuseppe) Behaviour abstraction for communicating sequential processes. (English summary) **2004g:68123**
— *see also* **Best, Eike et al.**, **2004c:68092**; **Devillers, Raymond et al.**, **2004g:68120**; **Khomenko, Victor et al.**, **2004i:68164**; **Burton, Jonathan et al.**, **2004m:68175** *and* **Kleijn, H. C. M.**, (**2004j:68004**)
Křetínský, Mojmír *see* **Brim, Luboš et al.**, **2004d:68098**
Krivoĭ, S. L. (*with* Matveeva, L. E.) Formal methods for the analysis of the properties of systems. (Russian. English and Ukrainian summaries)
Krob, Daniel (*with* Mairesse, Jean; Michos, Ioannis) On the average parallelism in trace monoids. (English summary) (*see* **2004j:68020**)
Kučera, Antonín[2] The complexity of bisimilarity-checking for one-counter processes. (English summary) **2004e:68073**
Kudlek, Manfred *see* **Czaja, Ludwik**, **2004k:68123**
Kummetz, Ralph (*with* Kuske, Dietrich) The topology of Mazurkiewicz traces. (English summary) **2004j:68133**
Kuske, Dietrich Towards a language theory for infinite N-free pomsets. (English summary) **2004c:68102**
— *see also* **Kummetz, Ralph**, **2004j:68133**
Kwiatkowska, Marta *see* **Baier, Christel**, **2004d:68097**
Laneve, Cosimo (*with* Victor, Björn) Solos in concert. (English summary)
Lanotte, Ruggero (*with* Maggiolo-Schettini, Andrea; Tini, Simone) Concurrency in timed automata. (English summary) **2004j:68134**
Lasota, Sławomir Decidability of strong bisimilarity for timed BPP. (English summary) (*see* **2004j:68004**)
Letichevskiĭ, A. A., Jr. *see* **Letichevskiĭ, Aleksandr Adol'fovich et al.**
Letichevskiĭ, Aleksandr Adol'fovich (*with* Kapitonova, Yu. V.; Volkov, V. A.; Vyshemirskiĭ, V. V.; Letichevskiĭ, A. A., Jr.) Insertion programming. (Russian. English and Ukrainian summaries)
Lhoussaine, Cédric *see* **Amadio, Roberto M. et al.**, **2004f:68108**
Li, Lei[2] *see* **Hu, Juan et al.**
Li, Yong-Jian (*with* Liu, Xin-Xin) Towards a theory of bisimulation for the higher-order process calculi. (English summary)
Lin, Hui Min Complete inference systems for weak bisimulation equivalences in the π-calculus. (English summary) **2004d:68101**
Liu, Li Hui *see* **Hu, Juan et al.**
Liu, Ping *see* **Peng, Rong et al.**
Liu, Xin-Xin *see* **Li, Yong-Jian**
Lohrey, Markus (*with* D'Argenio, Pedro R.; Hermanns, Holger) Axiomatising divergence. (English summary)
Lomazova, Irina A. Nested Petri nets: multi-level and recursive systems. (English summary) **2004i:68165**
— Modeling dynamic objects in distributed systems with nested Petri nets. (English summary) **2004i:68166**
— *see also* **Bashkin, Vladimir A.**, **2004i:68153**
López Pelayo, Fernando *see* **Cazorla, Diego et al.**, **2004c:68093**
Lu, Wei Ming[1] *see* **Pu, Fei et al.**
Lucanu, Dorel On bisimulation in hiddenCCS. (English summary)
— Relaxed models for rewriting logic. (English summary) **2004g:68124**
Luo, Junzhou (*with* Shen, Jun[1]) Synchro-net system: a Petri net model for higher-layer protocols. (English summary)
Luo, Xue Mei *see* **Han, Yao Jun et al.**
Lushman, Brad (*with* Cormack, Gordon V.) Proof of correctness of Ressel's adOPTed algorithm. **2004d:68102**
Maggiolo-Schettini, Andrea (*with* Tini, Simone) On disjunction of literals in triggers of statecharts transitions. **2004d:68103**
— *see also* **Lanotte, Ruggero et al.**, **2004j:68134** *and* **Gruska, Damas P.**
Mairesse, Jean *see* **Gaujal, Bruno et al.**, **2004c:68098** *and* **Krob, Daniel et al.**, (**2004j:68020**)
Majster-Cederbaum, Mila (*with* Wu, Jinzhao) Towards action refinement for true concurrent real time. (English summary) **2004f:68110**
Matherat, Philippe (*with* Jaekel, Marc-Thierry) Concurrent computing machines and physical space-time. (English summary) **2004m:68179**
Matveeva, L. E. *see* **Krivoĭ, S. L.**
Mazaré, Laurent *see* **Andreoli, Jean-Marc**, **2004k:68122**
Mcdowell, Raymond C. (*with* Miller, Dale A.; Palamidessi, Catuscia) Encoding transition systems in sequent calculus. (English summary) **2004c:68103**
Merro, Massimo (*with* Sassone, Vladimiro) Typing and subtyping mobility in boxed ambients. (English summary) (*see* **2004j:68004**)
Michos, Ioannis *see* **Krob, Daniel et al.**, (**2004j:68020**)
Middelburg, Cornelis A. Process algebra with nonstandard timing. (English summary) **2004f:68111**
Miller, Dale A. *see* **Mcdowell, Raymond C. et al.**, **2004c:68103**
Mislove, Michael *see* **Gastin, Paul**, **2004k:68126**
Misra, Kundan *see* **Farwer, Berndt**, **2004i:68161**
Mizuguchi, Daichi (*with* Yamaguchi, Kazunori[1]) Causal event structures with complete transformation rules. (English summary) **2004a:68109**
Montanari, Ugo *see* **Buscemi, Maria Grazia**, (**2004j:68004**) *and* **Bruni, Roberto**
Morin, Rémi *see* **Fanchon, Jean**, (**2004j:68004**)
Motegi, Kazuhiro *see* **Omori, Michiko et al.**, **2004b:68118**
Mukund, Madhavan Hereditary history preserving bisimulation is decidable for trace-labelled systems. (English summary) **2004k:68127**
Ni, Li Na *see* **Zeng, Qing Tian et al.**
Nielsen, Mogens (*with* Valencia, Frank D.) Temporal concurrent constraint programming: applications and behavior. (English summary) (*see* **2004j:00032**)
— *see also* **Jurdziński, Marcin et al.**, **2004c:68100**
Nikolova, Mariana P. (*with* Atanassov, Krassimir T.; Vasil'ev, Vasil S.) Generalized nets as tools for optimization of real processes. (English summary)
Núñez García, Manuel Algebraic theory of probabilistic processes. (English summary) **2004h:68098**
Nygaard, Mikkel (*with* Winskel, Glynn) HOPLA—a higher-order process language. (English summary) (*see* **2004j:68004**)
Obokata, Kumiko *see* **Omori, Michiko et al.**, **2004b:68118**
Omori, Michiko (*with* Obokata, Kumiko; Motegi, Kazuhiro; Igarashi, Yoshihide) Analysis of some lockout avoidance algorithms for the k-exclusion problem. (English summary) **2004b:68118**
Padberg, Julia *see* **Ehrig, Hartmut et al.**, (**2004j:00032**)
Palamidessi, Catuscia *see* **Mcdowell, Raymond C. et al.**, **2004c:68103**
Panangaden, Prakash *see* **Desharnais, Josée et al.**, **2004c:68095** *and* **2004c:68096**
Pancerz, Krzysztof (*with* Suraj, Zbigniew) Synthesis of Petri net models: a rough set approach. (English summary) **2004i:68167**
Pappalardo, Giuseppe *see* **Koutny, Maciej**, **2004g:68123** *and* **Burton, Jonathan et al.**, **2004m:68175**
Pardo, J. José *see* **Cazorla, Diego et al.**, **2004c:68093**
Pastor, Enric *see* **Carmona, Josep et al.**, **2004h:68096**
Pedrycz, Witold (*with* Camargo, Heloisa) Fuzzy timed Petri nets. (English summary) **2004k:68128**
Peng, Rong (*with* Chen, Xin-meng; Liu, Ping) ESeal calculus: a secure mobile calculus. (English summary)
Peters, James F. (*with* Ramanna, Sheela; Borkowski, Maciej; Skowron, Andrzej; Suraj, Zbigniew) Sensor, filter, and fusion models with rough Petri nets. (English summary)
Petrounias, Ilias *see* **Kolev, Boyan et al.**
Piazza, Carla *see* **Dovier, Agostino et al.**, **2004k:68124**
Pietkiewicz-Koutny, Marta Synthesising elementary net systems with inhibitor arcs from step transition systems. (English summary) **2004i:68168**
Policriti, Alberto *see* **Dovier, Agostino et al.**, **2004k:68124**
Pomello, Lucia *see* **Bernardinello, Luca et al.**, **2004c:68091**
Pommereau, Franck *see* **Klaudel, Hanna**, **2004f:68109** *and* **Devillers, Raymond et al.**, **2004g:68120**
Popova-Zeugmann, Louchka (*with* Werner, Matthias; Richling, Jan) Using state equation to prove non-reachability in timed Petrinets. (English summary) **2004j:68135**
— *see also* **Richling, Jan et al.**
Pratt, Vaughan R. Event-state duality: the enriched case. (English summary) **2004m:68180**
Pu, Fei (*with* Lu, Wei Ming[1]) Preservation of liveness and deadlock-freeness in synchronous synthesis of Petri net systems. (Chinese. English and Chinese summaries)
— (*with* Lu, Wei Ming[1]; Song, Wen[2]) Language recursiveness and liveness in sharing synthesis of Petri net systems. (Chinese. English and Chinese summaries)
Qi, Zhi Chang *see* **Dong, Wei**[2] **et al.**
Ramanna, Sheela *see* **Peters, James F. et al.**
Raussen, Martin State spaces and dipaths up to dihomotopy. (English summary) **2004g:68125**
Recalde, Laura *see* **Silva, Manuel**, (**2004g:00018**)
Reisig, Wolfgang The linear theory of multiset based dynamic systems. (*see* **2004k:68009**)
Reniers, M. A. (*with* Groote, Jan Friso; van der Zwaag, M. B.; van Wamel, J.) Completeness of timed μCRL. (English summary) **2004h:68099**
Richling, Jan (*with* Popova-Zeugmann, Louchka; Werner, Matthias) Verification of non-functional properties of a composable architecture with Petrinets. (English summary)
— *see also* **Popova-Zeugmann, Louchka et al.**, **2004j:68135**
Riemann, Robert-C. *see* **Devillers, Raymond et al.**, **2004b:68116**
Rotaru, Mihai *see* **Ciobanu, Gabriel**, **2004a:68106**
Sangiorgi, Davide Types, or: Where's the difference between CCS and π? (English summary) **2004m:68181**
Santone, Antonella *see* **Barbuti, Roberto et al.**
Sassone, Vladimiro *see* **Godskesen, Jens Chr. et al.**, (**2004j:68004**) *and* **Merro, Massimo**, (**2004j:68004**)
Schmidt, Karsten Narrowing Petri net state spaces using the state equation. (English summary) **2004i:68169**
Schröter, Claus *see* **Esparza, Javier**, **2004i:68159**
Segala, Roberto *see* **Cattani, Stefano**, (**2004j:68004**) *and* **Bandini, Emanuele**
Shalit, Steven *see* **van Breugel, Franck et al.**
Shannon, A. G. *see* **Atanassov, Krassimir T. et al.**, **2004i:68151**
Shen, Jun[1] *see* **Luo, Junzhou**
Silva, Manuel (*with* Recalde, Laura) Unforced continuous Petri nets and positive systems. (English summary) (*see* **2004g:00018**)
Skowron, Andrzej *see* **Peters, James F. et al.**

Sokołowski, Stefan Andrzej Investigation of concurrent processes by means of homotopy functors. (English summary) **2004f:68112**
Song, Wen[2] *see* **Pu, Fei et al.**
Srba, Jiří Strong bisimilarity and regularity of basic parallel processes is PSPACE-hard. (English summary) **2004m:68182**
— Strong bisimilarity of simple process algebras: complexity lower bounds. (English summary) **2004e:68074**
— Complexity of weak bisimilarity and regularity for BPA and BPP. (English summary) **2004j:68136**
— *see also* **Jurdziński, Marcin et al., 2004c:68100**
Stefanescu, G. Algebra of networks. (English summary) **2004h:68100**
Stehr, Mark-Oliver *see* **Coja-Oghlan, Amin, 2004m:68177**
Stirling, Colin Bisimulation and language equivalence. (English summary) **2004i:68170**
Suraj, Zbigniew *see* **Pancerz, Krzysztof, 2004i:68167** *and* **Peters, James F. et al.**
Tabakow, Iwan System diagnosis using Petri nets. (English summary)
Takamura, Masataka (*with* Igarashi, Yoshihide) Simple mutual exclusion algorithms based on bounded tickets on the asynchronous shared memory model. (English summary)
Teller, David (*with* Zimmer, Pascal; Hirschkoff, Daniel) Using ambients to control resources. (English summary) (*see* **2004j:68004**)
Tesei, Luca *see* **Barbuti, Roberto et al.**
Thiagarajan, P. S. Regular event structures and finite Petri nets: a conjecture. (English summary) (*see* **2004j:00032**)
— (*with* Walukiewicz, Igor) An expressively complete linear time temporal logic for Mazurkiewicz traces. (English summary) **2004a:68110**
Tini, Simone *see* **Maggiolo-Schettini, Andrea, 2004d:68103** *and* **Lanotte, Ruggero et al., 2004j:68134**
Touili, Tayssir *see* **Bouajjani, Ahmed et al., 2004h:68095**
Urbášek, Milan Net transformations for Petri net technology.
Valencia, Frank D. *see* **Nielsen, Mogens, (2004j:00032)**
Valero Ruiz, Valentín *see* **Cazorla, Diego et al., 2004c:68093**
Varpaaniemi, Kimmo Minimizing the number of successor states in the stubborn set method. (English summary) **2004i:68171**
Vasil′ev, Vasil S. *see* **Atanassov, Krassimir T. et al., 2004i:68151** *and* **Nikolova, Mariana P. et al.**
Victor, Björn *see* **Laneve, Cosimo**
Vidraşcu, Cristian Some applications of the minimal coverability structures. (English summary) **2004d:68104**
— (*with* Jucan, Toader) Concurrency-degrees for jumping Petri nets. (English summary) **2004h:68101**
— (*with* Jucan, Toader) On concurrency-degrees for jumping Petri nets. (English summary)
— Modelling a sender-receiver system. (English summary)
de Vink, E. P. *see* **Baeten, J. C. M., 2004m:68174**
Vogler, Walter Faster asynchronous systems. (English summary) **2004m:68183**
— *see also* **Corradini, Flavio et al., 2004c:68094** *and* **Khomenko, Victor et al., 2004i:68164**
Volkov, V. A. *see* **Letichevskiĭ, Aleksandr Adol′fovich et al.**
Völzer, Hagen Refinement-robust fairness. (English summary) (*see* **2004j:68004**)
Vyshemirskiĭ, V. V. *see* **Letichevskiĭ, Aleksandr Adol′fovich et al.**
Walukiewicz, Igor *see* **Thiagarajan, P. S., 2004a:68110**
van Wamel, J. *see* **Reniers, M. A. et al., 2004h:68099**
Wang, Chang Qing *see* **Hu, Juan et al.**
Wang, Ji *see* **Dong, Wei[2] et al.**
Węgrzyn, Agnieszka (*with* Karatkevich, Andrei; Bieganowski, Jacek) Detection of deadlocks and traps in Petri nets by means of Thelen's prime implicant method. (English summary)
Werner, Matthias *see* **Popova-Zeugmann, Louchka et al., 2004j:68135** *and* **Richling, Jan et al.**
Winkowski, Józef Reachability in contextual nets. (English summary) **2004i:68172**
— An algebraic characterization of independence of Petri net processes. (English summary) **2004i:68173**
Winskel, Glynn *see* **Cattani, Gian Luca, 2004g:68119** *and* **Nygaard, Mikkel, (2004j:68004)**
Worrell, James *see* **van Breugel, Franck et al.**
Wu, Jinzhao *see* **Majster-Cederbaum, Mila, 2004f:68110**
Wu, Zhe Hui *see* **Zeng, Qing Tian** *and* **Jia, Guang Yu et al.**
Wu, Zhi Ming[1] *see* **Cao, Mu Liang et al.**
Xia, Fei (*with* Clark, Ian) Algorithms for signal and message asynchronous communication mechanisms and their analysis. (English summary) **2004h:68102**
Xiao, Jun Mo Security problems for protection systems with the Petri net. (Chinese. English and Chinese summaries)
Yamaguchi, Kazunori[1] *see* **Mizuguchi, Daichi, 2004a:68109**
Yang, Gen Ke *see* **Cao, Mu Liang et al.**
Yen, Hsu-Chun A valuation-based analysis of conflict-free Petri nets. (English summary) **2004h:68103**
— (*with* Yu, Lien-Po) Petri nets with simple circuits. (English summary)
Ying, Ming-Sheng *see* **Feng, Yuan[2]**
Yoshida, Nobuko (*with* Honda, Kohei; Berger, Martin Friedrich) Linearity and bisimulation. (English summary) **2004d:68105**
Yu, Lien-Po *see* **Yen, Hsu-Chun**
Zappa Nardelli, Francesco *see* **Castagna, Giuseppe, (2004j:68011)**
Zavattaro, Gianluigi *see* **Bonsangue, Marcello M. et al., 2004a:68104** *and* **Busi, Nadia, 2004d:68099**
Zeng, Qing Tian (*with* Wu, Zhe Hui) Process expression of unbounded Petri net. (Chinese. English and Chinese summaries)
— (*with* Ni, Li Na; Fan, Hao; Duan, Hua) Methods for solving the subnet systems in operation of synchronization and sharing compositions. (Chinese. English and Chinese summaries)
— Behavior descriptions of structure-complex Petri nets based on synchronous composition. (English and Chinese summaries) **2004m:68184**
Zhang, Guang Sheng *see* **Jia, Guang Yu et al.**
Zhou, Wei Jie *see* **Hu, Juan et al.**
Zimmer, Pascal On the expressiveness of pure safe ambients. (English summary) **2004m:68185**
— *see also* **Teller, David et al., (2004j:68004)**
van der Zwaag, M. B. *see* **Reniers, M. A. et al., 2004h:68099**

Items listed otherwise than by author

Lecture Notes in Computer Science *see* **Hermanns, Holger, 2004i:68163**

Items with secondary classifications in 68Q85

van der Aalst, W. M. P. *see* **Kiepuszewski, B. et al., 2004d:68088**
Abramsky, Samson Sequentiality vs. concurrency in games and logic. (English summary) **2004m:03214**
(Aceto, Luca) *see* **Difference between concurrent and sequential computation**
Adsul, Bharat (*with* Sohoni, Milind) Complete and tractable local linear time temporal logics over traces. (English summary)
— (*with* Sohoni, Milind) Local normal forms for logics over traces. (English summary) **2004k:68102**
Aliyev, A. A. (*with* Yusubov, A. I.) Modified optimistic multiversion concurrency control algorithm in distributed databases. (English summary)
Antsaklis, Panos J. *see* **Iordache, Marian V., 2004i:93113** *and* **2004m:93084**
Arafeh, Bassel R. A task duplication scheme for resolving deadlocks in clustered DAGs. (English summary) **2004d:68012**
Arnold, André (*with* Vincent, Aymeric; Walukiewicz, Igor) Games for synthesis of controllers with partial observation. (English summary) **2004h:93121**
Asarin, E. A. (*with* Schneider, Gerardo) Widening the boundary between decidable and undecidable hybrid systems. (English summary) (*see* **2004j:68004**)
Attanasio, Candida (*with* Corradini, Flavio; Inverardi, Paola) Static analysis of real-time component-based systems configurations. (English summary) **2004b:68016**
de Azevedo Spinola, Ana Isabel (*with* Haeusler, Edward Hermann) Anticipatory topoi. (English summary) (*see* **2004d:00014**)
Baier, Christel (*with* Hermanns, Holger; Katoen, Joost-Pieter) Probabilistic weak simulation is decidable in polynomial time. (English summary) **2004j:68071**
Baldamus, Michael (*with* Schneider, Klaus[1]) The BDD space complexity of different forms of concurrency. (English summary) **2004i:68131**
Barbuti, Roberto (*with* De Francesco, Nicoletta; Tesei, Luca) Timed automata with non-instantaneous actions. (English summary) **2004i:68132**
— (*with* Tesei, Luca) A decidable notion of timed non-interference. (English summary) **2004i:68133**
Bartels, Falk Generalised coinduction. (English summary) **2004f:18007**
ter Beek, Maurice H. (*with* Kleijn, Jetty) Petri net control for grammar systems. (English summary) (*see* **2004j:00032**)
Benveniste, Albert (*with* Fabre, Eric; Haar, Stefan; Jard, Claude) Diagnosis of asynchronous discrete-event systems: a net unfolding approach. (English summary)
Bojańczyk, Mikołaj The finite graph problem for two-way alternating automata. (English summary) **2004c:68067**
Bouyer, Patricia (*with* Petit, Antoine) A Kleene/Büchi-like theorem for clock languages. (English summary) **2004d:68069**
(Brauer, Wilfried) *see* **Formal and natural computing, 2004j:00032**
van Breugel, Franck (*with* Worrell, James) Towards quantitative verification of probabilistic transition systems. (English summary)
— De Bakker-Zucker processes revisited. (English summary) **2004i:18008**
(Brim, Luboš) *see* **CONCUR 2002—concurrency theory, 2004j:68004**
Bruni, Roberto (*with* Laneve, Cosimo; Montanari, Ugo) Orchestrating transactions in join calculus. (English summary) (*see* **2004j:68004**)
Buchholz, Peter (*with* Kemper, Peter) Weak bisimulation for (max/+) automata and related models. (English summary) **2004g:68085**
— (*with* Katoen, Joost-Pieter; Kemper, Peter; Tepper, Carsten) Model-checking large structured Markov chains. (English summary) **2004f:68089**
Bulitko, Vadim (*with* Wilkins, David C.) Qualitative simulation of temporal concurrent processes using time interval Petri nets. (English summary) **2004b:68160**
(Burkhard, Hans-Dieter) *see* **Concurrency specification and programming** *and* **Special Issue: Concurrency specification and programming**
Carbunar, Bogdan (*with* Tulio Valente, Marco; Vitek, Jan) Coordination and mobility in CoreLime. (English summary)
Cardelli, Luca (*with* Gardner, Philippa; Ghelli, Giorgio) A spatial logic for querying graphs. (English summary)
(Carlsson, Gunnar) *see* **Algebraic topological methods in computer science**
Carlsson, Magnus *see* **Moran, Andrew et al., 2004c:68021**
Castellini, Claudio (*with* Giunchiglia, Enrico; Tacchella, Armando) SAT-based planning in complex domains: concurrency, constraints and nondeterminism. (English summary) **2004e:68093**
Charatonik, Witold (*with* Dal Zilio, Silvano; Gordon, Andrew D.; Mukhopadhyay, Supratik; Talbot, Jean-Marc) Model checking mobile ambients. (English summary) **2004i:68134**
Chen, Zhen Qiang (*with* Xu, Bao Wen; Xu, Lei; Zhang, Bin) A framework to analyze testability of concurrent programs. (Chinese. English and Chinese summaries)
Chu, Jian *see* **Wu, Wei-Min et al.**
Corradini, Flavio *see* **Attanasio, Candida et al., 2004b:68016**
Crazzolara, Federico (*with* Winskel, Glynn) Composing strand spaces. (English summary) **2004k:68041**
(Czaja, Ludwik) *see* **Concurrency specification and programming** *and* **Special Issue: Concurrency specification and programming**
Dal Zilio, Silvano *see* **Charatonik, Witold et al., 2004i:68134**
Dam, Mads Proof systems for π-calculus logics. (English summary) **2004j:68113**
Dang, Zhe (*with* Ibarra, Oscar H.; Kemmerer, Richard A.) Generalized discrete timed automata: decidable approximations for safety verification. (English summary) **2004b:68105**
— *see also* **Ibarra, Oscar H. et al., 2004g:68109**
Dean, Thomas *see* **Givan, Robert et al., 2004f:68142**
De Francesco, Nicoletta (*with* Santone, Antonella; Tesei, Luca) Abstract interpretation

and model checking for checking secure information flow in concurrent systems. (English summary) **2004k:68105**
— *see also* **Barbuti, Roberto et al., 2004i:68132**
Dekhtyar, Mikhail I. (*with* Dikovskiĭ, A. Ya.; Valiev, M. K.) On feasible cases of checking multi-agent systems behavior. (English summary) **2004f:68090**
Delzanno, Giorgio (*with* Raskin, Jean-François; Van Begin, Laurent) Attacking symbolic state explosion. (English summary) (*see* **2004j:68007**)
Dembiński, Piotr (*with* Penczek, Wojciech; Półtrola, Agata) Verification of timed automata based on similarity. (English summary) **2004i:68136**
De Nicola, Rocco (*with* Loreti, Michele) A modal logic for mobile agents. (English summary) **2004k:68106**
Diekert, Volker (*with* Muscholl, Anca) Solvability of equations in free partially commutative groups is decidable. (English summary)
— (*with* Gastin, Paul) Safety and liveness properties for real traces and a direct translation from LTL to monoids. (English summary) (*see* **2004j:00032**)
Dikovskiĭ, A. Ya. *see* **Dekhtyar, Mikhail I. et al., 2004f:68090**
Dong, Li-Da *see* **Wu, Wei-Min et al.**
(Droste, Manfred) *see* **Logic and algebra for concurrency**
Ehrig, Hartmut *see* **Heckel, Reiko et al., 2004c:68108** *and* **Formal and natural computing, 2004j:00032**
El-Mabrouk, Nadia (*with* Sankoff, David) The reconstruction of doubled genomes. (English summary) **2004h:68150**
Emerson, E. Allen (*with* Namjoshi, Kedar S.) On reasoning about rings. (English summary) **2004m:68155**
Esparza, Javier Grammars as processes. (*see* **2004j:00032**)
— *see also* **Kučera, Antonín[2], 2004m:68162**
Fabre, Eric *see* **Benveniste, Albert et al.**
Fajstrup, Lisbeth Discovering spaces. (English summary) **2004e:55019**
Fokkink, Willem Jan (*with* Vu, Thuy Duong) Structural operational semantics and bounded nondeterminism. (English summary) **2004e:68062**
Gardner, Philippa *see* **Cardelli, Luca et al.**
Gastin, Paul (*with* Mukund, Madhavan) An elementary expressively complete temporal logic for Mazurkiewicz traces. (English summary)
— *see also* **Logic and algebra for concurrency** *and* **Diekert, Volker, (2004j:00032)**
Gaucher, Philippe Automate parallèle à homotopie près. I. (English and French summaries) [Concurrent process up to homotopy. I] **2004c:55027**
— Automate parallèle à homotopie près. II. (English and French summaries) [Concurrent process up to homotopy. II] **2004c:55028**
— (*with* Goubault, Éric) Topological deformation of higher dimensional automata. (English summary) **2004i:55011**
— The branching nerve of HDA and the Kan condition. (English summary) **2004b:55026**
Ghelli, Giorgio *see* **Cardelli, Luca et al.**
Giesl, Jürgen (*with* Zantema, Hans) Liveness in rewriting. (English summary)
Giorgetti, Alain An asymptotic study for path reversal. (English summary) **2004g:68208**
Giunchiglia, Enrico *see* **Castellini, Claudio et al., 2004e:68093**
Givan, Robert (*with* Dean, Thomas; Greig, Matthew) Equivalence notions and model minimization in Markov decision processes. (English summary) **2004f:68142**
Godefroid, Patrice *see* **Sistla, A. Prasad, (2004j:68007)**
Gordon, Andrew D. *see* **Charatonik, Witold et al., 2004i:68134**
Goubault, Éric *see* **Gaucher, Philippe, 2004i:55011**
Grandis, Marco Directed homotopy theory. I. (French summary) **2004k:55019**
— Ordinary and directed combinatorial homotopy, applied to image analysis and concurrency. (English summary) **2004g:68185**
Greig, Matthew *see* **Givan, Robert et al., 2004f:68142**
Gribaudo, Marco (*with* Horváth, András) Modeling hybrid positive systems with hybrid Petri nets. (English summary) **2004j:93074**
Grumberg, Orna (*with* Heyman, Tamir; Schuster, Assaf) Distributed symbolic model checking for μ-calculus. (English summary) (*see* **2004j:68007**)
Haar, Stefan Probabilistic cluster unfoldings. (English summary) **2004g:68044**
— *see also* **Benveniste, Albert et al.**
Haeusler, Edward Hermann *see* **de Azevedo Spinola, Ana Isabel, (2004d:00014)**
Heckel, Reiko (*with* Llabrés, Mercè; Ehrig, Hartmut; Orejas, Fernando) Concurrency and loose semantics of open graph transformation systems. (English summary) **2004c:68108**
Heljanko, Keijo (*with* Niemelä, Ilkka) Bounded LTL model checking with stable models. (English summary) **2004i:68137**
Hennessy, Matthew *see* **Riely, James**
Hermanns, Holger *see* **Baier, Christel et al., 2004j:68071**
Heyman, Tamir *see* **Grumberg, Orna et al., (2004j:68007)**
Hirschkoff, Daniel *see* **Röckl, Christine**
ter Hofstede, A. H. M. *see* **Kiepuszewski, B. et al., 2004d:68088**
Horváth, András *see* **Gribaudo, Marco, 2004j:93074**
Ibarra, Oscar H. (*with* Dang, Zhe; San Pietro, Pierluigi) Verification in loosely synchronous queue-connected discrete timed automata. (English summary) **2004g:68109**
— *see also* **Dang, Zhe et al., 2004b:68105**
Igarashi, Yoshihide *see* **Takamura, Masataka**
Inverardi, Paola *see* **Attanasio, Candida et al., 2004b:68016**
Iordache, Marian V. (*with* Antsaklis, Panos J.) Design of $\mathcal{T}$-liveness enforcing supervisors in Petri nets. (English summary) **2004m:93084**
— (*with* Antsaklis, Panos J.) Synthesis of supervisors enforcing ganeral linear constraints in Petri nets. (English summary) **2004i:93113**
Ito, Masami[1] (*with* Kunimoch, Yoshiyuki) Some petri net languages and codes. (English summary) **2004a:68073**
Jacobs, Bart The temporal logic of coalgebras via Galois algebras. (English summary) **2004a:03027**
Jančar, Petr (*with* Kučera, Antonín[2]; Moller, Faron; Sawa, Zdeněk) Equivalence-checking with one-counter automata: a generic method for proving lower bounds. (English summary) **2004a:68036**
— *see also* **CONCUR 2002—concurrency theory, 2004j:68004**
Janssens, Gerrit K. *see* **Sörensen, Kenneth**
Jard, Claude *see* **Benveniste, Albert et al.**
Jia, Jian-Yuan *see* **Li, Zhi-Wu**
Kamide, Norihiro Sequent calculi for intuitionistic linear logic with strong negation. (English summary) **2004a:03071**
(Karhumäki, Juhani) *see* **Formal and natural computing, 2004j:00032**
Katoen, Joost-Pieter *see* **Buchholz, Peter et al., 2004f:68089** *and* **Baier, Christel et al., 2004j:68071**
Keidar, Idit (*with* Khazan, Roger) A virtually synchronous group multicast algorithm for WANs: formal approach. (English summary) **2004a:68007**
Kemmerer, Richard A. *see* **Dang, Zhe et al., 2004b:68105**
Kemper, Peter *see* **Buchholz, Peter et al., 2004f:68089** *and* **2004g:68085**
Kesten, Yonit (*with* Pnueli, Amir; Shahar, Elad; Zuck, Lenore) Network invariants in action. (English summary) (*see* **2004j:68004**)
Khazan, Roger *see* **Keidar, Idit, 2004a:68007**
Khomenko, Victor (*with* Koutny, Maciej; Vogler, Walter) Canonical prefixes of Petri net unfoldings. (English summary)
Kick, Marco Bialgebraic modelling of timed processes. (English summary)
Kiepuszewski, B. (*with* ter Hofstede, A. H. M.; van der Aalst, W. M. P.) Fundamentals of control flow in workflows. (English summary) **2004d:68088**
Kiritsis, Dimitris *see* **Neuendorf, Klaus-Peter et al., 2004i:90053**
Kirsten, Daniel (*with* Marcinkowski, Jerzy) Two techniques in the area of the star problem in trace monoids. (English summary) **2004h:68068**
Kleijn, Jetty *see* **ter Beek, Maurice H., (2004j:00032)**
Kleist, Josva *see* **Merro, Massimo et al., 2004c:68022a; 2004c:68022b** *and* **Errata: "Mobile objects as mobile processes", 2004c:68022b**
Kostin, Alexander E. Reachability analysis in T-invariant-less Petri nets. (English summary) **2004d:93085**
Koutny, Maciej *see* **Khomenko, Victor et al.**
(Křetínský, Mojmír) *see* **CONCUR 2002—concurrency theory, 2004j:68004**
Kučera, Antonín[2] (*with* Mayr, Richard) Why is simulation harder than bisimulation? (English summary) (*see* **2004j:68004**)
— (*with* Mayr, Richard) On the complexity of semantic equivalences for pushdown automata and BPA. (English summary)
— (*with* Esparza, Javier) A logical viewpoint on process-algebraic quotients. (English summary) **2004m:68162**
— *see also* **Jančar, Petr et al., 2004a:68036** *and* **CONCUR 2002—concurrency theory, 2004j:68004**
Kunc, Michal Undecidability of the trace coding problem and some decidable cases. (English summary) **2004h:68070**
Kunimoch, Yoshiyuki *see* **Ito, Masami[1], 2004a:68073**
Kuske, Dietrich (*with* Morin, Rémi) Pomsets for local trace languages. (English summary) **2004e:68058**
Laneve, Cosimo *see* **Bruni, Roberto et al., (2004j:68004)**
Lange, Martin Local model checking games for fixed point logic with chop. (English summary) (*see* **2004j:68004**)
Lee, Dong-Ho *see* **Neuendorf, Klaus-Peter et al., 2004i:90053**
Li, Zhi-Wu (*with* Jia, Jian-Yuan) A fairness and liveness control policy of Petri net models for automated manufacturing systems. (English and Chinese summaries)
— (*with* Wang, An-Rong) A Petri net based deadlock prevention approach for flexible manufacturing systems. (English and Chinese summaries)
Lin, Hui Min *see* **Xue, Rui, 2004h:68086**
(Lindemann, Gabriela) *see* **Special Issue: Concurrency specification and programming**
Liu, Yun Sheng *see* **Qin, Biao et al.**
Llabrés, Mercè *see* **Heckel, Reiko et al., 2004c:68108**
Lohrey, Markus Safe realizability of high-level message sequence charts. (English summary) (*see* **2004j:68004**)
(Longo, Giuseppe[1]) *see* **Difference between concurrent and sequential computation**
Loreti, Michele *see* **De Nicola, Rocco, 2004k:68106**
Luttik, Bas On the expressiveness of choice quantification. (English summary) **2004m:03120**
Luukkainen, Matti *see* **Malinen, Tuomo, 2004m:68163**
Madhusudan, P. (*with* Thiagarajan, P. S.) Branching time controllers for discrete event systems. (English summary) **2004c:68085**
Malinen, Tuomo (*with* Luukkainen, Matti) Fairness in automata theoretic model checking. (English and Estonian summaries) **2004m:68163**
Marcinkowski, Jerzy *see* **Kirsten, Daniel, 2004h:68068**
Mateescu, Alexandru (*with* Salomaa, Arto) Nondeterministic trajectories. (English summary) (*see* **2004j:00032**)
Mateescu, Radu (*with* Sighireanu, Mihaela) Efficient on-the-fly model-checking for regular alternation-free mu-calculus. (English summary) **2004a:68094**
Mayr, Richard *see* **Kučera, Antonín[2], (2004j:68004)**
McIver, Annabelle (*with* Morgan, Carroll C.) Almost-certain eventualities and abstract probabilities in the quantitative temporal logic qTL. (English summary) **2004i:68066**
Merro, Massimo (*with* Kleist, Josva; Nestmann, Uwe) Mobile objects as mobile processes. (English summary) **2004c:68022a**
— *see also* **Errata: "Mobile objects as mobile processes", 2004c:68022b**
Mohalik, Swarup (*with* Ramanujam, Ramaswamy) Distributed automata in an assumption-commitment framework. (English summary) **2004f:68099**
Moller, Faron *see* **Jančar, Petr et al., 2004a:68036**
Montanari, Ugo *see* **Bruni, Roberto et al., (2004j:68004)**
Moran, Andrew (*with* Sands, David; Carlsson, Magnus) Erratic Fudgets: a semantic theory for an embedded coordination language. (English summary) **2004c:68021**
Morgan, Carroll C. *see* **McIver, Annabelle, 2004i:68066**
Morin, Rémi *see* **Kuske, Dietrich, 2004e:68058**
Mukhopadhyay, Supratik *see* **Charatonik, Witold et al., 2004i:68134**
Mukund, Madhavan *see* **Gastin, Paul**
Muscholl, Anca *see* **Diekert, Volker**
Namjoshi, Kedar S. *see* **Emerson, E. Allen, 2004m:68155**
Nestmann, Uwe (*with* Panangaden, Prakash) Guest editors' foreword: [9th International workshop on Expressiveness in concurrency (EXPRESS'02)].

— *see also* **Merro, Massimo et al., 2004c:68022a; 2004c:68022b** *and* **Errata: "Mobile objects as mobile processes", 2004c:68022b**
Neuendorf, Klaus-Peter (*with* Lee, Dong-Ho; Kiritsis, Dimitris; Xirouchakis, Paul) Disassembly scheduling with parts commonality using Petri nets with timestamps. (English summary) **2004i:90053**
Niemelä, Ilkka *see* **Heljanko, Keijo, 2004i:68137**
Orejas, Fernando *see* **Heckel, Reiko et al., 2004c:68108**
Panangaden, Prakash *see* **Nestmann, Uwe**
Penczek, Wojciech *see* **Dembiński, Piotr et al., 2004i:68136**
Peter, Christof *see* **Puntigam, Franz, 2004f:68021**
Petit, Antoine *see* **Bouyer, Patricia, 2004d:68069**
Pnueli, Amir *see* **Kesten, Yonit et al., (2004j:68004)**
Pólrola, Agata *see* **Dembiński, Piotr et al., 2004i:68136**
Puntigam, Franz (*with* Peter, Christof) Types for active objects with static deadlock prevention. (English summary) **2004f:68021**
Qin, Biao (*with* Liu, Yun Sheng; Yang, JinCai) A commit strategy for distributed real-time transaction. (English summary)
(de Queiroz, Ruy J. G. B.) *see* **Logic for concurrency and synchronisation, 2004f:03055**
Ramanujam, Ramaswamy *see* **Mohalik, Swarup, 2004f:68099**
Ranganayakulu, D. *see* **Thirusangu, K. et al., 2004e:05086**
Rangarajan, K. *see* **Thirusangu, K. et al., 2004e:05086**
Raskin, Jean-François *see* **Delzanno, Giorgio et al., (2004j:68007)**
Resende, Pedro Quantales and observational semantics. **2004d:06017**
— (*with* Vickers, Steven) Localic sup-lattices and tropological systems. (English summary) **2004i:68130**
Riely, James (*with* Hennessy, Matthew) Trust and partial typing in open systems of mobile agents. (English summary)
Röckl, Christine (*with* Hirschkoff, Daniel) A fully adequate shallow embedding of the π-calculus in Isabelle/HOL with mechanized syntax analysis. (English summary)
Rosaz, Laurent The word problem for $1\mathscr{LC}$ congruences is NP-hard. (English summary) **2004g:68097**
(Rozenberg, Grzegorz) *see* **Formal and natural computing, 2004j:00032**
Salomaa, Arto *see* **Formal and natural computing, 2004j:00032** *and* **Mateescu, Alexandru, (2004j:00032)**
Sands, David *see* **Moran, Andrew et al., 2004c:68021**
Sangiorgi, Davide (*with* Valente, Andrea) A distributed abstract machine for safe ambients (extended abstract).
Sankoff, David *see* **El-Mabrouk, Nadia, 2004h:68150**
San Pietro, Pierluigi *see* **Ibarra, Oscar H. et al., 2004g:68109**
Santone, Antonella *see* **De Francesco, Nicoletta et al., 2004k:68105**
Sauer, Nathalie Marking optimization of weighted marked graphs. (English summary) **2004e:90151**
Sawa, Zdeněk *see* **Jančar, Petr et al., 2004a:68036**
Schneider, Gerardo *see* **Asarin, E. A., (2004j:68004)**
Schneider, Klaus[1] *see* **Baldamus, Michael, 2004i:68131**
Schöpp, Ulrich (*with* Simpson, Alex) Verifying temporal properties using explicit approximants: completeness for context-free processes. (English summary) **2004a:68097**
Schuster, Assaf *see* **Grumberg, Orna et al., (2004j:68007)**
Shahar, Elad *see* **Kesten, Yonit et al., (2004j:68004)**
Sighireanu, Mihaela *see* **Mateescu, Radu, 2004a:68094**
Simpson, Alex *see* **Schöpp, Ulrich, 2004a:68097**
Sistla, A. Prasad (*with* Godefroid, Patrice) Symmetry and reduced symmetry in model checking. (English summary) (*see* **2004j:68007**)
Smith, Jonathan D. H. A coalgebraic approach to quasigroup permutation representations. (English summary) **2004a:20075**
Sohoni, Milind *see* **Adsul, Bharat, 2004k:68102**
Sorea, Maria A decidable fixpoint logic for time-outs. (English summary) (*see* **2004j:68004**)
Sörensen, Kenneth (*with* Janssens, Gerrit K.) A Petri net model of a continuous flow transfer line with unreliable machines. (English summary)
Srba, Jiří Strong bisimilarity in regularity of basic process algebra is PSPACE-hard. (English summary)
— Note on the tableau technique for commutative transition systems. (English summary) **2004a:68098**
Stark, Eugene W. On behaviour equivalence for probabilistic I/O automata and its relationship to probabilistic bisimulation. (English summary) **2004h:68075**
(Starke, Peter) *see* **Concurrency specification and programming** *and* **Special Issue: Concurrency specification and programming**
Su, Hong Ye *see* **Wu, Wei-Min et al.**
Tacchella, Armando *see* **Castellini, Claudio et al., 2004e:68093**
Takamura, Masataka (*with* Igarashi, Yoshihide) Group mutual exclusion algorithms based on ticket orders. (English summary)
Talbot, Jean-Marc *see* **Charatonik, Witold et al., 2004i:68134**
Tepper, Carsten *see* **Buchholz, Peter et al., 2004f:68089**
Tesei, Luca *see* **Barbuti, Roberto et al., 2004i:68132; 2004i:68133** *and* **De Francesco, Nicoletta et al., 2004k:68105**
Thiagarajan, P. S. *see* **Madhusudan, P., 2004c:68085**
Thirusangu, K. (*with* Ranganayakulu, D.; Rangarajan, K.) Marked graphs and p-groups. (English summary) **2004e:05086**
Tini, Simone An axiomatic semantics for the synchronous language Gentzen. (English summary) **2004c:68016**
Tulio Valente, Marco *see* **Carbunar, Bogdan et al.**
Valente, Andrea *see* **Sangiorgi, Davide**
Valiev, M. K. *see* **Dekhtyar, Mikhail I. et al., 2004f:68090**
Van Begin, Laurent *see* **Delzanno, Giorgio et al., (2004j:68007)**
Varpaaniemi, Kimmo Towards ambitious approximation algorithms in stubborn set optimization. (English summary) **2004i:68250**
Vickers, Steven *see* **Resende, Pedro, 2004i:68130**
(Victor, Björn) *see* **Difference between concurrent and sequential computation**
Villemaire, Roger An approximation semantics for the propositional mu-calculus. (English summary)
Vincent, Aymeric *see* **Arnold, André et al., 2004h:93121**
Vitek, Jan *see* **Carbunar, Bogdan et al.**
Vogler, Walter (*with* Wollowski, Ralf) Decomposition in asynchronous circuit design. (English summary) (*see* **2004j:68011**)
— *see also* **Khomenko, Victor et al.**
Vu, Thuy Duong *see* **Fokkink, Willem Jan, 2004e:68062**
Walukiewicz, Igor Local logics for traces. (English summary) **2004f:68102**
— *see also* **Arnold, André et al., 2004h:93121**
Wang, An-Rong *see* **Li, Zhi-Wu**
Wang, Xiao *see* **Wu, Wei-Min et al.**
Watanabe, Harumi A static slicing technique of coloured Petri nets for object-oriented software testing. (Japanese. English and Japanese summaries)
Wilkins, David C. *see* **Bulitko, Vadim, 2004b:68160**
Winskel, Glynn *see* **Crazzolara, Federico, 2004k:68041**
Wollowski, Ralf *see* **Vogler, Walter, (2004j:68011)**
Worrell, James *see* **van Breugel, Franck**
Wu, Wei-Min (*with* Dong, Li-Da; Wang, Xiao; Su, Hong Ye; Chu, Jian) Combined Petri net controller for discrete event systems. (English and Chinese summaries)
Xirouchakis, Paul *see* **Neuendorf, Klaus-Peter et al., 2004i:90053**
Xu, Bao Wen *see* **Chen, Zhen Qiang et al.**
Xu, Lei *see* **Chen, Zhen Qiang et al.**
Xue, Rui (*with* Lin, Hui Min) On decidability and model checking for a first order modal logic for value-passing processes. (English summary) **2004h:68086**
Yamane, Satoshi Formal refinement verification method of real-time systems with discrete probability distributions. (Japanese. English and Japanese summaries)
Yang, JinCai *see* **Qin, Biao et al.**
Yusubov, A. I. *see* **Aliyev, A. A.**
Zaborowski, Mirosław Industrial Petri nets. (English summary)
Zantema, Hans *see* **Giesl, Jürgen**
Zhang, Bin *see* **Chen, Zhen Qiang et al.**
Zuberek, W. M. Analysis of performance bottlenecks in multithreaded multiprocessor systems. (English summary) **2004h:68014**
Zuck, Lenore *see* **Kesten, Yonit et al., (2004j:68004)**

Items listed otherwise than by author

Algebraic topological methods in computer science ★ Algebraic topological methods in computer science.
Berlin ★ Special issue on concurrency specification and programming.
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Brno ★ CONCUR 2002—concurrency theory. **2004j:68004**
CONCUR 2002—concurrency theory ★ CONCUR 2002—concurrency theory. **2004j:68004**
Concurrency specification and programming ★ Concurrency specification and programming.
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"Mobile objects as mobile processes" Erratum: "Mobile objects as mobile processes" [Inform. and Comput. **177** (2002), no. 2, 195–241; MR 2004c:68022a] by M. Merro, J. Kleist and U. Nestmann. **2004c:68022b**
Formal and natural computing ★ Formal and natural computing. **2004j:00032**
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— ★ CONCUR 2002—concurrency theory. **2004j:68004**
Logic and algebra for concurrency ★ Logic and algebra for concurrency.
Logic for concurrency and synchronisation ★ Logic for concurrency and synchronisation. **2004f:03055**
Newcastle upon Tyne ★ Special issue on application of concurrency to system design.
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Application of concurrency to system design ★ Special issue on application of concurrency to system design.
Concurrency specification and programming ★ Special issue on concurrency specification and programming.
— ★ Special issue on concurrency specification and programming. Part 1.
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Stanford, CA ★ Algebraic topological methods in computer science.
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68Q99 None of the above, but in this section

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68Rxx Discrete mathematics in relation to computer science

68R01 General

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68R05 Combinatorics

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— (*with* Atkinson, M. D.; Ruškuc, Nik) Regular closed sets of permutations. (English summary) **2004d:68106**
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Skiena, Steven *see* **Pemmaraju, Sriram, 2004j:05002**
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Stacho, Ladislav *see* **Mañuch, Ján, 2004j:68028**
Stardom, John *see* **Moura, Lucia et al., 2004h:05022**
Stephen, Tamon *see* **Barvinok, A. I., 2004b:90077**
Stevens, Brett *see* **Moura, Lucia et al., 2004h:05022**
Stoye, Jens *see* **Bergeron, Anne**
Suraweera, Francis *see* **Nikoloski, Zoran et al., 2004e:05171**
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Vaccaro, Ugo *see* **De Bonis, Annalisa, 2004i:68010**
Vahidi-Asl, Mohammad Q. *see* **Javanian, Mehri**
Vatter, Vincent R. *see* **Murphy, Maximillian M., 2004i:06004**
Wagaman, A. *see* **Holdener, J., 2004d:68129**
Walter, Maria Emilia M. T. (*with* de Oliveira, E. T. G.) Extension of the Bafna-Pevzner theory for the transposition sorting problem. (Portuguese. English and Portuguese summaries) **2004e:68118**

Wen, Zhong Hua An algorithm for the weighing-ball problem. (Chinese. English and Chinese summaries)
Wetzel, Susanne *see* **Backes, Werner**, **2004c:68162**
Williams, Alan W. *see* **Moura, Lucia et al.**, **2004b:05022**
Woeginger, Gerhard J. *see* **Born, Axel et al.**, **2004b:05026**
Xiang, Limin (*with* Ushijima, Kazuo; Zhao, Jianjun) An $O(1)$ time algorithm for generating restricted permutations. (English summary)
Yanagisawa, Hiroki *see* **Halldórsson, Magnús M. et al.**
Yooseph, Shibu *see* **Halldórsson, Bjarni V. et al.**, (**2004k:68004**)
Zagaglia Salvi, Norma *see* **Munarini, Emanuele**, **2004m:05013**
Zhao, Jianjun *see* **Xiang, Limin et al.**

Items listed otherwise than by author

Random generation of combinatorial objects and bijective combinatorics ★ Random generation of combinatorial objects and bijective combinatorics.

68R10 Graph theory [see also 05Cxx, 90B10, 90B35, 90C35]

Abelson, David (*with* Hong, Seok-Hee; Taylor, Donald E.) A group-theoretic method for drawing graphs symmetrically. (English summary)
Agnarsson, Geir (*with* Damaschke, Peter; Halldórsson, Magnús M.) Powers of geometric intersection graphs and dispersion algorithms. (English summary)
Alber, Jochen (*with* Fernau, Henning; Niedermeier, Rolf) Graph separators: a parameterized view. (English summary) **2004m:68188**
Alon, Noga (*with* Capalbo, M.) Smaller explicit superconcentrators. (English summary) (*see* **2004a:68002**)
Alstrup, Stephen (*with* Bille, Philip; Rauhe, Theis) Labeling schemes for small distances in trees. (English summary) (*see* **2004a:68002**)
Alzoubi, Khaled M. (*with* Wan, Peng-Jun; Frieder, Ophir) Maximal independent set, weakly-connected dominating set, and induced spanners in wireless ad hoc networks. (English summary) **2004c:68105**
Andreou, Maria I. (*with* Fotakis, Dimitris A.; Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) On radiocoloring hierarchically specified planar graphs: $\mathcal{NP}$-completeness and approximations. (English summary)
Bachl, Sabine (*with* Brandenburg, Franz-Josef) Computing and drawing isomorphic subgraphs. (English summary)
Bachl, Walter Semi-dynamic orthogonal drawings of planar graphs (extended abstract). (English summary)
Barak, Amnon *see* **Okun, Michael**, **2004h:68106**
Barth, Dominique *see* **Corteel, Sylvie et al.**, **2004d:68114**
Barth, Wilhelm (*with* Jünger, Michael; Mutzel, Petra) Simple and efficient bilayer cross counting. (English summary)
Bartha, Miklós (*with* Krész, Miklós) Isolating the families of soliton graphs. (English summary) **2004j:68139**
Bass, Douglas W. (*with* Sudborough, I. Hal) Hamilton decompositions and $(n/2)$-factorizations of hypercubes. (English summary) **2004e:68077**
Becker, Bernd *see* **Eschbach, Thomas et al.**
Berry, Anne (*with* Blair, Jean R. S.; Heggernes, Pinar) Maximum cardinality search for computing minimal triangulations. (English summary)
— (*with* Blair, Jean R. S.; Heggernes, Pinar; Peyton, Barry W.) Maximum cardinality search for computing minimal triangulations of graphs. (English summary) **2004m:68189**
Bespamyatnikh, Sergei *see* **Spriggs, Michael J. et al.**, **2004k:68136**
Biedl, Therese C. Drawing outer-planar graphs in $O(n \log n)$ area. (English summary)
Bille, Philip *see* **Alstrup, Stephen et al.**, (**2004a:68002**)
Binucci, Carla (*with* Didimo, Walter; Liotta, Giuseppe; Nonato, Maddalena) Computing labeled orthogonal drawings. (English summary)
Björklund, Andreas (*with* Husfeldt, Thore) Finding a path of superlogarithmic length. (English summary) **2004j:68140**
Blair, Jean R. S. *see* **Berry, Anne et al.**, **2004m:68189**
Böckenhauer, Hans-Joachim (*with* Bongartz, Dirk; Hromkovič, Juraj; Klasing, Ralf; Proietti, Guido; Seibert, Sebastian; Unger, Walter) On the hardness of constructing minimal 2-connected spanning subgraphs in complete graphs with sharpened triangle inequality (extended abstract). (English summary) (*see* **2004j:68011**)
Bodlaender, Hans L. (*with* Fomin, Fedor V.) Tree decompositions with small cost. (English summary)
— (*with* Rotics, Udi) Computing the treewidth and the minimum fill-in with the modular decomposition. (English summary) **2004c:68106**
— *see also* **van den Eijkhof, Frank**
Boginski, Vladimir (*with* Butenko, Sergiy; Pardalos, Panos M.) Modeling and optimization in massive graphs. (English summary) **2004j:68141**
Bohman, Tom (*with* Frieze, Alan) Arc-disjoint paths in expander digraphs. (English summary) **2004d:68109**
Boldi, Paolo (*with* Vigna, Sebastiano) Lower bounds for weak sense of direction. (English summary) **2004k:68131**
Bollobás, Béla (*with* Coppersmith, Don; Elkin, Michael) Sparse distance preservers and additive spanners (extended abstract). (English summary) (*see* **2004a:68002**)
Bolyak, R. I. (*with* Lozin, Vadim V.) Independent domination in finitely defined classes of graphs. (English summary) **2004c:68107**
Bongartz, Dirk *see* **Böckenhauer, Hans-Joachim et al.**, (**2004j:68011**)
Bonichon, Nicolas (*with* Le Saëc, Bertrand; Mosbah, Mohamed) Optimal area algorithm for planar polyline drawings. (English summary)
Brandenburg, Franz-Josef Cycles in generalized networks. (English summary)
— *see also* **Bachl, Sabine**
Brandstädt, Andreas (*with* Dragan, Feodor F.; Le, Hoàng-Oanh; Mosca, Raffaele) New graph classes of bounded clique-width. (English summary)
— (*with* Le, Hoàng-Oanh; Vanherpe, Jean-Marie) Structure and stability number of chair-, co-P- and gem-free graphs revisited. (English summary) **2004b:68122**
Bridgeman, Stina (*with* Tamassia, Roberto) Difference metrics for interactive orthogonal graph drawing algorithms. (English summary) **2004g:68128**
Broersma, H. J. (*with* Fomin, Fedor V.; Kratochvíl, Jan; Woeginger, Gerhard J.) Planar graph coloring with forbidden subgraphs: why trees and paths are dangerous. (English summary)
Buchheim, Christoph (*with* Jünger, Michael; Leipert, Sebastian) Improving Walker's algorithm to run in linear time. (English summary)
Butenko, Sergiy *see* **Boginski, Vladimir et al.**, **2004j:68141**
Cai, Jin-Yi Essentially every unimodular matrix defines an expander. (English summary) **2004a:68114**
Cai, Yan Guang (*with* Zhang, Xin Zheng; Qian, Ji Xin; Sun, You Xian) An $O(n)$ algorithm for ω-path partition of edge-weighted forests. (Chinese. English and Chinese summaries) **2004d:68110**
Capalbo, M. *see* **Alon, Noga**, (**2004a:68002**)
Caragiannis, Ioannis (*with* Ferreira, Afonso Galvao; Kaklamanis, Christos; Pérennès, Stéphane; Rivano, Hervé) Fractional path coloring with applications to WDM networks. (English summary)
Carmel, Liran (*with* Harel, David; Koren, Yehuda) Drawing directed graphs using one-dimensional optimization. (English summary)
Caucal, Didier (*with* Knapik, Teodor) A Chomsky-like hierarchy of infinite graphs. (English summary)
Chanda, Amrita (*with* Garg, Ashim) Compact encodings of planar orthogonal drawings. (English summary)
Chen, Chiuyuan (*with* Hwang, Frank K.; Lee, Ju-Si; Shih, Sun-Jen) The existence of hyper-L triple-loop networks. (English summary) **2004e:68078**
Chen, Chun-Hua[2] *see* **Hsieh, Sun-Yuan**, **2004m:68193**
Chen, Ho-Lin (*with* Liao, Chien-Chih; Lu, Hsueh-I; Yen, Hsu-Chun) Some applications of orderly spanning trees in graph drawing. (English summary)
Chen, Y-Chuang (*with* Tsai, Chang-Hsiung; Hsu, Lih-Hsing; Tan, Jimmy J. M.) On some super fault-tolerant Hamiltonian graphs. (English summary) **2004h:68104**
Chen, Yen Hung (*with* Lu, Chin Lung; Tang, Chuan Yi) On the full and bottleneck full Steiner tree problems. (English summary)
Cheng, Eddie (*with* Lipman, Marc J.) On fault-tolerant routing in (n, k)-star graphs. (English summary) **2004d:68111**
Cheng, Maggie Xiaoyan (*with* Du, Xiu-feng; Min, Manki; Ngo, Hung Q.; Ruan, Lu; Sun, Jianhua; Wu, Weili) Super link-connectivity of iterated line digraphs. (English summary) **2004d:68112**
Chepoi, Victor D. (*with* Dragan, Feodor F.; Yan, Chenyu) Additive spanners for k-chordal graphs. (English summary) (*see* **2004j:68002**)
Cicerone, Serafino (*with* Di Stefano, Gabriele; Frigioni, Daniele; Nanni, Umberto) A fully dynamic algorithm for distributed shortest paths. (English summary) **2004d:68113**
Colcombet, Thomas On families of graphs having a decidable first order theory with reachability. (English summary)
Coppersmith, Don *see* **Bollobás, Béla et al.**, (**2004a:68002**)
Cornelsen, Sabine (*with* Schank, Thomas; Wagner, Dorothea) Drawing graphs on two and three lines. (English summary)
Corteel, Sylvie (*with* Valencia-Pabon, Mario; Gardy, Danièle; Barth, Dominique; Denise, Alain) The permutation-path coloring problem on trees. (English summary) **2004d:68114**
Courcelle, Bruno Clique-width of countable graphs: a compactness property. (English summary) **2004m:68190**
Cournier, Alain Search in indecomposable graphs. (English summary)
Curran, Sean (*with* Lee, Orlando; Yu, Xingxing) Chain decompositions and independent trees in 4-connected graphs. (English summary) (*see* **2004a:68002**)
Czumaj, Artur (*with* Sohler, Christian) Testing hypergraph coloring. (English summary)
Dahlhaus, Elias (*with* Dankelmann, Peter; Ravi, Ramamoorthi) A linear-time algorithm to compute a MAD tree of an interval graph. (English summary) **2004j:68142**
Damaschke, Peter *see* **Agnarsson, Geir et al.**
Dankelmann, Peter *see* **Dahlhaus, Elias et al.**, **2004j:68142**
Deng, Xiao-Tie (*with* Li, Guo Jun[1]; Zang, Wenan; Zhou, Yi) A 2-approximation algorithm for path coloring on a restricted class of trees of rings. (English summary) **2004b:68123**
Denise, Alain *see* **Corteel, Sylvie et al.**, **2004d:68114**
Deo, Narsingh (*with* Gupta, Pankaj[2]) Graph-theoretic analysis of the world wide web: new directions and challenges. (English summary)
Desmedt, Yvo (*with* Wang, Yong Ge[1]) Maximum flows and critical vertices in AND/OR graphs (extended abstract). (English summary)
Di Battista, Giuseppe (*with* Patrignani, Maurizio; Vargiu, Francesco) A split&push approach to 3D orthogonal drawing. (English summary) **2004f:68113**
Didimo, Walter *see* **Binucci, Carla et al.** *and* **Di Giacomo, Emilio et al.**
Diehl, Stephan (*with* Görg, Carsten) Graphs, they are changing. Dynamic graph drawing for a sequence of graphs. (English summary)
Di Giacomo, Emilio (*with* Liotta, Giuseppe; Patrignani, Maurizio) Orthogonal 3D shapes of theta graphs. (English summary)
— (*with* Didimo, Walter; Liotta, Giuseppe; Wismath, Stephen K.) Book embeddings and point-set embeddings of series-parallel digraphs. (English summary)
Di Stefano, Gabriele *see* **Cicerone, Serafino et al.**, **2004d:68113**
Dourisboure, Yon An additive stretched routing scheme for chordal graphs. (English summary)
Dragan, Feodor F. *see* **Chepoi, Victor D. et al.**, (**2004j:68002**) *and* **Brandstädt, Andreas et al.**
Drechsler, Rolf *see* **Eschbach, Thomas et al.**
Du, Xiu-feng *see* **Cheng, Maggie Xiaoyan et al.**, **2004d:68112**
Dujmović, Vida (*with* Morin, Pat; Wood, David R.) Path-width and three-dimensional straight-line grid drawings of graphs. (English summary)
— (*with* Whitesides, Sue H.) An efficient fixed parameter tractable algorithm for 1-sided crossing minimization. (English summary)
Duncan, Christian A. (*with* Goodrich, Michael T.; Kobourov, Stephen G.) Balanced aspect ratio trees and their use for drawing large graphs. (English summary) **2004f:68114**
Eades, Peter *see* **Friedrich, Carsten**, **2004f:68116** *and* **Hong, Seok-Hee**, **2004f:68119**
Ehrig, Hartmut *see* **Heckel, Reiko et al.**, **2004c:68108**
van den Eijkhof, Frank (*with* Bodlaender, Hans L.) Safe reduction rules for weighted treewidth. (English summary)

Eiter, Thomas (*with* Gottlob, Georg) Hypergraph transversal computation and related problems in logic and AI. (English summary) (*see* **2004j:68015**)
Elkin, Michael *see* **Bollobás, Béla et al.**, (**2004a:68002**)
Ellis-Monaghan, Joanna A. (*with* Gutwin, Paul) Graph theoretical problems in next-generation chip design. (English summary)
Elsässer, Robert (*with* Lücking, Thomas; Monien, Burkhard) On spectral bounds for the k-partitioning of graphs. (English summary) **2004f:68115**
El-Sayed, Mohamed Abdel-Halim *see* **Radwan, Ahmed A. A.**, **2004d:68122**
Eschbach, Thomas (*with* Günther, Wolfgang; Drechsler, Rolf; Becker, Bernd) Crossing reduction by windows optimization. (English summary)
Eschen, Elaine M. (*with* Johnson, Julie L.; Spinrad, Jeremy P.; Sritharan, R.) Recognition of some perfectly orderable graph classes. (English summary) **2004d:68115**
Even, Guy (*with* Guha, Sudipto; Schieber, Baruch) Improved approximations of crossings in graph drawings and VLSI layout areas. (English summary) **2004g:68129**
Fabrikant, Alex (*with* Koutsoupias, Elias; Papadimitriou, Christos H.) Heuristically optimized trade-offs: a new paradigm for power laws in the internet. (English summary)
Farley, Arthur M. *see* **Fujita, Satoshi**, **2004d:68117**
Feder, Tomás (*with* Motwani, Rajeev; Subi, Carlos) Approximating the longest cycle problem in sparse graphs. (English summary) **2004g:68130**
Feige, Uriel (*with* Yahalom, Orly) On the complexity of finding balanced oneway cuts. (English summary) **2004d:68116**
Fernau, Henning *see* **Alber, Jochen et al.**, **2004m:68188**
Ferreira, Afonso Galvao *see* **Caragiannis, Ioannis et al.**
Fischer, Eldar (*with* Makowsky, Johann A.) The Specker-Blatter theorem revisited. (English summary)
Flocchini, Paola (*with* Královič, Rastislav; Ružička, Peter; Roncato, Alessandro; Santoro, Nicola) On time versus size for monotone dynamic monopolies in regular topologies. (English summary) **2004m:68191**
Fomin, Fedor V. *see* **Broersma, H. J. et al.** *and* **Bodlaender, Hans L.**
Forster, Michael Applying crossing reduction strategies to layered compound graphs. (English summary)
Fotakis, Dimitris A. (*with* Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) Radiocolorings in periodic planar graphs: PSPACE-completeness and efficient approximations for the optimal range of frequencies. (English summary)
— *see also* **Andreou, Maria I. et al.**
Frieder, Ophir *see* **Alzoubi, Khaled M. et al.**, **2004c:68105** *and* **Wang, Yu[3] et al.**, **2004d:68126**
Friedrich, Carsten (*with* Eades, Peter) Graph drawing in motion. (English summary) **2004f:68116**
Frieze, Alan *see* **Bohman, Tom**, **2004d:68109**
Frigioni, Daniele *see* **Cicerone, Serafino et al.**, **2004d:68113**
Fujita, Satoshi (*with* Farley, Arthur M.) Sparse hypercube—a minimal k-line broadcast graph. (English summary) **2004d:68117**
Fürer, Martin Weisfeiler-Lehman refinement requires at least a linear number of iterations. (English summary)
Gabow, Harold N. (*with* Skulrattanakulchai, San) Coloring algorithms on subcubic graphs. (English summary)
Galluccio, Anna (*with* Proietti, Guido) Polynomial time algorithms for 2-edge-connectivity augmentation problems. (English summary) **2004d:68118**
Gardy, Danièle *see* **Corteel, Sylvie et al.**, **2004d:68114**
Garg, Ashim (*with* Rusu, Adrian) Straight-line drawings of binary trees with linear area and arbitrary aspect ratio (extended abstract). (English summary)
— (*with* Rusu, Adrian) Area-efficient order-preserving planar straight-line drawings of ordered trees. (English summary)
— (*with* Rusu, Adrian) Area-efficient order-preserving planar straight-line drawings of ordered trees. (English summary) **2004m:68192**
— *see also* **Chanda, Amrita**
Gašo, Ján (*with* Nehéz, Martin) Stochastic cooperative distributed grammar systems and random graphs. (English summary) **2004a:68115**
Gentilini, Raffaella (*with* Piazza, Carla; Policriti, Alberto) Computing strongly connected components in a linear number of symbolic steps. (English summary) (*see* **2004a:68002**)
Ghosh, Shubhashis *see* **Rahman, Md. Saidur et al.**
Goerdt, Andreas (*with* Molloy, Michael S. O.) Analysis of edge deletion processes on faulty random regular graphs. (English summary) **2004f:68117**
Goodrich, Michael T. *see* **Duncan, Christian A. et al.**, **2004f:68114**
Görg, Carsten *see* **Diehl, Stephan**
Gottlob, Georg *see* **Eiter, Thomas**, (**2004j:68015**)
Grolmusz, Vince A note on set systems with no union of cardinality 0 modulo m. (English summary) **2004d:68119**
Guha, Sudipto *see* **Even, Guy et al.**, **2004g:68129**
Günther, Wolfgang *see* **Eschbach, Thomas et al.**
Gupta, Anupam Improved results for directed multicut. (English summary) (*see* **2004a:68002**)
Gupta, Pankaj[2] *see* **Deo, Narsingh**
Gutwenger, Carsten (*with* Jünger, Michael; Leipert, Sebastian; Mutzel, Petra; Percan, Merijam; Weiskircher, René) Advances in C-planarity testing of clustered graphs (extended abstract). (English summary)
Gutwin, Paul *see* **Ellis-Monaghan, Joanna A.**
Hajiaghayi, Mohammad Taghi (*with* Nishimura, Naomi) Subgraph isomorphism, log-bounded fragmentation and graphs of (locally) bounded treewidth. (English summary)
Halldórsson, Magnús M. *see* **Agnarsson, Geir et al.**
Halperin, Eran (*with* Kortsarz, Guy; Krauthgamer, Robert; Srinivasan, Aravind; Wang, Nan[1]) Integrality ratio for group Steiner trees and directed Steiner trees. (English summary) (*see* **2004a:68002**)
Harel, David (*with* Koren, Yehuda) Graph drawing by high-dimensional embedding. (English summary)
— (*with* Koren, Yehuda) A fast multi-scale method for drawing large graphs. (English summary) **2004f:68118**
— *see also* **Carmel, Liran et al.** *and* **Koren, Yehuda**
Harris, Laura (*with* Hattingh, Johannes H.) The algorithmic complexity of certain functional variations of total domination in graphs. (English summary) **2004k:68132**
Hart, Thomas E. (*with* Harutyunyan, Hovhannes A.) Improved messy broadcasting in hypercubes and complete bipartite graphs. (English summary) **2004e:68079**
Harutyunyan, Hovhannes A. *see* **Hart, Thomas E.**, **2004e:68079**
Hasan, Masud (*with* Rahman, Md. Saidur; Nishizeki, Takao) A linear algorithm for compact box-drawings of trees. (English summary)
Hattingh, Johannes H. *see* **Harris, Laura**, **2004k:68132**
He, George (*with* Liu, Jiping; Zhao, Cheng) Approximation algorithms for some graph partitioning problems. (English summary) **2004g:68131**
Healy, Patrick (*with* Nikolov, Nikola S.) A branch-and-cut approach to the directed acyclic graph layering problem. (English summary)
— (*with* Nikolov, Nikola S.) Facets of the directed acyclic graph layering polytope. (English summary)
Heckel, Reiko (*with* Llabrés, Mercè; Ehrig, Hartmut; Orejas, Fernando) Concurrency and loose semantics of open graph transformation systems. (English summary) **2004c:68108**
Heggernes, Pinar *see* **Berry, Anne et al.**, **2004m:68189**
Hesselink, Wim H. Salembier's Min-tree algorithm turned into breadth first search. **2004i:68178**
Hicks, Illya V. Branchwidth heuristics. (English summary) **2004e:68080**
Hong, Seok-Hee (*with* Eades, Peter) Drawing trees symmetrically in three dimensions. (English summary) **2004f:68119**
— *see also* **Abelson, David et al.**
Hota, Mrinmoy (*with* Pal, Madhumangal; Pal, Tapan K.) Optimal sequential and parallel algorithms to compute all cut vertices on trapezoid graphs. (English summary) **2004j:68143**
Hromkovič, Juraj *see* **Böckenhauer, Hans-Joachim et al.**, (**2004j:68011**)
Hsieh, Sun-Yuan (*with* Chen, Chun-Hua[2]) Pancyclicity on Möbius cubes with maximal edge faults. (English summary) **2004m:68193**
Hsu, Lih-Hsing *see* **Li, Tseng-Kuei et al.**, **2004d:68120** *and* **Chen, Y-Chuang et al.**, **2004h:68104**
Husfeldt, Thore *see* **Björklund, Andreas**, **2004j:68140**
Hwang, Frank K. *see* **Chen, Chiuyuan et al.**, **2004e:68078**
Iridon, Mihaela (*with* Matula, David W.) A 6-regular torus graph family with applications to cellular and interconnection networks. (English summary) **2004g:68132**
Ito, Takehiro (*with* Nishizeki, Takao; Zhou, Xiao) Algorithms for the multicolorings of partial k-trees. (English summary)
Jain, Kamal (*with* Mahdian, Mohammad; Salavatipour, Mohammad R.) Packing Steiner trees. (English summary) (*see* **2004a:68002**)
Jansen, Klaus Approximate strong separation with application in fractional graph coloring and preemptive scheduling. (English summary) (*see* **2004j:68020**)
Johnson, Julie L. *see* **Eschen, Elaine M. et al.**, **2004d:68115**
Jothi, Raja (*with* Raghavachari, Balaji; Varadarajan, Subramanian) A 5/4-approximation algorithm for minimum 2-edge-connectivity. (English summary) (*see* **2004a:68002**)
Jünger, Michael *see* **Barth, Wilhelm et al.**; **Gutwenger, Carsten et al.** *and* **Buchheim, Christoph et al.**
Kaklamanis, Christos *see* **Caragiannis, Ioannis et al.**
Kakoulis, Konstantinos G. *see* **Six, Janet M. et al.**, **2004f:68121**
Karpinski, Marek Approximability of the minimum bisection problem: an algorithmic challenge. (English summary)
Karypis, George Multilevel hypergraph partitioning. (*see* **2004f:90010**)
Keil, J. Mark *see* **Spriggs, Michael J. et al.**, **2004k:68136**
Kikuchi, Yosuke (*with* Shibata, Yukio) On the independent set of de Bruijn graphs. (English summary) (*see* **2004h:00019**)
King, Valerie (*with* Sagert, Garry) A fully dynamic algorithm for maintaining the transitive closure. (English summary) **2004c:68109**
Klasing, Ralf *see* **Böckenhauer, Hans-Joachim et al.**, (**2004j:68011**)
Kloks, Ton (*with* Lee, Chuan-Min; Liu, Jiping) New algorithms for k-face cover, k-feedback vertex set, and k-disjoint cycles on plane and planar graphs. (English summary)
Knapik, Teodor *see* **Caucal, Didier**
Kobourov, Stephen G. *see* **Duncan, Christian A. et al.**, **2004f:68114**
Kohayakawa, Yoshiharu (*with* Nagle, Brendan; Rödl, Vojtěch) Efficient testing of hypergraphs (extended abstract). (English summary)
Koren, Yehuda (*with* Harel, David) A multi-scale algorithm for the linear arrangement problem. (English summary)
— On spectral graph drawing. (English summary)
— *see also* **Harel, David**, **2004f:68118** *and* **Carmel, Liran et al.**
Korenblit, Mark (*with* Levit, Vadim E.) On algebraic expressions of series-parallel and Fibonacci graphs. (English summary) (*see* **2004k:68004**)
Kortsarz, Guy *see* **Halperin, Eran et al.**, (**2004a:68002**)
Koucký, Michal Universal traversal sequences with backtracking. (English summary) **2004c:68110**
Koutsoupias, Elias *see* **Fabrikant, Alex et al.**
Královič, Rastislav *see* **Flocchini, Paola et al.**, **2004m:68191**
Kratochvíl, Jan *see* **Broersma, H. J. et al.**
Kratsch, Dieter (*with* McConnell, Ross M.; Mehlhorn, Kurt; Spinrad, Jeremy P.) Certifying algorithms for recognizing interval graphs and permutation graphs. (English summary) (*see* **2004a:68002**)
Krauthgamer, Robert *see* **Halperin, Eran et al.**, (**2004a:68002**)
Krész, Miklós *see* **Bartha, Miklós**, **2004j:68139**
Krumke, Sven Oliver (*with* Marathe, Madhav V.; Poensgen, Diana; Ravi, S. S.; Wirth, Hans-Christoph) Budgeted maximum graph coverage. (English summary)
— (*with* Poensgen, Diana) Online call admission in optical networks with larger demands. (English summary)
Kurowski, Maciej Simple and efficient floor-planning. (English summary) **2004b:68124**
Langerman, Stefan (*with* Morin, Pat; Soss, Michael) Computing the maximum detour and spanning ratio of planar paths, trees, and cycles. (English summary) **2004m:68194**
Le, Hoàng-Oanh *see* **Brandstädt, Andreas et al.**, **2004b:68122**
Lee, Chuan-Min *see* **Kloks, Ton et al.**
Lee, Ju-Si *see* **Chen, Chiuyuan et al.**, **2004e:68078**
Lee, Orlando *see* **Curran, Sean et al.**, (**2004a:68002**)
Lee, Richard Char Tung *see* **Lu, Chin Lung et al.**

Leipert, Sebastian *see* **Gutwenger, Carsten et al.** *and* **Buchheim, Christoph et al.**
Le Saëc, Bertrand *see* **Bonichon, Nicolas et al.**
Levit, Vadim E. *see* **Korenblit, Mark**, (2004k:68004)
Li, Guo Jun[1] *see* **Deng, Xiao-Tie et al.**, 2004b:68123
Li, Tseng-Kuei (*with* Tsai, Chang-Hsiung; Tan, Jimmy J. M.; Hsu, Lih-Hsing) Bipan-connectivity and edge-fault-tolerant bipancyclicity of hypercubes. (English summary) **2004d:68120**
Li, Wei Sheng *see* **Wang, Tao**
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Liotta, Giuseppe *see* **Binucci, Carla et al.** *and* **Di Giacomo, Emilio et al.**
Lipman, Marc J. *see* **Cheng, Eddie**, 2004d:68111
Liu, Jiping *see* **He, George et al.**, 2004g:68131 *and* **Kloks, Ton et al.**
Llabrés, Mercè *see* **Heckel, Reiko et al.**, 2004c:68108
Lozin, Vadim V. *see* **Bolyak, R. I.**, 2004c:68107
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Lucena, Brian A new lower bound for tree-width using maximum cardinality search. (English summary) **2004g:68133**
Lücking, Thomas *see* **Elsässer, Robert et al.**, 2004f:68115
Mahdian, Mohammad *see* **Jain, Kamal et al.**, (2004a:68002)
Makowsky, Johann A. (*with* Mariño, J. P.) Tree-width and the monadic quantifier hierarchy. (English summary) **2004g:68134**
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Matula, David W. *see* **Iridon, Mihaela**, 2004g:68132
Mc Allister, Luisa Nicosia Fuzzy graphs and networks repairs. (English summary)
McConnell, Ross M. *see* **Kratsch, Dieter et al.**, (2004a:68002)
Megson, Graham M. *see* **Yang, Xiao-Fan**
Mehlhorn, Kurt *see* **Kratsch, Dieter et al.**, (2004a:68002)
Meyer, Ulrich[2] Average-case complexity of single-source shortest-paths algorithms: lower and upper bounds. (English summary) **2004h:68105**
Mezzini, M. *see* **Malvestuto, F. M.**, 2004e:68081
Min, Manki *see* **Cheng, Maggie Xiaoyan et al.**, 2004d:68112
Miura, Kazuyuki (*with* Miyazawa, Ayako; Nishizeki, Takao) Extended rectangular drawings of plane graphs with designated corners (extended abstract). (English summary)
Miyazawa, Ayako *see* **Miura, Kazuyuki et al.**
Molloy, Michael S. O. *see* **Goerdt, Andreas**, 2004f:68117
Monien, Burkhard *see* **Elsässer, Robert et al.**, 2004f:68115
Morin, Pat *see* **Langerman, Stefan et al.**, 2004m:68194 *and* **Dujmović, Vida et al.**
Mosbah, Mohamed *see* **Bonichon, Nicolas et al.**
Mosca, Raffaele *see* **Brandstädt, Andreas et al.**
Motwani, Rajeev *see* **Feder, Tomás et al.**, 2004g:68130
Mutzel, Petra *see* **Barth, Wilhelm et al.** *and* **Gutwenger, Carsten et al.**
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Naidu, K. V. M. (*with* Ramesh, H.) Lower bounds for embedding graphs into graphs of smaller characteristic. (English summary) **2004k:68133**
Nakano, Shin-ichi Efficient generation of triconnected plane triangulations. (English summary) **2004k:68134**
Nanni, Umberto *see* **Cicerone, Serafino et al.**, 2004d:68113
Nardelli, Enrico (*with* Proietti, Guido; Widmayer, Peter) Finding the most vital node of a shortest path. (English summary) **2004a:68116**
Nehéz, Martin *see* **Gašo, Ján**, 2004a:68115
Newton, Matthew (*with* Sýkora, Ondrej; Vrťo, Imrich) Two new heuristics for two-sided bipartite graph drawing. (English summary)
Ngo, Hung Q. *see* **Cheng, Maggie Xiaoyan et al.**, 2004d:68112
Niedermeier, Rolf (*with* Rossmanith, Peter) On efficient fixed-parameter algorithms for weighted vertex cover. (English summary) **2004d:68121**
— *see also* **Alber, Jochen et al.**, 2004m:68188
Nikoletseas, Sotiris E. (*with* Spirakis, Paul G.) Randomized techniques for modelling faults and achieving robust computing. (English summary) **2004a:68117**
— *see also* **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**
Nikolov, Nikola S. *see* **Healy, Patrick**
Nishimura, Naomi *see* **Hajiaghayi, Mohammad Taghi**
Nishizeki, Takao *see* **Hasan, Masud et al.**; **Rahman, Md. Saidur et al.**; **Miura, Kazuyuki et al.** *and* **Ito, Takehiro et al.**
Nonato, Maddalena *see* **Binucci, Carla et al.**
Okun, Michael (*with* Barak, Amnon) A new approach for approximating node deletion problems. (English summary) **2004h:68106**
Orejas, Fernando *see* **Heckel, Reiko et al.**, 2004c:68108
Pal, Madhumangal *see* **Hota, Mrinmoy et al.**, 2004j:68143 *and* **Saha, Anita**, 2004k:68135
Pal, Tapan K. *see* **Hota, Mrinmoy et al.**, 2004j:68143
Papadimitriou, Christos H. *see* **Fabrikant, Alex et al.**
Papadopoulou, Vicky G. *see* **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**
Pardalos, Panos M. *see* **Boginski, Vladimir et al.**, 2004j:68141
Patrignani, Maurizio *see* **Di Battista, Giuseppe et al.**, 2004f:68113 *and* **Di Giacomo, Emilio et al.**
Peleg, David Low stretch spanning trees. (English summary)
Percan, Merijam *see* **Gutwenger, Carsten et al.**
Pérennès, Stéphane *see* **Caragiannis, Ioannis et al.**
Pettie, Seth A faster all-pairs shortest path algorithm for real-weighted sparse graphs. (English summary)
Peyton, Barry W. *see* **Berry, Anne et al.**, 2004m:68189
Piazza, Carla *see* **Gentilini, Raffaella et al.**, (2004a:68002)
Poensgen, Diana *see* **Krumke, Sven Oliver et al.**
Policriti, Alberto *see* **Gentilini, Raffaella et al.**, (2004a:68002)
Priesler, Miri (*with* Tarsi, Michael) On some multigraph decomposition problems and their computational complexity. (English summary) **2004m:68195**
Proietti, Guido *see* **Nardelli, Enrico et al.**, 2004a:68116; **Galluccio, Anna**, 2004d:68118 *and* **Böckenhauer, Hans-Joachim et al.**, (2004j:68011)
Qian, Ji Xin *see* **Cai, Yan Guang et al.**, 2004d:68110
Radwan, Ahmed A. A. (*with* El-Sayed, Mohamed Abdel-Halim) New algorithm for drawing planar straight-line graphs. (English summary) **2004d:68122**
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Raghavachari, Balaji *see* **Jothi, Raja et al.**, (2004a:68002)
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Ramesh, H. *see* **Naidu, K. V. M.**, 2004k:68133
Rauhe, Theis *see* **Alstrup, Stephen et al.**, (2004a:68002)
Ravi, Ramamoorthi *see* **Dahlhaus, Elias et al.**, 2004j:68142
Ravi, S. S. *see* **Krumke, Sven Oliver et al.**
Rivano, Hervé *see* **Caragiannis, Ioannis et al.**
Rizzi, Romeo On Rajagopalan and Vazirani's $\frac{3}{2}$-approximation bound for the iterated 1-Steiner heuristic. (English summary) **2004f:68120**
Roditty, Liam A faster and simpler fully dynamic transitive closure. (English summary) (*see* **2004a:68002**)
Rödl, Vojtěch *see* **Kohayakawa, Yoshiharu et al.**
Roncato, Alessandro *see* **Flocchini, Paola et al.**, 2004m:68191
Rossmanith, Peter *see* **Niedermeier, Rolf**, 2004d:68121
Rothe, Jörg Exact complexity of exact-four-colorability. (English summary) **2004d:68123**
Rotics, Udi *see* **Bodlaender, Hans L.**, 2004c:68106
Ruan, Lu *see* **Cheng, Maggie Xiaoyan et al.**, 2004d:68112
Rusu, Adrian *see* **Garg, Ashim**, 2004m:68192
Ružička, Peter *see* **Flocchini, Paola et al.**, 2004m:68191
Saab, Youssef A contraction-based ratio-cut partitioning algorithm. (English summary) **2004c:68111**
Sagert, Garry *see* **King, Valerie**, 2004c:68109
Saha, Anita (*with* Pal, Madhumangal) Maximum weight k-independent set problem on permutation graphs. (English summary) **2004k:68135**
Salavatipour, Mohammad R. *see* **Jain, Kamal et al.**, (2004a:68002)
Santoro, Nicola *see* **Flocchini, Paola et al.**, 2004m:68191
Schank, Thomas *see* **Cornelsen, Sabine et al.**
Schieber, Baruch *see* **Even, Guy et al.**, 2004g:68129
Segal, Michael *see* **Spriggs, Michael J. et al.**, 2004k:68136
Seibert, Sebastian *see* **Böckenhauer, Hans-Joachim et al.**, (2004j:68011)
Shamir, Ron (*with* Sharan, Roded; Tsur, Dekel) Cluster graph modification problems. (English summary)
Sharan, Roded *see* **Shamir, Ron et al.**
Shibata, Yukio *see* **Kikuchi, Yosuke**, (2004h:00019)
Shih, Sun-Jen *see* **Chen, Chiuyuan et al.**, 2004e:68078
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Skodinis, Konstantin Construction of linear tree-layouts which are optimal with respect to vertex separation in linear time. (English summary) **2004d:68124**
Skulrattanakulchai, San *see* **Gabow, Harold N.**
Snoeyink, Jack *see* **Spriggs, Michael J. et al.**, 2004k:68136
Sohler, Christian *see* **Czumaj, Artur**
Soss, Michael *see* **Langerman, Stefan et al.**, 2004m:68194
Spinrad, Jeremy P. *see* **Eschen, Elaine M. et al.**, 2004d:68115 *and* **Kratsch, Dieter et al.**, (2004a:68002)
Spirakis, Paul G. *see* **Nikoletseas, Sotiris E.**, 2004a:68117; **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**
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Srinivasan, Aravind *see* **Halperin, Eran et al.**, (2004a:68002)
Sritharan, R. *see* **Eschen, Elaine M. et al.**, 2004d:68115
Subi, Carlos *see* **Feder, Tomás et al.**, 2004g:68130
Sudborough, I. Hal *see* **Bass, Douglas W.**, 2004e:68077
Sun, Jianhua *see* **Cheng, Maggie Xiaoyan et al.**, 2004d:68112
Sun, You Xian *see* **Cai, Yan Guang et al.**, 2004d:68110
Sýkora, Ondrej (*with* Székely, László A.; Vrťo, Imrich) Fractional lengths and crossing numbers. (English summary)
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Székely, László A. *see* **Sýkora, Ondrej et al.**
Tamassia, Roberto *see* **Bridgeman, Stina**, 2004g:68128
Tan, Jimmy J. M. *see* **Li, Tseng-Kuei et al.**, 2004d:68120 *and* **Chen, Y-Chuang et al.**, 2004h:68104
Tang, Chuan Yi *see* **Chen, Yen Hung et al.** *and* **Lu, Chin Lung et al.**
Tarsi, Michael *see* **Priesler, Miri**, 2004m:68195
Taylor, Donald E. *see* **Abelson, David et al.**

Thorup, Mikkel Quick k-median, k-center, and facility location for sparse graphs. (English summary)
Tollis, Ioannis G. *see* **Six, Janet M. et al., 2004f:68121**
Tsai, Chang-Hsiung *see* **Li, Tseng-Kuei et al., 2004d:68120** *and* **Chen, Y-Chuang et al., 2004h:68104**
Tsur, Dekel *see* **Shamir, Ron et al.**
Tuza, Zsolt (*with* Voloshin, V. I.) Linear-time algorithm for the edge-colorability of a graph with prescribed vertex types. (English summary) **2004d:68125**
Unger, Walter *see* **Böckenhauer, Hans-Joachim et al., (2004j:68011)**
Valencia-Pabon, Mario *see* **Corteel, Sylvie et al., 2004d:68114**
Vanherpe, Jean-Marie *see* **Brandstädt, Andreas et al., 2004b:68122**
Varadarajan, Subramanian *see* **Jothi, Raja et al., (2004a:68002)**
Vargiu, Francesco *see* **Di Battista, Giuseppe et al., 2004f:68113**
Vigna, Sebastiano *see* **Boldi, Paolo, 2004k:68131**
Voloshin, V. I. *see* **Tuza, Zsolt, 2004d:68125**
Vrt'o, Imrich *see* **Sýkora, Ondrej et al.** *and* **Newton, Matthew et al.**
Wagner, Dorothea *see* **Cornelsen, Sabine et al.**
Wan, Peng-Jun *see* **Alzoubi, Khaled M. et al., 2004c:68105**
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Weiskircher, René *see* **Gutwenger, Carsten et al.**
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Widmayer, Peter *see* **Nardelli, Enrico et al., 2004a:68116**
Wirth, Hans-Christoph *see* **Krumke, Sven Oliver et al.**
Wismath, Stephen K. *see* **Di Giacomo, Emilio et al.**
Woeginger, Gerhard J. *see* **Broersma, H. J. et al.**
Wood, David R. Queue layouts, tree-width, and three-dimensional graph drawing. (English summary) **2004k:68137**
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Wu, Weili *see* **Cheng, Maggie Xiaoyan et al., 2004d:68112**
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Yahalom, Orly *see* **Feige, Uriel, 2004d:68116**
Yan, Chenyu *see* **Chepoi, Victor D. et al., (2004j:68002)**
Yang, Xiao-Fan (*with* Megson, Graham M.) On the double-vertex-cycle-connectivity of crossed cubes. (English summary)
Yen, Hsu-Chun *see* **Chen, Ho-Lin et al.**
Yu, Xingxing *see* **Curran, Sean et al., (2004a:68002)**
Zang, Wenan *see* **Deng, Xiao-Tie et al., 2004b:68123**
Zhang, Xin Zheng *see* **Cai, Yan Guang et al., 2004d:68110**
Zhao, Cheng *see* **He, George et al., 2004g:68131**
Zhou, Xiao *see* **Ito, Takehiro et al.**
Zhou, Yi *see* **Deng, Xiao-Tie et al., 2004b:68123**

Items with secondary classifications in 68R10

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Acevedo, R. *see* **Solomon, Andrew Israel et al., 2004e:90144**
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Akl, Selim G. *see* **Nagy, Naya, 2004e:68119**
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Allder, Jo-Anne *see* **Purchase, Helen C. et al.**
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Alzoubi, Khaled M. *see* **Wan, Peng-Jun et al., 2004b:05195**
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Averbakh, Igor (*with* Lebedev, V. N.) Interval data minmax regret network optimization problems. (English summary) **2004m:90165**
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— *see also* **Solomon, Andrew Israel et al., 2004e:90144**
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Beth, Thomas *see* **Wocjan, Pawel et al.**
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Blelloch, Guy E. *see* **Blandford, Daniel K. et al., (2004a:68002)**
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Blumensath, Achim Axiomatising tree-interpretable structures. (English summary) **2004m:03115**
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— Necessary edges in k-chordalisations of graphs. (English summary) **2004m:05250**
Boldi, Paolo (*with* Vigna, Sebastiano) Holographic trees. (English summary) **2004a:68006**
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Bond, J. *see* **Bermond, Jean-Claude et al., 2004f:05128**
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Bouchitté, Vincent (*with* Todinca, Ioan) Approximating the treewidth of AT-free graphs. (English summary) **2004i:05149**
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Brandstädt, Andreas (*with* Hoàng, Chính T.; Le, Van Bang) Stability number of bull- and chair-free graphs revisited. (English summary) **2004j:05114**
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Branke, Jürgen Dynamic graph drawing. (*see* **2004b:05003**)
Bridgeman, Stina (*with* Tamassia, Roberto) A user study in similarity measures for graph drawing. (English summary)
Brimberg, Jack *see* **Urošević, Dragan et al., 2004m:90190**
Brinkmann, Gunnar (*with* McKay, Brendan D.; von Nathusius, Ulrike) Backtrack search and look-ahead for the construction of planar cubic graphs with restricted face sizes. (English summary) **2004f:05169**
Brockenauer, Ralf (*with* Cornelsen, Sabine) Drawing clusters and hierarchies. (*see* **2004b:05003**)
Bruck, Jehoshua *see* **Jiang, Anxiao**
Bruckstein, Alfred M. *see* **Yanovski, Vladimir et al., 2004f:05180**
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Chang, Gerard J. *see* **Liao, Chung-Shou, 2004c:05143**

Chang, Jou-Ming Induced matchings in asteroidal triple-free graphs. (English summary) **2004m:05203**

— *see also* **Wang, Fu-Hsing et al., 2004j:05121**

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Chen, Zhi-Zhong (*with* He, Xin[1]; Kao, Ming-Yang) Common-face embeddings of planar graphs. (English summary) **2004b:05189**

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Cheriyan, Joseph (*with* Vempala, Santosh; Vetta, Adrian) An approximation algorithm for the minimum-cost k-vertex connected subgraph. (English summary) **2004g:68196**

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Chow, Stirling *see* **Ellis, John A. et al., 2004d:05058**

Chung, Fan *see* **Aiello, William et al., 2004c:05180**

Ciupală, Laura *see* **Ciurea, Eleonor, 2004m:90010**

Ciurea, Eleonor (*with* Ciupală, Laura) Sequential and parallel algorithms for minimum flows. (English summary) **2004m:90010**

Cohen, Edith (*with* Halperin, Eran; Kaplan, Haim; Zwick, Uri) Reachability and distance queries via 2-hop labels. (English summary) **2004g:68207**

Coja-Oghlan, Amin Coloring k-colorable semirandom graphs in polynomial expected time via semidefinite programming. (English summary)

Colbourn, Charles J. (*with* Ling, Alan C. H.) Graph decompositions with application to wavelength add-drop multiplexing for minimizing SONET ADMs. (English summary) **2004a:68005**

Coll, Pablo (*with* Marenco, Javier; Méndez Díaz, Isabel; Zabala, Paula) Facets of the graph coloring polytope. (English summary) **2004g:05057**

Comellas, Francesc (*with* Fiol, Miguel A.; Gimbert, Joan; Mitjana, Margarida) The spectra of wrapped butterfly digraphs. (English summary) **2004e:05114**

— (*with* Hell, Pavol) Broadcasting in generalized chordal rings. (English summary) **2004j:90021**

Conforti, Michele (*with* Cornuéjols, Gérard; Kapoor, Ajai; Vušković, Kristina) Even-hole-free graphs. II. Recognition algorithm. (English summary) **2004e:05182**

— (*with* Hassin, Refael; Ravi, Ramamoorthi) Reconstructing edge-disjoint paths. (English summary) **2004e:05183**

Cook, William (*with* Seymour, P. D.) Tour merging via branch-decomposition. (English summary) **2004f:90152**

Cooper, Colin (*with* Frieze, Alan) A general model of web graphs. (English summary) **2004b:05185**

Coppersmith, Don (*with* Gamarnik, David; Sviridenko, M. I.) The diameter of a long-range percolation graph. (English summary) **2004f:82029**

Corbacho, Fernando *see* **Aguirre, Carlos et al., 2004a:68003**

Cori, Robert (*with* Schaeffer, Gilles) Description trees and Tutte formulas. (English summary) **2004b:05104**

Corneil, Derek G. (*with* Dragan, Feodor F.; Köhler, Ekkehard) On the power of BFS to determine a graph's diameter. (English summary) **2004i:05150**

Cornelsen, Sabine *see* **Brockenauer, Ralf, (2004b:05003)**

Cornuéjols, Gérard *see* **Conforti, Michele et al., 2004e:05182**

Corradini, Andrea *see* **Baldan, Paolo et al., (2004j:00032)**

Coudert, David *see* **Bermond, Jean-Claude et al., 2004d:05150**

Courcelle, Bruno The monadic second-order logic of graphs. XIV. Uniformly sparse graphs and edge set quantifications. (English summary) **2004i:03064**

Cowan, Richard A mosaic of triangular cells formed with sequential splitting rules. (English summary)

Crown, Gary D. (*with* Janowitz, Melvin F.) An injective set representation of closed systems of sets. (English summary) **2004f:05121**

Daescu, Ovidiu *see* **Atallah, Mikhail J. et al., 2004d:68175**

Dantas, Simone (*with* de Figueiredo, Celina M. H.; Faria, Luerbio) On the complexity of (k, l)-graph sandwich problems. (English summary)

Das, Nabanita *see* **Ghosh, Sasthi C. et al.**

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Demange, Marc (*with* Paschos, Vangelis Th.) Algorithms and models for the on-line vertex-covering. (English summary)

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Demetrescu, Camil (*with* Finocchi, Irene) Break the "right" cycles and get the "best" drawing. (English summary) **2004m:68297**

— (*with* Italiano, Giuseppe F.) Improved bounds and new trade-offs for dynamic all pairs shortest paths. (English summary)

— (*with* Finocchi, Irene) Combinatorial algorithms for feedback problems in directed graphs. (English summary) **2004b:05190**

Deng, Xiao-Tie *see* **Cai, Mao Cheng et al., 2004k:05171**

Deo, Narsingh (*with* Micikevicius, Paulius) On one-factorization of complete 3-uniform hypergraphs. (English summary) **2004d:05151**

Dessmark, Anders (*with* Pelc, Andrzej) Distributed colouring and communication in rings with local knowledge. (English summary) **2004m:68004**

Dias, Vânia M. F. (*with* da Fonseca, Guilherme D.; de Figueiredo, Celina M. H.; Szwarcfiter, Jayme L.) The stable marriage problem with restricted pairs. (English summary) **2004g:05002**

Díaz, Josep (*with* Serna, Maria José; Thilikos, Dimitris M.) The complexity of restrictive H-coloring. (English summary)

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Dillencourt, Michael B. (*with* Eppstein, David; Hirschberg, Daniel S.) Geometric thickness of complete graphs. (English summary) **2004f:05044**

Dimova, B. *see* **Barnes, J. W. et al., 2004e:90143**

Djelloul, Selma (*with* Kouider, Mekkia) Minimum survivable graphs with bounded distance increase. (English summary) **2004g:05053**

Doerr, Benjamin Balanced coloring: equally easy for all numbers of colors? (English summary) **2004m:05181**

Dohmen, Klaus (*with* Pönitz, André; Tittmann, Peter) A new two-variable generalization of the chromatic polynomial. (English summary) **2004j:05053**

Doi, Takashi *see* **Fujito, Toshihiro, 2004m:68286**

Dokov, S. P. *see* **Barnes, J. W. et al., 2004e:90143** *and* **Solomon, Andrew Israel et al., 2004e:90144**

Donangelo, Raul *see* **Barbosa, Valmir C. et al., 2004f:82019**

Do Nascimento, Josina O. *see* **Barbosa, Valmir C. et al.**

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Doring, Valeria *see* **Hansen, Pierre et al., 2004j:62132**

Dougherty, Randall (*with* Faber, Vance) The degree-diameter problem for several varieties of Cayley graphs. I. The abelian case. (English summary) **2004m:05126**

Dragan, Feodor F. *see* **Brandstädt, Andreas et al., 2004h:05120** *and* **Corneil, Derek G. et al., 2004i:05150**

Du, Ding-Zhu *see* **Kang, Li Ying et al., 2004b:05151** *and* **Cheng, Xiuzhen et al., 2004j:68196**

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Duckworth, William *see* **Beis, Mihalis et al.**

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Dujmović, Vida (*with* Fellows, Michael R.; Hallett, Michael T.; et al.) A fixed-parameter approach to two-layer planarization. (English summary) **2004b:68065**

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Dyer, Martin E. (*with* Frieze, Alan) Randomly coloring graphs with lower bounds on girth and maximum degree. (English summary) **2004h:05047**

Eades, Peter *see* **Lin, Xuemin, 2004d:68166**

Easton, Todd *see* **Horton, S. B. et al., 2004g:05144**

Ehrgott, Matthias *see* **Blum, Christian**, **2004a:90099**
Eiglsperger, Markus (*with* Fekete, Sándor P.; Klau, Gunnar W.) Orthogonal graph drawing. (*see* **2004b:05003**)
Eisenbrand, Friedrich (*with* Funke, Stefan; Garg, Naveen; Könemann, Jochen) A combinatorial algorithm for computing a maximum independent set in a t-perfect graph. (English summary) (*see* **2004a:68002**)
— (*with* Grandoni, Fabrizio[2]) Detecting directed 4-cycles still faster. (English summary) **2004c:05185**
Eiter, Thomas (*with* Gottlob, Georg; Makino, Kazuhisa) New results on monotone dualization and generating hypergraph transversals. (English summary) **2004c:68051**
Elbassioni, Khaled M. *see* **Boros, Endre et al.**, **2004d:05134**
Elkin, Michael (*with* Kortsarz, Guy) Sublogarithmic approximation for telephone multicast: path out of jungle (extended abstract). (English summary) (*see* **2004a:68002**)
Ellis, John A. (*with* Fan, Hongbing; Fellows, Michael R.) The dominating set problem is fixed parameter tractable for graphs of bounded genus. (English summary)
— (*with* Chow, Stirling; Manke, Dennis) Many to one embeddings from grids into cylinders, tori, and hypercubes. (English summary) **2004d:05058**
Engel, Konrad (*with* Guttmann, Sven) Testing bandwidth k for k-connected graphs. (English summary) **2004b:05181**
Eppstein, David Separating thickness from geometric thickness. (English summary)
— Beta-skeletons have unbounded dilation. (English summary) **2004a:05045**
— Dynamic generators of topologically embedded graphs. (English summary) (*see* **2004a:68002**)
— *see also* **Dillencourt, Michael B. et al.**, **2004f:05044**
Erlebach, Thomas (*with* Jansen, Klaus) Implementation of approximation algorithms for weighted and unweighted edge-disjoint paths in bidirected trees. (English summary) **2004d:68183**
Ershov, N. M. A genetic algorithm for graph bisection. (Russian)
Eschen, Elaine M. (*with* Klostermeyer, William F.; Sritharan, R.) Planar domination graphs. (English summary) **2004d:05137**
Even, Guy (*with* Kortsarz, Guy; Slany, Wolfgang) On network design problems: fixed cost flows and the covering Steiner problem. (English summary)
Faber, Vance *see* **Dougherty, Randall**, **2004m:05126**
Fakcharoenphol, Jittat (*with* Harrelson, Chris; Rao, Satish; Talwar, Kunal) An improved approximation algorithm for the 0-extension problem. (English summary) (*see* **2004a:68002**)
Fan, Hongbing *see* **Ellis, John A. et al.**
Fang, Chen *see* **Li, Yuan[2] et al.**
Faria, Luerbio *see* **Dantas, Simone et al.**
Farrugia, Alastair *see* **Alekseev, Vladimir E. et al.**, **2004m:05093**
Feige, Uriel (*with* Krauthgamer, Robert) The probable value of the Lovász-Schrijver relaxations for maximum independent set. (English summary) **2004c:05137**
Fekete, Sándor P. (*with* Meijer, Henk) Maximum dispersion and geometric maximum weight cliques. (English summary) **2004m:68285**
— (*with* Schepers, Jörg) A combinatorial characterization of higher-dimensional orthogonal packing. (English summary)
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Fellows, Michael R. *see* **Dujmović, Vida et al.**, **2004b:68065**; **Alber, Jochen et al.** *and* **Ellis, John A. et al.**
Feremans, Corinne (*with* Labbé, Martine; Laporte, Gilbert) The generalized minimum spanning tree problem: polyhedral analysis and branch-and-cut algorithm. (English summary) **2004j:90134**
Fernandes, Cristina G. *see* **Călinescu, Gruia et al.**, **2004b:68186** *and* **2004f:68187**
Fernández, Antonio[1] *see* **Àlvarez, Carme et al.**, **2004m:68084**
Fernández-Baca, David (*with* Lagergren, Jens) A polynomial-time algorithm for near-perfect phylogeny. (English summary) **2004i:68080**
Fernau, Henning Graph separator algorithms: a refined analysis. (English summary)
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Ferraro, Pascal (*with* Godin, Christophe) Optimal mappings with minimum number of connected components in tree-to-tree comparison problems. (English summary) **2004f:68180**
Ferreira, Afonso Galvao *see* **Xuan, B. Bui et al.**, **2004c:68011**
Ferrero, Daniela (*with* Harary, Frank) Edge sums of de Bruijn interconnection networks. (English summary) **2004d:05174**
Fertin, Guillaume (*with* Raspaud, André) Recognizing recursive circulant graphs (extended abstract). (English summary) (*see* **2004a:05004**)
— (*with* Godard, Emmanuel; Raspaud, André) Acyclic and k-distance coloring of the grid. (English summary) **2004c:05069**
Fiala, Jiří (*with* Heggernes, Pinar; Kristiansen, Petter; Telle, Jan Arne) Generalized H-coloring and H-covering of trees. (English summary)
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Finocchi, Irene *see* **Demetrescu, Camil**, **2004b:05190** *and* **2004m:68297**
Fiol, Miguel A. *see* **Comellas, Francesc et al.**, **2004e:05114**
Fleischer, Lisa A 2-approximation for minimum cost $\{0, 1, 2\}$ vertex connectivity. (English summary) **2004m:90173**
— (*with* Skutella, Martin) Minimum cost flows over time without intermediate storage. (English summary) (*see* **2004a:68002**)
Fleischer, Rudolf (*with* Hirsch, Colin) Graph drawing and its applications. (*see* **2004b:05003**)
Flocchini, Paola (*with* Roncato, Alessandro; Santoro, Nicola) Backward consistency and sense of direction in advanced distributed systems. (English summary) **2004j:68188**
— (*with* Mans, Bernard; Santoro, Nicola) Sense of direction in distributed computing. (English summary) **2004b:68008**
— (*with* Luccio, Flaminia L.) Routing in series parallel networks. (English summary) **2004f:68002**
Fomin, Fedor V. (*with* Matamala, Martín; Rapaport, Ivan) The complexity of approximating the oriented diameter of chordal graphs. (English summary)
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— (*with* Kratsch, Dieter; Müller, Haiko) On the domination search number. (English summary) **2004f:05137**
— (*with* Golovach, Petr A.) Interval degree and bandwidth of a graph. (English summary) **2004e:05167**
da Fonseca, Guilherme D. *see* **Dias, Vânia M. F. et al.**, **2004g:05002**
Fontes, Luiz Renato (*with* Machado, Fabio P.; Sarkar, Anish) The critical probability for the frog model is not a monotonic function of the graph. (English summary) **2004m:60221**
Fournier, J. C. Combinatorics of perfect matchings in plane bipartite graphs and application to tilings. (English summary) **2004d:05152**
de Frayssеix, Hubert (*with* Ossona de Mendez, Patrice) A characterization of DFS cotree critical graphs. (English summary) **2004a:05151**
Frick, Markus Generalized model-checking over locally tree-decomposable classes. (English summary) **2004m:68157**
Frieder, Ophir *see* **Wan, Peng-Jun et al.**, **2004b:05195**
Friedman, Joel Relative expanders or weakly relatively Ramanujan graphs. (English summary) **2004m:05165**
Frieze, Alan *see* **Cooper, Colin**, **2004b:05185** *and* **Dyer, Martin E.**, **2004h:05047**
Frigioni, Daniele (*with* Marchetti-Spaccamela, Alberto; Nanni, Umberto) Fully dynamic shortest paths in digraphs with arbitrary arc weights. (English summary) **2004j:05116**
Fuchs, Bernhard A note on the terminal Steiner tree problem. (English summary) **2004g:68198**
Fujito, Toshihiro (*with* Doi, Takashi) A 2-approximation NC algorithm for connected vertex cover and tree cover. (English summary) **2004m:68286**
Funke, Stefan *see* **Eisenbrand, Friedrich et al.**, (**2004a:68002**)
Gabow, Harold N. Better performance bounds for finding the smallest k-edge connected spanning subgraph of a multigraph. (English summary) (*see* **2004a:68002**)
Gaibisso, Carlo (*with* Proietti, Guido; Tan, Richard B.) Optimal MST maintenance for transient deletion of every node in planar graphs. (English summary)
Gajer, Pawel (*with* Kobourov, Stephen G.) GRIP: Graph drawing with intelligent placement. (English summary) **2004f:68165**
Gamarnik, David *see* **Coppersmith, Don et al.**, **2004f:82029**
Gandhi, Rajiv (*with* Khuller, Samir; Srinivasan, Aravind) Approximation algorithms for partial covering problems (extended abstract). (English summary)
Ganjali, Yashar Optimum multi-dimensional interval routing schemes on networks with dynamic cost links. (English summary) **2004g:68004**
Gao, Sui Xiang (*with* Yang, De Zhuang) Spanning trees and broadcasting in extended de Bruijn digraphs. (Chinese. English and Chinese summaries) **2004f:05072**
Gararch, William (*with* Golub, Evan; Kruskal, Clyde) Constant time parallel sorting: an empirical view. (English summary) **2004j:68048**
Garcia, Ricardo (*with* Lizarralde, Francisco; Verástegui, Doroteo) Generalized problems of multiterminal and k-terminal network reliability. (Spanish. English and Spanish summaries) **2004b:68009**
Gardi, Frédéric Efficient algorithms for disjoint matchings among intervals and related problems. (English summary) (*see* **2004k:68004**)
Garg, Naveen *see* **Eisenbrand, Friedrich et al.**, (**2004a:68002**)
Gargano, Luisa (*with* Hell, Pavol; Stacho, Ladislav; Vaccaro, Ugo) Spanning trees with bounded number of branch vertices. (English summary)
Gavoille, Cyril *see* **Bonichon, Nicolas et al.**
Gaysinsky, Alexander (*with* Itai, Alon; Shachnai, Hadas) Strongly competitive algorithms for caching with pipelined prefetching. (English summary)
Georgiadis, Leonidas Arborescence optimization problems solvable by Edmonds' algorithm. (English summary) **2004c:05188**
Gerber, Michael U. (*with* Kobler, Daniel) Algorithms for vertex-partitioning problems on graphs with fixed clique-width. (English summary) **2004c:68052**
Gerbessiotis, Alexandros V. Random graphs in a neural computation model. (English summary)
Ghosh, Ratan K. *see* **Srivastava, Saurabh**, **2004h:68151**
Ghosh, Sasthi C. (*with* Sinha, Bhabani P.; Das, Nabanita) A new approach to efficient channel assignment for hexagonal cellular networks. (English summary)
Giakoumakis, Vassilis (*with* Vanherpe, Jean-Marie) Linear time recognition and optimizations for weak-bisplit graphs, bi-cographs and bipartite P_6-free graphs. (English summary) **2004c:05189**
Giancarlo, Raffaele *see* **Buchsbaum, Adam L. et al.**, **2004j:68073**
Giaro, Krzysztof (*with* Janczewski, Robert; Małafiejski, Michał) The complexity of the T-coloring problem for graphs with small degree. (English summary) **2004f:05174**
— (*with* Janczewski, Robert; Małafiejski, Michał) A polynomial algorithm for finding T-span of generalized cacti. (English summary) **2004g:05059**
Gibbons, Alan (*with* Sant, Paul) Edge-colouring pairs of binary trees: towards a concise proof of the four-colour theorem of planar maps. (English summary)
Gimbert, Joan *see* **Comellas, Francesc et al.**, **2004e:05114**
Glagolev, V. V. (*with* Mochalova, A. V.) On the parsing of faces of an n-dimensional cube. (Russian. English and Russian summaries)
Glass, Celia A. (*with* Prügel-Bennett, Adam) Genetic algorithm for graph coloring: exploration of Galinier and Hao's algorithm. (English summary) **2004k:05086**
Godard, Emmanuel *see* **Fertin, Guillaume et al.**, **2004c:05069**
Godin, Christophe *see* **Ferraro, Pascal**, **2004f:68180**
Gołąb, Karol *see* **Chlebus, Bogdan S. et al.**, **2004i:68246**
Goldreich, Oded Property testing in massive graphs. (English summary) **2004d:05184**
— (*with* Trevisan, Luca) Three theorems regarding testing graph properties. (English summary) **2004i:68081**
Golovach, Petr A. *see* **Fomin, Fedor V.**, **2004e:05167**
Golub, Evan *see* **Gararch, William et al.**, **2004j:68048**
Goodall, A. J. The Tutte polynomial modulo a prime. (English summary) **2004m:05258**
Goodrich, Michael T. *see* **Duncan, Christian A. et al.**, **2004a:05041**
Gottlob, Georg (*with* Pichler, Reinhard) Hypergraphs in model checking: acyclicity and

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Gould, Ronald J. *see* **Ferrara, Michael et al., 2004g:05079**
Grandoni, Fabrizio[2] *see* **Eisenbrand, Friedrich, 2004c:05185**
Grohe, Martin Local tree-width, excluded minors, and approximation algorithms. (English summary) **2004m:05248**
Gu, Jun *see* **Zhou, Zhi[2] et al., 2004c:68164; 2004h:68157** *and* **Liu, Rui et al.**
Guha, Sudipto (*with* Hassin, Refael; Khuller, Samir; Or, Einat) Capacitated vertex covering. (English summary) **2004f:05175**
Gupta, Anupam *see* **Chekuri, Chandra et al., (2004a:68002)**
Guruswami, Venkatesan (*with* Khanna, Sanjeev; Rajaraman, Rajmohan; Shepherd, F. Bruce; Yannakakis, Mihalis) Near-optimal hardness results and approximation algorithms for edge-disjoint paths and related problems. (English summary) **2004i:68083**
Gurvich, Vladimir *see* **Boros, Endre et al., 2004d:05134**
Gusev, N. S. On convex realizations of planar linear trees. (Russian. Russian summary) **2004d:05051**
Guttmann, Anthony J. *see* **Vöge, Markus, 2004k:05063**
Guttmann, Sven *see* **Engel, Konrad, 2004b:05181**
Hallett, Michael T. *see* **Dujmović, Vida et al., 2004b:68065**
Halperin, Eran *see* **Cohen, Edith et al., 2004g:68207**
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Hariharan, Ramesh *see* **Baswana, Surender et al., (2004a:68002)**
Harrelson, Chris *see* **Fakcharoenphol, Jittat et al., (2004a:68002)**
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Harutyunyan, Hovhannes A. (*with* Shao, Bin[3]) Optimal k-broadcast in trees. (English summary) **2004m:68007**
Hasnah, Ahmad M. *see* **Jaam, Jihad Mohamad**
Hassin, Refael *see* **Conforti, Michele et al., 2004c:05183** *and* **Guha, Sudipto et al., 2004f:05175**
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Haxell, P. E. (*with* Nagle, Brendan; Rödl, Vojtěch) Integer and fractional packings in dense 3-uniform hypergraphs. (English summary) **2004c:05134**
He, Weiqing *see* **Marriott, Kim et al., 2004a:90106**
He, Xin[1] *see* **Chen, Zhi-Zhong et al., 2004b:05189** *and* **Zhang, Huaming**
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Hedetniemi, Stephen T. (*with* Jacobs, David P.; Srimani, Pradip K.) Linear time self-stabilizing colorings. (English summary) **2004f:68185**
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Heggernes, Pinar *see* **Fiala, Jiří et al.**
Hell, Pavol Algorithmic aspects of graph homomorphisms. (English summary) **2004k:05190**
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Hicks, Illya V. Branch decompositions and minor containment. (English summary)
Hirsch, Colin *see* **Fleischer, Rudolf, (2004b:05003)**
Hirschberg, Daniel S. *see* **Dillencourt, Michael B. et al., 2004f:05044**
Hliněný, Petr Crossing-critical graphs and path-width. (English summary) **2004b:05161**
Hoàng, Chính T. *see* **Brandstädt, Andreas et al., 2004j:05114**
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Horton, S. B. (*with* Easton, Todd; Parker, R. Gary) The linear arrangement problem on recursively constructed graphs. (English summary) **2004g:05144**
Hou, Xinmin (*with* Wang, Tian Ming) On generalized wide diameter of graphs. (English summary) **2004b:05120**
Hsu, Hong-Chun *see* **Hung, Chun-Nan et al., 2004c:05115**
Hsu, Li-Yen *see* **Cho, Hsun-Jung, 2004c:68007**
Hsu, Lih-Hsing *see* **Hung, Chun-Nan et al., 2004c:05115; Kao, Shin-Shin, 2004c:05116; Tsai, Chang-Hsiung et al., 2004f:05096** *and* **Yang, Ming-Chien et al., 2004g:68008**
Hsu, Wen-Lian (*with* McConnell, Ross M.) PC trees and circular-ones arrangements. (English summary) **2004b:05061**
Huang, Cheng Xing *see* **Yang, Huakang et al.**
Huang, Liu Sheng *see* **Zhou, Zhi[2] et al., 2004c:68164** *and* **2004h:68157**
Huang, Xiao *see* **Cheng, Xiuzhen et al., 2004j:68196**
Huerta, Ramón *see* **Aguirre, Carlos et al., 2004a:68003**
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Husfeldt, Thore *see* **Björklund, Andreas**
Hwang, Frank K. A survey on multi-loop networks. (English summary) **2004d:68007**
Ibaraki, Toshihide *see* **Zhao, Liang et al., 2004b:05196**
Ibarra, L. *see* **Chandran, L. Sunil et al., 2004h:05122**
Igarashi, Yoshihide *see* **Altman, Tom et al.**
Irani, Sandy (*with* Leung, Vitus) Scheduling with conflicts on bipartite and interval graphs. (English summary) **2004i:68256**
Ishii, Toshimasa *see* **Nagamochi, Hiroshi et al.**
Isobe, Shuji (*with* Zhou, Xiao; Nishizeki, Takao) Total colorings of degenerated graphs. (English summary)
Itai, Alon *see* **Gaysinsky, Alexander et al.**
Italiano, Giuseppe F. *see* **Demetrescu, Camil**
Jaakkola, Tommi S. *see* **Wainwright, Martin J. et al., 2004d:68156**
Jaam, Jihad Mohamad (*with* Hasnah, Ahmad M.) Improvement of the DSATUR algorithm for graph coloring. (English and Arabic summaries)
Jacobs, David P. *see* **Hedetniemi, Stephen T. et al., 2004f:68185** *and* **Hedetniemi, Sandra M. et al., 2004i:05121**
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Janczewski, Robert *see* **Giaro, Krzysztof et al., 2004f:05174** *and* **2004g:05059**
Janowitz, Melvin F. *see* **Crown, Gary D., 2004f:05121**
Jansen, Klaus *see* **Erlebach, Thomas, 2004d:68183**
Janssens, Dirk Marcel Local action systems and DPO graph transformation. (English summary) (*see* **2004j:00032**)
Janzing, Dominik *see* **Wocjan, Pawel et al.**
Jarry, A. *see* **Xuan, B. Bui et al., 2004c:68011**
Jaumard, Brigitte *see* **Hansen, Pierre et al., 2004j:62132**
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Jha, Pranava K. Perfect r-domination in the Kronecker product of two cycles, with an application to diagonal/toroidal mesh. (English summary) **2004d:05141**
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Jiang, Cheng Dong *see* **Zhou, Zhi[2] et al., 2004c:68164** *and* **2004h:68157**
Jiang, Tao[1] *see* **Chen, Zhi-Zhong et al., 2004b:68188** *and* **2004f:92019**
Joshi, Aravind K. A note on the strong and weak generative powers of formal systems. (English summary) **2004b:68093**
Jünger, Michael *see* **Buchheim, Christoph, 2004b:05188**
Kabadi, Santosh (*with* Punnen, Abraham P.) Weighted graphs with all Hamiltonian cycles of the same length. (English summary) **2004g:05093**
Kaklamanis, Christos *see* **Caragiannis, Ioannis et al., 2004b:68187**
Kalinowski, Tomasz A recolouring problem on undirected graphs. (English summary)
Kanellopoulos, Panagiotis *see* **Caragiannis, Ioannis et al., 2004b:68187**
Kang, Li Ying (*with* Qiao, Hong; Shan, Er Fang; Du, Ding-Zhu) Lower bounds on the minus domination and k-subdomination numbers. (English summary) **2004b:05151**
Kang, Youngyug *see* **Kim, Koonchan, 2004j:05070**
Kanj, Iyad A. (*with* Perković, Ljubomir) Improved parameterized algorithms for planar dominating set. (English summary)
Kao, Ming-Yang *see* **Chen, Zhi-Zhong et al., 2004b:05189**
Kao, Shin-Shin (*with* Hsu, Lih-Hsing) Brother trees: a family of optimal 1_p-Hamiltonian and 1-edge Hamiltonian graphs. (English summary) **2004c:05116**
Kaplan, Haim *see* **Cohen, Edith et al., 2004g:68207**
Kapoor, Ajai *see* **Conforti, Michele et al., 2004e:05182**
Karger, David R. Randomization in graph optimization problems: a survey. (English summary) **2004c:05192**
Karloff, Howard *see* **Călinescu, Gruia et al., 2004b:68186**
Karpinski, Marek *see* **Berman, Piotr**
Karpovsky, Mark G. *see* **Honkala, Iiro et al., 2004f:05093**
Kash, Ian A. *see* **Blandford, Daniel K. et al., (2004a:68002)**
Katepalli, Sushma *see* **Kountanis, Dionysios, 2004e:68007**
(Kaufmann, Michael) *see* **Drawing graphs, 2004b:05003**
Kavitha, T. *see* **Chandran, L. Sunil et al.**
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Khachiyan, Leonid *see* **Boros, Endre et al., 2004d:05134**
Khanna, Sanjeev *see* **Guruswami, Venkatesan et al., 2004i:68083** *and* **Chekuri, Chandra, (2004a:68002)**
Khot, Subhash *see* **Chakrabarti, Amit**
Khuller, Samir *see* **Guha, Sudipto et al., 2004f:05175** *and* **Gandhi, Rajiv et al.**
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Kim, Hee-Chul *see* **Park, Jung-Heum**
Kim, Ju Young (*with* Kim, Sung Sook) Pebbling numbers of the compositions of two graphs. (English summary) **2004e:05194**
Kim, Koonchan (*with* Kang, Youngyug) Recognition of strongly connected components by the location of nonzero elements occurring in $C(G) = (D - A(G))^{-1}$. (English

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Kim, Sung Sook *see* **Kim, Ju Young**, **2004e:05194**

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Klau, Gunnar W. *see* **Eiglsperger, Markus et al.**, (**2004b:05003**)

Klostermeyer, William F. *see* **Eschen, Elaine M. et al.**, **2004d:05137**

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Köbler, Johannes (*with* Torán, Jacobo) The complexity of graph isomorphism for colored graphs with color classes of size 2 and 3. (English summary) **2004m:68096**

Kobourov, Stephen G. *see* **Duncan, Christian A. et al.**, **2004a:05041** *and* **Gajer, Pawel**, **2004f:68165**

Kochol, Martin Constructions of graphs without nowhere-zero flows from Boolean formulas. (English summary)

Kohayakawa, Yoshiharu (*with* Rödl, Vojtěch; Thoma, L.) An optimal algorithm for checking regularity. (English summary) **2004f:05176**

Köhler, Ekkehard *see* **Corneil, Derek G. et al.**, **2004i:05150**

Kolman, Petr A note on the greedy algorithm for the unsplittable flow problem. (English summary) **2004h:68156**

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Könemann, Jochen (*with* Li, Yan Jun; Parekh, Ojas; Sinha, Amitabh) Approximation algorithms for edge-dilation k-center problems. (English summary)

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Kosolapov, V. N. *see* **Mel'nikov, O. I.**, **2004e:05130**

Kostochka, A. V. *see* **Pemmaraju, Sriram et al.**, (**2004a:68002**)

Kosub, Sven *see* **Holzapfel, Klaus et al.**, (**2004j:68002**)

Kouider, Mekkia *see* **Djelloul, Selma**, **2004g:05053**

Kountanis, Dionysios (*with* Katepalli, Sushma) Network connections and link balance load. (English summary) **2004e:68007**

Kowalik, Lukasz *see* **Diks, Krzysztof et al.**

Kowalski, Dariusz R. *see* **Chlebus, Bogdan S. et al.**, **2004i:68246**

Kráľ, Daniel (*with* Škrekovski, Riste) A theorem about the channel assignment problem. (English summary) **2004f:05059**

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Královič, Rastislav (*with* Ružička, Peter) Minimum feedback vertex sets in shuffle-based interconnection networks. (English summary) **2004c:68008**

Kranakis, Evangelos (*with* Krizanc, Danny; Shende, Sunil) Approximate hotlink assignment. (English summary) **2004m:68268**

Krandick, Werner Trees and jumps and real roots. (English summary) **2004m:68298**

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Krauthgamer, Robert *see* **Feige, Uriel**, **2004c:05137**

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Krész, Miklós *see* **Bartha, Miklós**, **2004c:05148**

Kristiansen, Petter *see* **Fiala, Jiří et al.**

Krivelevich, Michael (*with* Sudakov, Benny) Approximate coloring of uniform hypergraphs. (English summary) **2004m:05183**

Krizanc, Danny *see* **Kranakis, Evangelos et al.**, **2004m:68268**

Kruskal, Clyde *see* **Gararch, William et al.**, **2004j:68048**

Krysta, Piotr *see* **Berman, Piotr**, (**2004a:68002**)

Kurowski, Maciej *see* **Diks, Krzysztof et al.**

Labbé, Martine *see* **Feremans, Corinne et al.**, **2004j:90134**

Laforest, Christian *see* **Klasing, Ralf**

Lagergren, Jens *see* **Fernández-Baca, David**, **2004i:68080**

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Laguna, Manuel *see* **Martí, Rafael**, **2004c:90109**

Lam, Fumei (*with* Pachter, Lior) Forcing numbers of stop signs. (English summary) **2004d:05160**

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Laporte, Gilbert *see* **Feremans, Corinne et al.**, **2004j:90134**

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Le, Hoàng-Oanh *see* **Brandstädt, Andreas et al.**, **2004h:05120**

Le, Van Bang (*with* Randerath, Bert) On stable cutsets in line graphs. (English summary) **2004c:05110**

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Lee, Richard Char Tung *see* **Lu, Chin Lung et al.**, **2004f:05178**

Le Saëc, Bertrand *see* **Bonichon, Nicolas et al.**

Leu, Shao-Wei *see* **Jan, Gene Eu et al.**

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Li, Deying *see* **Cheng, Xiuzhen et al.**, **2004j:68196**

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Li, Hai-zhu *see* **Wang, Jian Fang**, **2004h:05065**

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Liang, Tyne *see* **Tsai, Chang-Hsiung et al.**, **2004f:05096**

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Lim, Hyeong-Seok *see* **Hambrusch, Susanne E. et al.**, **2004g:68189**

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Lin, Men-Yang *see* **Tsai, Chang-Hsiung et al.**, **2004f:05096**

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Lin, Yi-xun The cutwidth of trees with diameter at most 4. (English summary) **2004g:05141**

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Ling, Alan C. H. *see* **Colbourn, Charles J.**, **2004a:68005**

(Liotta, Giuseppe) *see* **Symposium: Graph Drawing**

Liśkiewicz, Maciej *see* **Jakoby, Andreas**

Litsyn, Simon *see* **Honkala, Iiro et al.**, **2004f:05093**

Liu, Chuan-Ming *see* **Hambrusch, Susanne E. et al.**, **2004g:68189**

Liu, Qi *see* **Xu, Jun Ming**, **2004b:68013**

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Löding, Christof Ground tree rewriting graphs of bounded tree width. (English summary) **2004m:68125**

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Long, Di *see* **Liu, Rui et al.**

Lotker, Zvi (*with* Patt-Shamir, Boaz) Average-case analysis of greedy packet scheduling. (English summary) **2004e:68009**

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Ma, Shao Han *see* **Luan, Jun Feng et al.**, **2004c:68054**

Maaß, Moritz G. *see* **Holzapfel, Klaus et al.**, (**2004j:68002**)

Machado, Fabio P. *see* **Fontes, Luiz Renato et al.**, **2004m:60221**

Mäkinen, Erkki (*with* Siltaneva, Jarmo) A note on Rémy's algorithm for generating random binary trees. (English summary) **2004d:68108**

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Malafiejski, Michał *see* **Giaro, Krzysztof et al.**, **2004f:05174** *and* **2004g:05059**

Mândoiu, Ion *see* **Jain, Kamal et al.**, **2004h:90024**

Manke, Dennis *see* **Ellis, John A. et al.**, **2004d:05058**

Mans, Bernard *see* **Flocchini, Paola et al.**, **2004b:68008**

Mao, Weizhen (*with* Nicol, David M.) On k-ary and n-cubes: theory and applications. (English summary) **2004h:68010**

Marchetti-Spaccamela, Alberto *see* **Frigioni, Daniele et al.**, **2004j:05116**

Marenco, Javier *see* **Coll, Pablo et al.**, **2004g:05057**

Mariño, J. P. *see* **Makowsky, Johann A.**, **2004g:05146**

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Mason, James J. *see* **Wu, Xiaodong et al.**

Massini, Annalisa *see* **Calamoneri, Tiziana et al.**, **2004h:05113**

Matamala, Martín *see* **Fomin, Fedor V. et al.**

Matsuo, Yuki *see* **Zhou, Xiao et al.**

Matuszewski, Christian *see* **Bastert, Oliver**, (**2004b:05003**)

McConnell, Ross M. *see* **Hsu, Wen-Lian**, **2004b:05061**

McKay, Brendan D. *see* **Brinkmann, Gunnar et al.**, **2004f:05169**

McKenzie, Andy *see* **Bryant, David et al.**, **2004f:92003**

Mei, Alessandro *see* **Dubhashi, Devdatt et al.**, (2004a:68002)
Meidanis, João *see* **de Figueiredo, Celina M. H. et al.**, 2004d:05067
Meijer, Henk *see* **Fekete, Sándor P.**, 2004m:68285
Melançon, Guy (*with* Philippe, Fabrice) Generating connected acyclic digraphs uniformly at random. (English summary)
de Mello, Célia Picinin *see* **de Figueiredo, Celina M. H. et al.**, 2004d:05067
Mel'nikov, O. I. (*with* Kosolapov, V. N.) Recognition of the P_4-structure of a caterpillar. (Russian. English and Russian summaries) **2004e:05130**
Mendel, Manor *see* **Bartal, Yair**, (2004a:68002)
Méndez Díaz, Isabel *see* **Coll, Pablo et al.**, 2004g:05057
Mendivil, Franklin Fractals, graphs, and fields. **2004d:28022**
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Meyer, Ulrich² (*with* Sanders, Peter) Δ-stepping: a parallelizable shortest path algorithm. (English summary) **2004k:68180**
Micikevicius, Paulius *see* **Deo, Narsingh**, 2004d:05151
Mili, Rym *see* **Castelló, Rodolfo et al.**
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Mitjana, Margarida *see* **Comellas, Francesc et al.**, 2004e:05114
Mladenović, Nenad *see* **Urošević, Dragan et al.**, 2004m:90190
Mochalova, A. V. *see* **Glagolev, V. V.**
Monnot, Jérôme (*with* Paschos, Vangelis Th.; Toulouse, Sophie) Local approximations for maximum partial subgraph problem. (English summary) **2004j:05119**
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Montanari, Ugo *see* **Baldan, Paolo et al.**, (2004j:00032)
Mosbah, Mohamed *see* **Bonichon, Nicolas et al.**
Moses, Yoram (*with* Rajsbaum, Sergio) A layered analysis of consensus. (English summary) **2004e:68011**
Motegi, Kazuhiro *see* **Altman, Tom et al.**
Müller, Haiko *see* **Fomin, Fedor V. et al.**, 2004f:05137
Müller, Martin² *see* **Zhou, Jianjun**, 2004h:68160
Müller-Hannemann, Matthias Drawing trees, series-parallel digraphs, and lattices. (*see* **2004b:05003**)
Muradian, David The bandwidth minimization problem for cyclic caterpillars with hair length 1 is NP-complete. (English summary)
Nagamochi, Hiroshi (*with* Suzuki, Takahisa; Ishii, Toshimasa) A simple recognition of maximal planar graphs. (English summary)
— *see also* **Zhao, Liang et al.**, 2004b:05196
Nagle, Brendan *see* **Haxell, P. E. et al.**, 2004c:05134
Nagy, Naya (*with* Akl, Selim G.) The maximum flow problem: a real-time approach. (English summary) **2004e:68119**
Nakano, Koji Linear layout of generalized hypercubes. (English summary) **2004b:68011**
Nakano, Shin-ichi Enumerating floorplans with some properties. (English summary) **2004b:05192**
— *see also* **Kikuchi, Yosuke et al.** *and* **Li, Zhangjian**
Nakprasit, K. *see* **Pemmaraju, Sriram et al.**, (2004a:68002)
Nanni, Umberto *see* **Frigioni, Daniele et al.**, 2004j:05116
Narayanan, Harihar *see* **Patkar, Sachin B.**, 2004a:05153
von Nathusius, Ulrike *see* **Brinkmann, Gunnar et al.**, 2004f:05169
Newman, Ilan *see* **Chekuri, Chandra et al.**, (2004a:68002)
Neyer, Gabriele Map labeling with application to graph drawing. (*see* **2004b:05003**)
Ngo, Hung Q. (*with* Vu, Van H.) Multirate rearrangeable Clos networks and a generalized edge coloring problem on bipartite graphs. (English summary) (*see* **2004a:68002**)
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Nickelsen, Arfst (*with* Tantau, Till) On reachability in graphs with bounded independence number. (English summary)
Nicol, David M. *see* **Mao, Weizhen**, 2004h:68010
Niedermeier, Rolf *see* **Alber, Jochen et al.**
Nikolopoulos, Stavros D. (*with* Palios, Leonidas) On the recognition of P_4-comparability graphs. (English summary)
— (*with* Palios, Leonidas) Parallel algorithms for P_4-comparability graphs. (English summary) **2004m:05255**
— (*with* Palios, Leonidas) Parallel algorithms for recognizing P_5-free and $\overline{P}_5$-free weakly chordal graphs. (English summary) **2004m:68276**
Nishizeki, Takao *see* **Zhou, Xiao et al.**, 2004m:68273 *and* **Isobe, Shuji et al.**
Nutov, Zeev *see* **Kortsarz, Guy**, 2004e:05185
Okada, Shinkoh Fuzzy shortest path problems incorporating interactivity among paths. (English summary) **2004k:68014**
Or, Einat *see* **Guha, Sudipto et al.**, 2004f:05175
Orlin, James B. *see* **Ahuja, Ravindra K. et al.**, 2004j:90129
Ortiz, Carmen *see* **de Figueiredo, Celina M. H. et al.**, 2004d:05067
Osawa, Shingo *see* **Kikuchi, Yosuke et al.**
Ossona de Mendez, Patrice *see* **de Fraysseix, Hubert**, 2004a:05151
Ouyang, Qi *see* **Li, Yuan² et al.**
Ozón, Javier Universality of small-world networks. (Catalan. Catalan summary)
Pach, János (*with* Pinchasi, Rom; Tardos, Gábor; Tóth, Géza) Geometric graphs with no self-intersecting path of length three. (English summary)
— (*with* Tardos, Gábor) Untangling a polygon. (English summary) **2004b:05193**
— (*with* Tóth, Géza) Recognizing string graphs is decidable. (English summary) **2004b:05070**
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Pachter, Lior *see* **Lam, Fumei**, 2004d:05160
Pal, Madhumangal *see* **Bera, Debashis et al.**, 2004d:68176
Pal, Tapan K. *see* **Bera, Debashis et al.**, 2004d:68176
Palios, Leonidas *see* **Nikolopoulos, Stavros D.**, 2004m:05255 *and* 2004m:68276
Pallottino, Stefano *see* **Ahuja, Ravindra K. et al.**, 2004j:90129
Panconesi, Alessandro *see* **Caprara, Alberto et al.**, 2004h:05121 *and* **Dubhashi, Devdatt et al.**, (2004a:68002)
Panda, B. S. (*with* Das, Sajal K.) A linear time recognition algorithm for proper interval graphs. (English summary) **2004d:05190**
Parekh, Ojas *see* **Könemann, Jochen et al.**
Park, Jung-Heum (*with* Kim, Hee-Chul) Fault-Hamiltonicity of product graph to path and cycle. (English summary)
Parker, R. Gary *see* **Horton, S. B. et al.**, 2004g:05144
Paschos, Vangelis Th. *see* **Monnot, Jérôme et al.**, 2004j:05119 *and* **Demange, Marc et al.**
Pascoal, Marta M. B. *see* **Martins, Ernesto de Queirós Vieira**, 2004k:05193
Patkar, Sachin B. (*with* Narayanan, Harihar) Fast on-line/off-line algorithms for optimal reinforcement of a network and its connections with principal partition. (English summary) **2004a:05153**
Patt-Shamir, Boaz *see* **Lotker, Zvi**, 2004e:68009
Pelc, Andrzej *see* **Dessmark, Anders**, 2004m:68004
Peleg, David *see* **Bermond, Jean-Claude et al.**, 2004f:05128
Pemmaraju, Sriram (*with* Nakprasit, K.; Kostochka, A. V.) Equitable colorings with constant number of colors. (*see* **2004a:68002**)
Peng, Shen Lung *see* **Lu, Chin Lung et al.**, 2004a:05117
Pérennès, Stéphane *see* **Bermond, Jean-Claude et al.**, 2004f:05128
Perković, Ljubomir *see* **Kanj, Iyad A.**
Philippe, Fabrice *see* **Melançon, Guy**
Pichler, Reinhard *see* **Gottlob, Georg**
Pinchasi, Rom *see* **Pach, János et al.**
Pönitz, André *see* **Dohmen, Klaus et al.**, 2004j:05053
Proietti, Guido *see* **Gaibisso, Carlo et al.**
Prolubnikov, A. V. An algorithm for the search for an approximate solution of the subgraph isomorphism problem. (Russian. English summary) **2004m:05179**
Propp, James Generalized domino-shuffling. (English summary) **2004j:05038**
Provan, J. Scott A polynomial-time algorithm to find shortest paths with recourse. (English summary) **2004a:90108**
Prügel-Bennett, Adam *see* **Glass, Celia A.**, 2004k:05086
Punnen, Abraham P. *see* **Kabadi, Santosh**, 2004g:05093
Purchase, Helen C. (*with* Allder, Jo-Anne; Carrington, David) Graph layout aesthetics in UML diagrams: user preferences. (English summary)
Puri, Anuj (*with* Tripakis, Stavros) Algorithms for the multi-constrained routing problem. (English summary)
Puricella, Antonio (*with* Stewart, Iain A.) Greedy algorithms, H-colourings and a complexity-theoretic dichotomy. (English summary) **2004k:68071**
Qiao, Hong *see* **Kang, Li Ying et al.**, 2004b:05151
Rabinovich, Yuri *see* **Chekuri, Chandra et al.**, (2004a:68002)
Radhakrishnan, Jaikumar *see* **Mishra, Sounaka et al.**, 2004k:68060 *and* **Dubhashi, Devdatt et al.**, (2004a:68002)
Rajaraman, Rajmohan *see* **Guruswami, Venkatesan et al.**, 2004i:68083
Rajsbaum, Sergio *see* **Moses, Yoram**, 2004e:68011
Ramnath, Sarnath Forewarned is fore-armed: dynamic digraph connectivity with lookahead speeds up a static clustering algorithm. (English summary)
Randerath, Bert *see* **Le, Van Bang**, 2004c:05110
Rao, Michaël *see* **Bodlaender, Hans L. et al.**
Rao, Satish *see* **Fakcharoenphol, Jittat et al.**, (2004a:68002)
Rapaport, Ivan *see* **Fomin, Fedor V. et al.**
Raspaud, André *see* **Fertin, Guillaume et al.**, 2004c:05069 *and* (2004a:05004)
Ravi, Ramamoorthi *see* **Könemann, Jochen**, 2004c:68160 *and* **Conforti, Michele et al.**, 2004e:05183
Raz, Ran (*with* Reingold, Omer; Vadhan, Salil) Extracting all the randomness and reducing the error in Trevisan's extractors. (English summary) **2004f:68031**
— *see also* **Hartman, Tzvika**, 2004i:05024
Reed, Bruce A. *see* **Călinescu, Gruia et al.**, 2004f:68187
Reingold, Omer *see* **Raz, Ran et al.**, 2004f:68031
Ricca, Federica *see* **Lari, Isabella et al.**
de Ridder, H. N. *see* **Brandstädt, Andreas et al.**, 2004m:05251
Riordan, Oliver M. *see* **Bollobás, Béla et al.**, (2004a:68002)
Rizzi, Romeo *see* **Caprara, Alberto et al.**, 2004h:05121
Rödl, Vojtěch *see* **Haxell, P. E. et al.**, 2004c:05134 *and* **Kohayakawa, Yoshiharu et al.**, 2004f:05176
Ron, Dana Property testing. **2004c:68161**
Roncato, Alessandro *see* **Flocchini, Paola et al.**, 2004j:68188
Rosendahl, Petri On the identification problems in products of cycles. (English summary) **2004k:05128**
Rothe, Jörg *see* **Hemaspaandra, Edith et al.**
Rotics, Udi *see* **Kobler, Daniel**, 2004i:68084 *and* **Bodlaender, Hans L.**
Rubinfeld, Ronitt *see* **Chazelle, Bernard et al.**
Ruskey, Frank *see* **Chandran, L. Sunil et al.**, 2004h:05122
Ružička, Peter *see* **Královič, Rastislav**, 2004c:68008
Sajith, G. (*with* Saxena, Sanjeev) Local nature of Brooks' colouring for degree 3 graphs. (English summary) **2004m:05113**
Salavatipour, Mohammad R. A $(1+\varepsilon)$-approximation algorithm for partitioning hypergraphs using a new algorithmic version of the Lovász local lemma. (English summary) (*see* **2004a:68002**)
Sanders, Peter *see* **Meyer, Ulrich²**, 2004k:68180
Sant, Paul *see* **Gibbons, Alan**
Santoro, Nicola *see* **Flocchini, Paola et al.**, 2004b:68008 *and* 2004j:68188
Sarkar, Anish *see* **Fontes, Luiz Renato et al.**, 2004m:60221
Saunders, Shane (*with* Takaoka, Tadao) Improved shortest path algorithms for nearly acyclic graphs. (English summary) **2004b:05194**
Sawada, Joe (*with* Spinrad, Jeremy P.) From a simple elimination ordering to a strong elimination ordering in linear time. (English summary) **2004c:05194**
— *see also* **Chandran, L. Sunil et al.**, 2004h:05122
Saxena, Sanjeev *see* **Sajith, G.**, 2004m:05113
Schaeffer, Gilles *see* **Cori, Robert**, 2004b:05104

Scheideler, Christian *see* **Kolman, Petr**, **2004m:68053**
Schepers, Jörg *see* **Fekete, Sándor P.**
Schindl, David *see* **Hertz, Alain et al.**, **2004c:05190**
Schmid, Steven R. *see* **Wu, Xiaodong et al.**
Schrijver, Alexander ★ Combinatorial optimization. Polyhedra and efficiency. Vol. A. **2004b:90004a**
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(Schuster, Heinz Georg) *see* **Handbook: Graphs and networks**, **2004f:00010**
Scozzari, Andrea *see* **Lari, Isabella et al.**
Scutellà, Maria Grazia *see* **Ahuja, Ravindra K. et al.**, **2004j:90129**
Sen, Sandeep *see* **Baswana, Surender et al.**, (**2004a:68002**)
Serna, Maria José *see* **Àlvarez, Carme et al.**, **2004m:68084** *and* **Díaz, Josep et al.**
Seymour, P. D. *see* **Cook, William**, **2004f:90152**
Shachnai, Hadas *see* **Gaysinsky, Alexander et al.**
Shahrokhi, Farhad (*with* Sýkora, Ondrej; Székely, László A.; Vrt'o, Imrich) Bounds for convex crossing numbers. (English summary)
Shan, Er Fang *see* **Kang, Li Ying et al.**, **2004b:05151**
Shao, Bin[3] *see* **Harutyunyan, Hovhannes A.**, **2004m:68007**
Shapira, Asaf *see* **Alon, Noga**, **2004g:68053**
Shende, Sunil *see* **Kranakis, Evangelos et al.**, **2004m:68268**
Shepherd, F. Bruce *see* **Guruswami, Venkatesan et al.**, **2004i:68083**
Shibata, Yukio *see* **Kikuchi, Yosuke et al.**
Siltaneva, Jarmo *see* **Mäkinen, Erkki**, **2004d:68108**
Simeone, Bruno *see* **Hansen, Pierre et al.**, **2004j:62132**
Simon, Imre *see* **do Lago, Alair Pereira**, **2004m:68002**
Sinclair, Alistair *see* **Chekuri, Chandra et al.**, (**2004a:68002**)
Sinha, Amitabh *see* **Könemann, Jochen et al.**
Sinha, Bhabani P. *see* **Ghosh, Sasthi C. et al.**
Sivasubramanian, S. *see* **Mishra, Sounaka et al.**, **2004k:68060**
Škrekovski, Riste *see* **Kráľ, Daniel**, **2004f:05059**
Skulrattanakulchai, San Δ-list vertex coloring in linear time. (English summary)
Skutella, Martin *see* **Fleischer, Lisa**, (**2004a:68002**)
Slany, Wolfgang *see* **Even, Guy et al.**
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Solé, Patrick *see* **Cartwright, Donald I. et al.**, **2004e:05113**
Solomon, Andrew Israel (*with* Barnes, J. W.; Dokov, S. P.; Acevedo, R.) Weakly symmetric graphs, elementary landscapes, and the TSP. (English summary) **2004e:90144**
— *see also* **Barnes, J. W. et al.**, **2004e:90143**
Souza, Sergio R. *see* **Barbosa, Valmir C. et al.**, **2004f:82019**
Spakowski, Holger *see* **Hemaspaandra, Edith et al.**
Spinrad, Jeremy P. ★ Efficient graph representations. **2004e:05001**
— *see also* **Sawada, Joe**, **2004c:05194**; **Kratsch, Dieter**, (**2004a:68002**) *and* **Bodlaender, Hans L. et al.**
Srebro, Nathan Maximum likelihood bounded tree-width Markov networks. (English summary) **2004b:68136**
Srimani, Pradip K. *see* **Hedetniemi, Stephen T. et al.**, **2004f:68185** *and* **Hedetniemi, Sandra M. et al.**, **2004i:05121**
Srinivasan, Aravind *see* **Dubhashi, Devdatt et al.**, (**2004a:68002**) *and* **Gandhi, Rajiv et al.**
Sritharan, R. *see* **Eschen, Elaine M. et al.**, **2004d:05137**
Srivastava, Saurabh (*with* Ghosh, Ratan K.) Distributed algorithms for finding and maintaining a k-tree core in a dynamic network. (English summary) **2004h:68151**
Stacho, Ladislav *see* **Gargano, Luisa et al.**
Stallmann, Matthias F. *see* **Hochberg, Robert A.**, **2004e:68117**
Steel, Michael Anthony *see* **Bryant, David et al.**, **2004f:92003**
Stewart, Iain A. *see* **Puricella, Antonio**, **2004k:68071**
Stewart, Lorna *see* **Čenek, Eowyn**, **2004j:05089**
Stuckey, Peter J. *see* **Marriott, Kim et al.**, **2004a:90106**
Subramanian, C. R. *see* **Chandran, L. Sunil et al.**, **2004g:05097**
Sudakov, Benny *see* **Krivelevich, Michael**, **2004m:05183**
Suffel, Charles *see* **Ferrara, Michael et al.**, **2004g:05079**
Sun, Yugeng *see* **Cao, Qiguo et al.**, **2004f:05098**
Suzuki, Takahisa *see* **Nagamochi, Hiroshi et al.**
Sviridenko, M. I. *see* **Coppersmith, Don et al.**, **2004f:82029**
Sýkora, Ondrej *see* **Shahrokhi, Farhad et al.**
Székely, László A. *see* **Shahrokhi, Farhad et al.**
Szwarcfiter, Jayme L. *see* **Dias, Vânia M. F. et al.**, **2004g:05002**
Takaoka, Tadao *see* **Saunders, Shane**, **2004b:05194**
Talwar, Kunal *see* **Fakcharoenphol, Jittat et al.**, (**2004a:68002**)
Tam, Vincent *see* **Marriott, Kim et al.**, **2004a:90106**
Tamaki, Hisao (*with* Tokuyama, Takeshi) A characterization of planar graphs by pseudo-line arrangements. (English summary) **2004b:05177**
Tamassia, Roberto *see* **Bridgeman, Stina**
Tan, Jimmy J. M. *see* **Yang, Ming-Chien et al.**, **2004g:68008**
Tan, Richard B. *see* **Gaibisso, Carlo et al.**
Tanaka, Hiroyuki *see* **Kikuchi, Yosuke et al.**
Tang, Chuan Yi *see* **Lu, Chin Lung et al.**, **2004a:05117** *and* **2004f:05178**
Tang, Le Le *see* **Liu, Xiang Hui[2] et al.**, **2004a:90007**
Tantau, Till *see* **Nickelsen, Arfst**
Tardos, Gábor *see* **Pach, János et al.**, **2004b:05193**
Täubig, Hanjo *see* **Holzapfel, Klaus et al.**, (**2004j:68002**)
Telle, Jan Arne *see* **Fiala, Jiří et al.**
Terrioux, Cyril *see* **Jégou, Philippe**, **2004d:68143**
Thilikos, Dimitris M. *see* **Fomin, Fedor V.**, (**2004a:68002**) *and* **Díaz, Josep et al.**
Thoma, L. *see* **Kohayakawa, Yoshiharu et al.**, **2004f:05176**
Thomassen, Carsten The chromatic number of a graph of girth 5 on a fixed surface. (English summary) **2004f:05064**
Ting, Hing-Fung *see* **Chan, Wun-Tat et al.**, **2004d:05183**
Tiskin, Alexandre All-pairs shortest paths computation in the BSP model. (English summary)
Tittmann, Peter *see* **Dohmen, Klaus et al.**, **2004j:05053**
Todinca, Ioan *see* **Bouchitté, Vincent**, **2004i:05149**
Togni, Olivier *see* **Kchikech, Mustapha**, (**2004k:68004**)
Tokuyama, Takeshi *see* **Tamaki, Hisao**, **2004b:05177**
Tollis, Ioannis G. *see* **Castelló, Rodolfo et al.**
Torán, Jacobo *see* **Köbler, Johannes**, **2004m:68096**
Tóth, Csaba D. *see* **Hoffmann, Michael**, **2004c:05114**
Tóth, Géza *see* **Pach, János et al.**, **2004b:05070** *and* **2004f:05046**
Toulouse, Sophie *see* **Monnot, Jérôme et al.**, **2004j:05119**
Traldi, Lorenzo A note on delta-wye-delta reductions of plane graphs. (English summary) **2004e:05190**
Trevisan, Luca *see* **Goldreich, Oded**, **2004i:68081** *and* **Chazelle, Bernard et al.**
Tripakis, Stavros *see* **Puri, Anuj**
Tsai, Chang-Hsiung (*with* Liang, Tyne; Hsu, Lih-Hsing; Lin, Men-Yang) Cycle embedding in faulty wrapped butterfly graphs. (English summary) **2004f:05096**
Tsin, Y. H. On finding an ear decomposition of an undirected graph distributively. (English summary)
Tsui, Ta-Shan *see* **Yeh, Yi-Shiung**
Tuza, Zsolt *see* **Kratochvíl, Jan et al.**
Urošević, Dragan (*with* Brimberg, Jack; Mladenović, Nenad) Variable neighborhood decomposition search for the edge weighted k-cardinality tree problem. (English summary) **2004m:90190**
Vaccaro, Ugo *see* **Gargano, Luisa et al.**
Vadhan, Salil *see* **Raz, Ran et al.**, **2004f:68031**
Vanherpe, Jean-Marie Some optimization problems on weak-bisplit graphs. (English summary)
— *see also* **Giakoumakis, Vassilis**, **2004c:05189**
Vazirani, Vijay V. *see* **Jain, Kamal et al.**, **2004h:90024**
Vempala, Santosh *see* **Cheriyan, Joseph et al.**, **2004g:68196**
Verástegui, Doroteo *see* **García, Ricardo et al.**, **2004b:68009**
Vetta, Adrian *see* **Cheriyan, Joseph et al.**, **2004g:68196**
Vigna, Sebastiano *see* **Boldi, Paolo**, **2004a:68006**
Vikas, Narayan Connected and loosely connected list homomorphisms. (English summary)
— Computational complexity of compaction to reflexive cycles. (English summary) **2004e:68043**
Vöge, Markus (*with* Guttmann, Anthony J.) On the number of hexagonal polyominoes. (English summary) **2004k:05063**
Voigt, Margit *see* **Kratochvíl, Jan et al.**
Volgenant, A. *see* **Duin, C. W. et al.**
Voß, Stefan *see* **Duin, C. W. et al.**
Vrt'o, Imrich *see* **Calamoneri, Tiziana et al.**, **2004h:05113** *and* **Shahrokhi, Farhad et al.**
Vu, Van H. *see* **Ngo, Hung Q.**, **2004g:05061** *and* (**2004a:68002**)
Vušković, Kristina *see* **Conforti, Michele et al.**, **2004e:05182**
(Wagner, Dorothea) *see* **Drawing graphs**, **2004b:05003**
Wagner, Israel A. *see* **Yanovski, Vladimir et al.**, **2004f:05180**
Wagner, Uli On the rectilinear crossing number of complete graphs. (English summary) (*see* **2004a:68002**)
Wainwright, Martin J. (*with* Jaakkola, Tommi S.; Willsky, Alan S.) Tree-based reparameterization framework for analysis of sum-product and related algorithms. (English summary) **2004d:68156**
Walshaw, Chris An exploration of multilevel combinatorial optimisation. (*see* **2004f:90010**)
Wan, Peng-Jun (*with* Alzoubi, Khaled M.; Frieder, Ophir) A simple heuristic for minimum connected dominating set in graphs. (English summary) **2004b:05195**
Wang, Fu-Hsing (*with* Wang, Yue-Li; Chang, Jou-Ming) Feedback vertex sets in star graphs. (English summary) **2004j:05121**
Wang, Jian Fang (*with* Li, Hai-zhu) Enumeration of maximum acyclic hypergraphs. (English summary) **2004h:05065**
Wang, Lusheng *see* **Cai, Mao Cheng et al.**, **2004k:05171**
Wang, Tian Ming *see* **Hou, Xinmin**, **2004b:05120**
Wang, Ying Qian Local most reliability of nearly regular complete bipartite graphs. (Chinese. English and Chinese summaries) **2004g:05143**
Wang, Yue-Li *see* **Wang, Fu-Hsing et al.**, **2004j:05121**
Wanka, Rolf Any load-balancing regimen for evolving tree computations on circulant graphs is asymptotically optimal. (English summary)
Weiskircher, René Drawing planar graphs. (*see* **2004b:05003**)
Wen, Jianjun *see* **Chen, Zhi-Zhong et al.**, **2004b:68188**
Wen, Xiaowei *see* **Yang, Huakang et al.**
de Werra, Dominique *see* **Blöchliger, Ivo**, **2004k:05080** *and* **Demange, Marc et al.**
Westbrook, Jeffery R. *see* **Buchsbaum, Adam L. et al.**, **2004j:68073**
(Whitesides, Sue H.) *see* **Symposium: Graph Drawing**
Williamson, David P. *see* **Jain, Kamal et al.**, **2004h:90024**
Willsky, Alan S. *see* **Wainwright, Martin J. et al.**, **2004d:68156**
Wocjan, Pawel (*with* Janzing, Dominik; Beth, Thomas) Treating the independent set problem by 2D Ising interactions with adiabatic quantum computing. (English summary)
Wood, David R. Lower bounds for the number of bends in three-dimensional orthogonal graph drawings. (English summary) **2004d:05063**
— Optimal three-dimensional orthogonal graph drawing in the general position model. (English summary) **2004d:05191**
Wu, Weili *see* **Cheng, Xiuzhen et al.**, **2004j:68196**
Wu, Xiaodong (*with* Chen, Danny Z.) Optimal net surface problems with applications. (English summary)
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68R15 Combinatorics on words

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Ladouceur, A. *see* **Brlek, Srečko, 2004f:68122**
Lenz, Daniel *see* **Damanik, David, 2004e:68085**
Léonard, Martine *see* **Groult, Richard et al., 2004j:68146**
Lepistö, A. *see* **Karhumäki, Juhani et al., 2004g:68136**
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Miyoshi, Naoto *see* **Sano, Shinya et al., 2004j:68147**
Moodie, Erica *see* **Currie, James D., 2004c:68084**
Mouchard, Laurent *see* **Groult, Richard et al., 2004j:68146**
Nowotka, Dirk *see* **Harju, Tero, 2004a:68119**; **2004m:68199** *and* **(2004j:68010)**
Paterson, M. S. *see* **Fraenkel, Aviezri S. et al., 2004k:68139**
Pirillo, Giuseppe *see* **Justin, Jacques, 2004a:68120**
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Ruskey, Frank *see* **Ellis, John A. et al., 2004c:68115**
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— On some generalizations of the Thue-Morse morphism. (English summary) **2004c:68118**
— Lyndon factorization of the Prouhet words. (English summary) **2004j:68148**
Shallit, Jeffrey *see* **Cautis, Sabin et al., 2004b:68126**
Shelton, Robert O. *see* **Currie, James D., 2004d:68128**
Silva, Pedro V. *see* **Mignosi, Filippo et al., 2004a:68122**
Simpson, R. Jamie *see* **Ellis, John A. et al., 2004c:68115** *and* **Fraenkel, Aviezri S. et al., 2004k:68139**
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Wang, Ming-wei *see* **Cautis, Sabin et al., 2004b:68126**
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Yazdani, Soroosh *see* **Cautis, Sabin et al., 2004b:68126**
Yeh, Yow-Tzong *see* **Hsiao, Hung Kuei et al., 2004i:68181**
Yu, Sheng *see* **Ilie, Lucian et al.**
Yu, Shyr-Shen *see* **Huang, Cheng Chih, 2004d:68130** *and* **Hsiao, Hung Kuei et al., 2004i:68181**
Zamboni, Luca Q. *see* **Jenkinson, Oliver, 2004h:68110** *and* **Tijdeman, R., 2004i:68182**
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Carton, Olivier *see* **Béal, Marie-Pierre, 2004c:68065**
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Gunderson, David S. *see* **Bisztriczky, Tibor et al., 2004j:52008**
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Harju, Tero Decision questions on integer matrices. (English summary) **2004b:03020**
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Ma, Bin *see* **Li, Ming[1] et al., 2004e:68124**
Madonia, Marina *see* **Anselmo, Marcella, (2004j:68010)**
Malik, Abid Muslim *see* **Stevens, Brett et al., 2004f:05002**
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(Miers, C. Robert) *see* **Sawada, Joe, 2004a:17004**

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Chu, Wesley W. *see* **Park, Sang Hyun**
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Dayanik, Aynur A. *see* **Macskassy, Sofus A. et al., 2004b:68135**
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Engelbrecht, Andries P. Sensitivity analysis for selective learning by feedforward neural networks. (English summary)
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Fagiuoli, Enrico *see* **Zaffalon, Marco**
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Fariña, F. *see* **Astrain, J. J. et al.**
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Foster, James A. *see* **Rylander, Bart**, (**2004i:68002**) *and* (**2004i:68002**)
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Fukuhara, Yoshihisa (*with* Takefuji, Yoshiyasu) Neural networks with broken symmetry. (Japanese. English and Japanese summaries)
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Geisler, Benjamin *see* **Haddawy, Peter et al.**
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Getoor, Lise (*with* Friedman, Nir; Koller, Daphne; Taskar, Benjamin) Learning probabilistic models of link structure. (English summary) **2004d:68137**
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Guan, Yu (*with* Xu, Bao Wen) Parallel genetic algorithms with schema migration. (Chinese. English and Chinese summaries)
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Gunetti, D. *see* **Bergadano, Francesco et al., 2004g:68140**
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Guo, Juan *see* **Ji, Mingjun et al.**
Guo, WenZhong *see* **Chen, GuoLong**
Gurvich, Vladimir *see* **Boros, Endre et al., 2004i:68184**
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Han, Zheng Zhi *see* **Zhang, Hao Ran**
Hao, Peiyi *see* **Yue, Shi Hong et al.**
Hara, Akira *see* **Kataoka, Hiroaki et al.**
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Hartono, Pitoyo (*with* Hashimoto, Shuji) Learning-data selection mechanism through neural networks ensemble. (English summary) (*see* **2004j:62010**)
Harvey, Neal *see* **Porter, Reid et al.**
Hashimoto, Shuji *see* **Hartono, Pitoyo**, (**2004j:62010**)
Haupt, Randy L. (*with* Haupt, Sue Ellen) ★ Practical genetic algorithms.
Haupt, Sue Ellen *see* **Haupt, Randy L.**
He, Han Gen *see* **Xu, Xin**
Heckendorn, Robert B. *see* **Whitley, Darrell et al.**
Hegland, Markus Data mining techniques. (English summary) **2004h:68113**
Herbrich, Ralf (*with* Williamson, Robert C.) Algorithmic luckiness. (English summary) **2004f:68127**
— *see also* **Schölkopf, Bernhard et al.**, (**2004j:68005**)
van den Herik, H. Jaap *see* **Smirnov, EvgeniĭN. et al., 2004m:68206**
Herrera-Viedma, Enrique *see* **Cordón, O. et al.**
Hirsh, Haym *see* **Macskassy, Sofus A. et al., 2004b:68135**
Hiura, Etsumasa *see* **Tanaka, Toshijiro, 2004i:68188**
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Hofmann, Reimar *see* **Haft, M. et al.**

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Horiyama, Takashi *see* **Boros, Endre et al., 2004j:68151**
Hou, Lishan *see* **Miao, Duoqian**
Hu, Wei Ming (*with* Xie, Dan; Tan, Tie Niu; Shen, Jun) A hierarchical self-organizing approach for learning the patterns of motion trajectories. (Chinese. English and Chinese summaries)
Huang, Chongfu (*with* Moraga, Claudio) A diffusion-neural-network for learning from small samples. (English summary) **2004k:68144**
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Hüllermeier, Eyke Possibilistic instance-based learning. (English summary) **2004m:68205**
Iancu, Laurentiu *see* **Ritter, Gerhard X. et al., 2004g:68147**
Ianni, Giovambattista *see* **Ben-Eliyahu-Zohary, Rachel et al., 2004g:68139**
Ibaraki, Toshihide *see* **Boros, Endre et al., 2004j:68151**
Igel, Christian (*with* Toussaint, Marc) Neutrality and self-adaptation. (English summary)
Ishibuchi, Hisao (*with* Yamamoto, Takashi) Comparison of heuristic criteria for fuzzy rule selection in classification problems. (English summary)
Janikow, Cezary Z. *see* **Chakraborty, Uday K., 2004i:68185**
Jeng, Jin-Tsong (*with* Chuang, Chen-Chia) Selection of initial structures with support vector regression for fuzzy neural networks. (English summary)
Ji, Ce (*with* Zhang, Hua Guang) Dynamic analysis of a class of generalized Hopfield neural networks with delays. (Chinese. English and Chinese summaries)
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Jiang, Yan-Huang (*with* Yang, Xue-Jun; Zhao, Qiang-Li) Constructing binary classification trees with high intelligibility. (English and Chinese summaries)
Jiao, Li Cheng *see* **Liu, Jing[1] et al.**
Jordan, Michael I. *see* **Bach, Francis R., 2004b:68132**
Kääriäinen, Matti *see* **Elomaa, Tapio, 2004m:68203**
Kak, Subhash *see* **Rajagopal, Pritam**
Kakade, Sham Optimizing average reward using discounted rewards. (English summary) (*see* **2004j:68005**)
Kakazu, Yukinori *see* **Furukawa, Masashi et al.**
Kalnishkan, Yu. A. (*with* Vyugin, Mikhail V.) Mixability and the existence of weak complexities. (English summary) (*see* **2004j:68006**)
Kameyama, Katsuro *see* **Yamasaki, Taiga et al.**
Kandola, Jaz *see* **Shawe-Taylor, John et al.**
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Kataoka, Yoshinori *see* **Yamasaki, Taiga et al.**
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Khachiyan, Leonid *see* **Boros, Endre et al., 2004i:68184**
Khot, Subhash *see* **Arora, Sanjeev, 2004j:68149**
Kinoshita, Masahiro *see* **Furukawa, Masashi et al.**
Kitakoshi, Daisuke (*with* Shioya, Hiroyuki; Kurihara, Masahito[1]) An improvement of reinforcement learning agent's policy by using a Bayesian network. (Japanese. English and Japanese summaries)
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Kohonen, Teuvo Self-organized maps of sensory events. (English summary) **2004g:68144**
Koller, Daphne *see* **Getoor, Lise et al., 2004d:68137**
de Korvin, André *see* **Yoon, Jeong-Mi**
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Kouris, Ioannis N. (*with* Makris, Christos H.; Tsakalidis, Athanasios K.) Efficient automatic discovery of 'hot' itemsets. (English summary)
Kovács, Emőd *see* **Hoffmann, Miklós**
Kramer, Stefan (*with* Widmer, Gerhard; Pfahringer, Bernhard; De Groeve, Michael) Prediction of ordinal classes using regression trees. (English summary)
Kruse, Rudolf *see* **Borgelt, Christian, 2004i:68183**
Kryzhanovskiĭ, B. V. (*with* Mikaèlyan, A. L.) An associative memory that is capable of recognizing strongly correlated patterns. (Russian)
Kudoh, Yoshimitsu (*with* Haraguchi, Makoto; Okubo, Yoshiaki) Data abstractions for decision tree induction. (English summary) **2004b:68134**
Kumar, Vijay[3] *see* **Blum, Avrim et al., (2004a:68002)**
Kurihara, Masahito[1] *see* **Kitakoshi, Daisuke et al.**
Kuroe, Yasuaki A model of complex-valued associative memories and its dynamics.
Lacker, Kevin *see* **Perkins, Simon et al.**
Lallich, Stéphane *see* **Sebban, Marc et al., 2004e:68089**
Langseth, Helge (*with* Nielsen, Thomas D.) Fusion of domain knowledge with data for structural learning in object oriented domains. (English summary)
Larrañaga, P. *see* **Peña, José M. et al.**
Lawrence, Richard D. A machine-learning approach to optimal bid pricing. (English summary) (*see* **2004b:90006**)
Lawry, Jonathan A new calculus for linguistic prototypes in data analysis. (English summary) (*see* **2004a:62013**)
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Lenze, Burkhard A backpropagation and initialization routine for hyperbolic sigma-pi neural networks. (English summary)
Łęski, Jacek M. Neuro-fuzzy system with learning tolerant to imprecision. (English summary)
Leslie, Christina *see* **Weston, Jason et al., 2004h:68116**
Leung, Wing Kai (*with* Winfield, Mike) A complexity analysis of the backpropagation algorithm. (English summary) (*see* **2004h:00017**)
— (*with* Winfield, Mike) Implementing backpropagation with momentum, periodic weight update and gradient descent on steepness. (English summary) (*see* **2004h:00017**)
Li, Chunguang (*with* Liao, Xiao Feng; Yu, Juebang) Complex-valued wavelet network. (English summary) **2004h:68114**
Li, Hong Lian (*with* Wang, Chun Hua; Yuan, Baozong) An improved SVM: NN-SVM. (Chinese. English and Chinese summaries)
Li, Min Qiang *see* **Yang, Hai Jun, 2004k:68145**
Li, Ning[3] *see* **Gao, Yang[2] et al.**
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Li, Xue-Yong *see* **Lin, Ya Ping**
Li, You Mei (*with* Xu, Zong Ben; Sun, Jian Yong) A hybrid algorithm for MIS problem. (Chinese. English and Chinese summaries)
Li, Yuan[2] (*with* Fang, Chen; Ouyang, Qi) Genetic algorithms in DNA computing: a solution to the maximal clique problem. (Chinese. Chinese summary)
Li, Zeng Zhi *see* **Liu, Pei Qi et al.**
Li, Zhengxue (*with* Wu, Wei[1]; Tian, Yulong) Convergence of an online gradient method for feedforward neural networks with stochastic inputs. (English summary)
Liang, Ji Ye *see* **Cao, Fei Long et al.**
Liao, Xiao Feng *see* **Li, Chunguang et al., 2004h:68114** *and* **Li, Xue Ming et al.**
Lim, Cheng Chew *see* **To, K. N.**
Lim, Darren T. *see* **Breimer, Eric A. et al., 2004m:68201**
Lin, Kuei-Ying *see* **Hong, Tzung-Pei et al.**
Lin, Ya Ping (*with* Li, Xue-Yong) Reinforcement learning based on local state feature learning and policy adjustment. (English summary)
Linares, Luis Jimenez *see* **Moreno-Garcia, Juan et al.**
Linder, Tamás Learning-theoretic methods in vector quantization. **2004f:68128**
— *see also* **Kégl, Balázs et al., (2004j:68005)**
Lipnickas, A. *see* **Verikas, A. et al., (2004f:68136)**
Liu, Da You[2] *see* **Guan, Ji Wen et al.**
Liu, Fang *see* **Liu, Jing[1] et al.**
Liu, Jing[1] (*with* Zhong, Wei Cai; Liu, Fang; Jiao, Li Cheng) Classification based on organizational coevolutionary algorithm. (Chinese. English and Chinese summaries)
Liu, Pei Qi (*with* Li, Zeng Zhi; Wang, Yun Lan; Zhu, Hai Ping; Zhao, Ying Liang) Algorithm for mining association rules based on reducing database. (Chinese. English and Chinese summaries)
Liu, Zhenqiu (*with* Bozdogan, Hamparsum) RBF neural networks for classification using new kernel functions. (English summary)
Long, Philip M. An upper bound on the sample complexity of PAC-learning halfspaces with respect to the uniform distribution. (English summary) **2004e:68087**
— *see also* **Ben-David, Shai et al., (2004j:68005)**
Lopes, Noel (*with* Ribeiro, Bernardete) An efficient gradient-based learning algorithm applied to neural networks with selective actuation neurons. (English summary)
López-Pujalte, C. *see* **Cordón, O. et al.**
Lörincz, András *see* **Szita, István et al., 2004a:68125**
Lozano, J. A. *see* **Peña, José M. et al.**
Lu, Xin *see* **Gao, Yang[2] et al.**
Lu, Xing *see* **Gao, Yang[2] et al.**
Lu, Yang (*with* Han, Jiang Hong; Wei, Zhen) A general judging and constructing method of SP functions in binary neural networks. (English and Chinese summaries)
Luaces, Oscar *see* **Ranilla, José et al.**
Lugosi, Gábor (*with* Vayatis, Nicolas) A consistent strategy for boosting algorithms. (English summary) (*see* **2004j:68006**)
— *see also* **Kégl, Balázs et al., (2004j:68005)**
Luque Rodríguez, María *see* **Cordón, O. et al.**
Ma, Run Nian (*with* Zhang, Qiang[5]; Xu, Jin[2]) Study of asymptotical behavior in discrete-time recurrent neural networks. (Chinese. English and Chinese summaries)
Macskassy, Sofus A. (*with* Hirsh, Haym; Banerjee, Arunava; Dayanik, Aynur A.) Converting numerical classification into text classification. (English summary) **2004b:68135**
Mahnig, Th. *see* **Mühlenbein, Heinz, 2004j:68154** *and* **2004j:68155**
Makino, Kazuhisa *see* **Boros, Endre et al., 2004i:68184** *and* **2004j:68151**
Makris, Christos H. *see* **Kouris, Ioannis N. et al.**
Malmqvist, K. *see* **Verikas, A. et al., (2004f:68136)**
Maloof, Marcus A. (*with* Michalski, Ryszard S.) Incremental learning with partial instance memory. (English summary)
Mangasarian, Olvi L. Data mining via support vector machines. (English summary) **2004j:68153**
— *see also* **Fung, Glenn M. et al., 2004m:68204**
Mannila, Heikki Local and global methods in data mining: basic techniques and open problems. (English summary)
Mannor, Shie (*with* Meir, Ron) Geometric bounds for generalization in boosting. (English summary) (*see* **2004j:68005**)
— (*with* Meir, Ron; Zhang, Tong[2]) The consistency of greedy algorithms for classification. (English summary) (*see* **2004j:68006**)
Mansour, Yishay *see* **Ben-David, Shai et al., (2004j:68005)**
Markin, M. I. Synthesis of neural approximators with a heterogeneous architecture. (Russian. Russian summary)
Martín-Vide, Carlos (*with* Pazos, Juan; Păun, Gheorghe; Rodríguez-Patón, Alfonso) A new class of symbolic abstract neural nets: tissue P systems. (English summary)

Maruoka, Akira *see* **Takimoto, Eiji, 2004b:68137**
Mastorakis, Nikos E. *see* **Gonos, Ioannis F. et al., 2004b:68133**
Meir, Ron *see* **Mannor, Shie et al., (2004j:68006)** *and* **(2004j:68005)**
Mendelson, Shahar Geometric methods in the analysis of Glivenko-Cantelli classes. (English summary) (*see* **2004j:68005**)
— *see also* **Bartlett, Peter L., 2004d:68134**
Merelo, J. J. *see* **Rivas, Víctor M. et al.**
Mesterharm, Chris Tracking linear-threshold concepts with Winnow. (English summary) (*see* **2004j:68006**)
Miao, Duoqian (*with* Hou, Lishan) A comparison of rough set methods and representative inductive learning algorithms. (English summary)
Michalski, Ryszard S. *see* **Maloof, Marcus A.**
Mikaèlyan, A. L. *see* **Kryzhanovskiĭ, B. V.**
Mikhienko, E. V. Logical specification of neural networks. (Russian. Russian summary)
Miyahara, Tetsuhiro *see* **Suzuki, Yusuke[2] et al., (2004j:68006)**
Miyamoto, John M. *see* **Haddawy, Peter et al.**
Mooney, Raymond J. *see* **Califf, Mary Elaine**
Moraga, Claudio *see* **Huang, Chongfu, 2004k:68144**
Moreno-Garcia, Juan (*with* Linares, Luis Jimenez; Castro-Schez, Jose Jesus; Benitez, Luis Rodriguez) A direct linguistic induction method for systems. (English summary)
Mühlenbein, Heinz (*with* Mahnig, Th.) Wright's equation and evolutionary computation. (English summary) **2004j:68154**
— (*with* Mahnig, Th.) Application of Wright's equation in evolutionary computation. (English summary) **2004j:68155**
Mukherjee, Sayan *see* **Peshkin, Leonid, (2004j:68005)**
Mukouchi, Yasuhito (*with* Sato, Masako) Refutable language learning with a neighbor system. (English summary) **2004d:68138**
Nagao, Tomoharu *see* **Kataoka, Hiroaki et al.** *and* **Tazawa, Kazuko**
Najarian, Kayvan *see* **Warren, D., 2004i:68189**
Nakamori, Yoshiteru *see* **Huang, Wei[5] et al.**
Nakamura, Masayuki (*with* Nomiya, Hiroki; Uehara, Kuniaki) Improvement of boosting algorithm by modifying the weighting rule. (English summary)
— (*with* Nomiya, Hiroki; Uehara, Kuniaki) Improvement of boosting algorithm by modifying weighting rule. (Japanese. English and Japanese summaries)
Nakano, Kaoru *see* **Yamasaki, Taiga et al.**
Nakano, Ryohei *see* **Saito, Kazumi**
Naruse, Keitaro *see* **Furukawa, Masashi et al.**
Navakauskas, Dalius Quick training algorithm for extra reduced size lattice-ladder multilayer perceptrons. (English and Lithuanian summaries)
Ndoundam, René (*with* Tchuente, Maurice) Exponential transient length generated by a neuronal recurrence equation. (English summary) **2004g:68145**
Neirotti, Juan Pablo (*with* Caticha, Nestor) Dynamics of the evolution of learning algorithms by selection. (English summary) **2004c:68120**
Neruda, Roman (*with* Štědrý, Arnošt; Drkošová, Jitka) Variants of learning algorithm based on Kolmogorov theorem. (English summary) (*see* **2004j:00014**)
Nielsen, Thomas D. *see* **Langseth, Helge**
Noble, William Stafford *see* **Weston, Jason et al., 2004h:68116**
Nock, Richard Inducing interpretable voting classifiers without trading accuracy for simplicity: theoretical results, approximation algorithms, and experiments. (English summary) **2004i:68187**
— Complexity in the case against accuracy estimation. (English summary) **2004e:68088**
— *see also* **Sebban, Marc et al., 2004e:68089**
Noguchi, Hironori (*with* Ohmori, Kenji) Multiple-partitioning of a weighted-graph using GA. (Japanese. English and Japanese summaries)
Nomiya, Hiroki *see* **Nakamura, Masayuki et al.**
Obaidat, M. S. (*with* Papadimitriou, G. I.; Pomportsis, A. S.) Efficient fast learning automata. (English summary)
Obradović, Zoran (*with* Srikumar, Rangarajan) Constructive neural networks design using genetic optimization. (English summary)
— (*with* Srikumar, Rangarajan) Parallelizing design of application tailored neural networks. (English summary)
Oh, Sung-Kwun (*with* Pedrycz, Witold; Park, Ho-Sung) Hybrid identification in fuzzy-neural networks. (English summary)
Ohmori, Kenji *see* **Noguchi, Hironori**
Okubo, Yoshiaki *see* **Kudoh, Yoshimitsu et al., 2004b:68134**
Olaru, Cristina (*with* Wehenkel, Louis) A complete fuzzy decision tree technique. (English summary)
— *see also* **Errata: "A complete fuzzy decision tree technique"**
Oprea, Mihaela M. Relational learning system. (English summary)
Ouyang, Qi *see* **Li, Yuan[2] et al.**
Pan, Zhi Song (*with* Chen, Song Can; Zhang, Dao Qiang) Generalized grey SOM and their performance evaluations. (Chinese. English and Chinese summaries)
Papadimitriou, G. I. *see* **Obaidat, M. S. et al.**
Park, Ho-Sung *see* **Oh, Sung-Kwun et al.**
Park, Sang Hyun (*with* Chu, Wesley W.) Discovering and matching elastic rules from sequence databases. (English summary)
Parker, Gary B. Learning control cycles for area coverage with cyclic genetic algorithms. (English summary) (*see* **2004i:68002**)
Păun, Gheorghe *see* **Martín-Vide, Carlos et al.**
Pazos, Juan *see* **Martín-Vide, Carlos et al.**
Pchelkin, Arthur Efficient exploration in reinforcement learning based on utile suffix memory. (English and Lithuanian summaries)
Pedrycz, Witold *see* **Oh, Sung-Kwun et al.**
Pei, Zheng *see* **Huang, Tian-min**
Pelikan, Martin (*with* Goldberg, David E.; Tsutsui, Shigeyoshi) Getting the best of both worlds: discrete and continuous genetic and evolutionary algorithms in concert. (English summary)
Peña, José M. (*with* Lozano, J. A.; Larrañaga, P.) Unsupervised learning of Bayesian networks via estimation of distribution algorithms: an application to gene expression data clustering. (English summary)
Perkins, Simon (*with* Lacker, Kevin; Theiler, James) Grafting: fast, incremental feature selection by gradient descent in function space. (English summary)
— *see also* **Porter, Reid et al.**
Perkins, Theodore J. (*with* Barto, Andrew G.) Lyapunov design for safe reinforcement learning. (English summary) **2004f:68129**
Perlich, Claudia (*with* Provost, Foster; Simonoff, Jeffrey S.) Tree induction vs. logistic regression: a learning-curve analysis. (English summary)
Peshkin, Leonid (*with* Mukherjee, Sayan) Bounds on sample size for policy evaluation in Markov environments. (English summary) (*see* **2004j:68005**)
Pfahringer, Bernhard *see* **Kramer, Stefan et al.**
Plagianakos, Vassilis P. (*with* Vrahatis, Michael N.) Parallel evolutionary training algorithms for "hardware-friendly" neural networks. (English summary)
Pomportsis, A. S. *see* **Obaidat, M. S. et al.**
Porter, Reid (*with* Harvey, Neal; Perkins, Simon; Theiler, James; Brumby, Steven; Bloch, Jeffrey; Gokhale, Maya; Szymanski, John) Optimizing digital hardware perceptrons for multi-spectral image classification. (English summary)
Provost, Foster *see* **Perlich, Claudia et al.**
Puuronen, Seppo (*with* Tsymbal, Alexey) Local feature selection with dynamic integration of classifiers. (English summary)
Raducanu, Bogdan (*with* Graña, Manuel; Albizuri, F. Xabier) Morphological scale spaces and associative morphological memories: results on robustness and practical applications. (English summary) **2004g:68146**
Raileanu, Laura Elena (*with* Stoffel, Kilian) Theoretical comparison between the Gini index and information gain criteria. (English summary)
Rajagopal, Pritam (*with* Kak, Subhash) Instantaneously trained neural networks with complex inputs.
Rakotomamonjy, Alain Variable selection using SVM-based criteria. (English summary)
Ralaivola, Liva *see* **d'Alché-Buc, Florence, (2004d:00014)**
Ranilla, José (*with* Luaces, Oscar; Bahamonde Rionda, Antonio) A heuristic for learning decision trees and pruning them into classification rules. (English summary)
Rätsch, Gunnar (*with* Warmuth, Manfred K.) Maximizing the margin with boosting. (English summary) (*see* **2004j:68006**)
Remshagen, Anja (*with* Truemper, Klaus) Learning in a compiler for MINSAT algorithms. (English summary)
Restificar, Angelo *see* **Haddawy, Peter et al.**
Ribeiro, Bernardete *see* **Lopes, Noel**
Riquelme, José C. (*with* Aguilar-Ruiz, Jesús S.; Del Valle, Carmelo) Supervised learning by means of accuracy-aware evolutionary algorithms. (English summary)
Ritter, Gerhard X. (*with* Urcid, Gonzalo; Iancu, Laurentiu) Reconstruction of patterns from noisy inputs using morphological associative memories. (English summary) **2004g:68147**
Rivas, Víctor M. (*with* Merelo, J. J.; Rojas, I.; Romero, G.; Castillo, P. A.; Carpio, J.) Evolving two-dimensional fuzzy systems. (English summary)
Rodríguez-Patón, Alfonso *see* **Martín-Vide, Carlos et al.**
Rojas, I. *see* **Rivas, Víctor M. et al.**
Romano, Giovanni[2] *see* **Carpineto, Claudio**
Romero, G. *see* **Rivas, Víctor M. et al.**
Rothlauf, Franz ★ Representations for genetic and evolutionary algorithms. **2004a:68124**
Rousu, Juho *see* **Elomaa, Tapio, 2004i:68186**
Roweis, Sam T. *see* **Saul, Lawrence K.**
Rudakov, K. V. (*with* Chekhovich, Yu. V.) An algebraic approach to the problem of the synthesis of learning algorithms for trend identification. (Russian)
Rudenko, O. G. Projection learning algorithms for artificial neural networks. (Russian. English summary)
Rudra, Atri *see* **Blum, Avrim et al., (2004a:68002)**
Rylander, Bart (*with* Foster, James A.) Computational complexity and genetic algorithms. (English summary) (*see* **2004i:68002**)
— (*with* Foster, James A.) Genetic algorithms, and hardness. (English summary) (*see* **2004i:68002**)
Sai, Ying (*with* Yao, Y. Y.) Analyzing and mining ordered information tables. (English summary)
Saito, Kazumi (*with* Nakano, Ryohei) Squared penalty consistent with linear transformations of variables. (Japanese. English and Japanese summaries)
Sakakibara, Yasubumi DNA-based algorithms for learning Boolean formulae. (English summary) **2004g:68148**
Sato, Masako *see* **Mukouchi, Yasuhito, 2004d:68138**
Saul, Lawrence K. (*with* Roweis, Sam T.) Think globally, fit locally: unsupervised learning of low dimensional manifolds. (English summary)
Savinov, Alexandr A. An efficient algorithm for mining interesting set-valued rules. (English summary)
Schapire, Robert E. The boosting approach to machine learning: an overview. (English summary) (*see* **2004d:62006**)
Scheffer, Tobias (*with* Wrobel, Stefan) Finding the most interesting patterns in a database quickly by using sequential sampling. (English summary) **2004d:68139**
Schmitt, Lothar M. Theory of genetic algorithms. II. Models for genetic operators over the string-tensor representation of populations and convergence to global optima for arbitrary fitness function under scaling. (English summary) **2004j:68156**
Schmitt, Michael Radial basis function neural networks have superlinear VC dimension. (English summary) (*see* **2004j:68005**)
— RBF neural networks and Descartes' rule of signs. (English summary)
Schmitt, Niels *see* **Forster, Jürgen et al., (2004j:68005)**
Schölkopf, Bernhard (*with* Herbrich, Ralf; Smola, Alexander J.) A generalized representer theorem. (English summary) (*see* **2004j:68005**)
— *see also* **Weston, Jason et al., 2004h:68116**
Sebag, Michèle Genetic programming applied to model identification. (English summary) (*see* **2004a:62011**)
Sebban, Marc (*with* Nock, Richard; Lallich, Stéphane) Stopping criterion for boosting-based data reduction techniques: from binary to multiclass problems. (English summary) **2004e:68089**
Şerban, Gabriela A new real time learning algorithm. (English summary)

Servedio, Rocco A. Smooth boosting and learning with malicious noise. (English summary) (*see* **2004j:68005**)
Shao, Zhiqiong *see* **Wu, Wei[1]**
Shawe-Taylor, John (*with* Williams, Chris; Cristianini, Nello; Kandola, Jaz) On the eigenspectrum of the Gram matrix and its relationship to the operator eigenspectrum. (English summary)
Shen, Jun *see* **Hu, Wei Ming et al.**
Shi, Han Min *see* **Zhang, De Xian**
Shibzukhov, Z. M. A recurrence method for constructive learning of algebraic $\Sigma\Pi$-neurons and $\Sigma\Pi$-neural modules. (Russian)
— A recurrent method for the constructive learning of some networks of algebraic $\Sigma\Pi$-neurons and $\Sigma\Pi$-neuromodules. (Russian. Russian summary) **2004h:68115**
Shioya, Hiroyuki *see* **Kitakoshi, Daisuke et al.**
Shoudai, Takayoshi *see* **Suzuki, Yusuke[2] et al.**, (**2004j:68006**)
Simon, Hans Ulrich *see* **Ben-David, Shai et al.**, (**2004j:68005**) *and* **Forster, Jürgen et al.**, (**2004j:68005**)
Simonoff, Jeffrey S. *see* **Perlich, Claudia et al.**
Singer, Yoram *see* **Crammer, Koby**, (**2004j:68005**)
Singh, Yogesh (*with* Chandra, Pravin) A class of $+1$ sigmoidal activation functions for FFANNs. (English summary)
Siskind, Jeffrey Mark *see* **Fern, Alan et al.**, **2004d:68136**
Smirnov, EvgeniĭN. (*with* van den Herik, H. Jaap; Sprinkhuizen-Kuyper, I. G.) A unifying version-space representation. (English summary) **2004m:68206**
Smola, Alexander J. *see* **Fung, Glenn M. et al.**, **2004m:68204**; **Schölkopf, Bernhard et al.**, (**2004j:68005**) *and* **Kivinen, Jyrki et al.**
Spiegel, Daniel (*with* Sudkamp, Thomas) Sparse data in the evolutionary generation of fuzzy models. (English summary)
Sprinkhuizen-Kuyper, I. G. *see* **Smirnov, EvgeniĭN. et al.**, **2004m:68206**
Srebro, Nathan Maximum likelihood bounded tree-width Markov networks. (English summary) **2004b:68136**
Srikumar, Rangarajan *see* **Obradović, Zoran**
Štědrý, Arnošt *see* **Neruda, Roman et al.**, (**2004j:00014**)
Steidl, Gabriele *see* **Strauß, Daniel J.**, **2004f:68130**
Stevens, Soraya *see* **Whitley, Darrell et al.**
Stoffel, Kilian *see* **Raileanu, Laura Elena**
Stolzmann, C. Wolfgang *see* **Butz, A. Martin V. et al.**, **2004h:68112**
Strauß, Daniel J. (*with* Steidl, Gabriele) Hybrid wavelet-support vector classification of waveforms. (English summary) **2004f:68130**
Sudkamp, Thomas *see* **Spiegel, Daniel**
Sun, Hong Wei (*with* Tian, Xin Guang; Li, Xue Chun; Zhang, Er Yang) An improved anomaly detection model for IDS. (Chinese. English and Chinese summaries)
Sun, Jian Yong *see* **Li, You Mei et al.**
Sussner, Peter Generalizing operations of binary autoassociative morphological memories using fuzzy set theory. (English summary) **2004f:68131**
Suzuki, Yusuke[2] (*with* Shoudai, Takayoshi; Uchida, Tomoyuki; Miyahara, Tetsuhiro) Ordered term tree languages which are polynomial time inductively inferable from positive data. (English summary)
— (*with* Akanuma, Ryuta; Shoudai, Takayoshi; Miyahara, Tetsuhiro; Uchida, Tomoyuki) Polynomial time inductive inference of ordered tree patterns with internal structured variables from positive data. (English summary) (*see* **2004j:68006**)
Swamy, M. N. S. *see* **Gonos, Ioannis F. et al.**, **2004b:68133**
Szita, István (*with* Takács, Bálint; Lőrincz, András) ε-MDPs: learning in varying environments. (English summary) **2004a:68125**
Szymanski, John *see* **Porter, Reid et al.**
Takács, Bálint *see* **Szita, István et al.**, **2004a:68125**
Takefuji, Yoshiyasu *see* **Fukuhara, Yoshihisa**
Takimoto, Eiji (*with* Warmuth, Manfred K.) Path kernels and multiplicative updates. (English summary) (*see* **2004j:68006**)
— (*with* Maruoka, Akira) Top-down decision tree learning as information based boosting. (English summary) **2004b:68137**
Tan, Tie Niu *see* **Hu, Wei Ming et al.**
Tanaka, Toshijiro (*with* Hiura, Etsumasa) Computational abilities of a chaotic neural network. (English summary) **2004i:68188**
Tang, Huanwen *see* **Ji, Mingjun et al.**
Taskar, Benjamin *see* **Getoor, Lise et al.**, **2004d:68137**
Tazawa, Kazuko (*with* Nagao, Tomoharu) Behavior control of an autonomous agent using flexibly connected neural network; FCN. (Japanese. English and Japanese summaries)
Tchuente, Maurice *see* **Ndoundam, René**, **2004g:68145**
Teh, Yee Whye *see* **Welling, Max**, **2004a:68126**
Teng, Ching-Cheng *see* **Wang, Ying-Chung**
Tennenholtz, Moshe *see* **Brafman, Ronen I.**, **2004c:68119**
Theiler, James *see* **Porter, Reid et al.** *and* **Perkins, Simon et al.**
Tian, Xin Guang *see* **Sun, Hong Wei et al.**
Tian, Yulong *see* **Li, Zhengxue et al.**
Ting, Kai Ming (*with* Zheng, Zijian) A study of AdaBoost with naive Bayesian classifiers: weakness and improvement. (English summary) **2004j:68157**
Tipping, Michael E. *see* **Weston, Jason et al.**
Tishby, Naftali *see* **Globerson, Amir**
To, K. N. (*with* Lim, Cheng Chew) Perturbation to enhance support vector machines for classification. (English summary)
Torkkola, Kari Feature extraction by non-parametric mutual information maximization. (English summary)
Torras i Genís, Carme Neural computing increases robot adaptivity. (English summary)
Toussaint, Marc *see* **Igel, Christian**
Tresp, V. *see* **Haft, M. et al.**
Troya, J. M. *see* **Cotta, Carlos**
Truemper, Klaus *see* **Remshagen, Anja**
Tsakalidis, Athanasios K. *see* **Kouris, Ioannis N. et al.**
Tsutsui, Shigeyoshi *see* **Pelikan, Martin et al.**
Tsymbal, Alexey *see* **Puuronen, Seppo**
Uchida, Tomoyuki *see* **Suzuki, Yusuke[2] et al.**, (**2004j:68006**)
Uehara, Kuniaki *see* **Nakamura, Masayuki et al.**
Urcid, Gonzalo *see* **Ritter, Gerhard X. et al.**, **2004g:68147**
(Uthmann, Thomas) *see* **Dauscher, Peter**, **2004k:68143**
Vayatis, Nicolas *see* **Lugosi, Gábor**, (**2004j:68006**)
Verikas, A. (*with* Lipnickas, A.; Bacauskiene, M.; Malmqvist, K.) Fusing neural networks through fuzzy integration. (English summary) (*see* **2004f:68136**)
Villadangos, J. *see* **Astrain, J. J. et al.**
Vinokurov, A. V. *see* **Kostenko, V. A.**
Vrahatis, Michael N. *see* **Plagianakos, Vassilis P.**
Vyugin, Mikhail V. *see* **Kalnishkan, Yu. A.**, (**2004j:68006**)
Wang, Chun Hua *see* **Li, Hong Lian et al.**
Wang, Guoyin *see* **Zheng, Zheng**
Wang, Jue (*with* Zhao, Min[2]; Zhao, Kai[1]; Han, Suqing) Multilevel data summarization from information systems: a "rule + exception" approach. (English summary) **2004f:68132**
Wang, Qing Yi *see* **Zou, Xiang[2] et al.**
Wang, Shou Yang *see* **Huang, Wei[5] et al.**
Wang, Shyue-Liang *see* **Hong, Tzung-Pei et al.**
Wang, Ying-Chung (*with* Teng, Ching-Cheng) Output recurrent fuzzy neural networks based model reference control for unknown nonlinear systems. (English summary)
Wang, Yun Lan *see* **Liu, Pei Qi et al.**
Warmuth, Manfred K. *see* **Bousquet, Olivier**, **2004d:68135**; (**2004j:68005**); **Takimoto, Eiji**, (**2004j:68006**) *and* **Rätsch, Gunnar**, (**2004j:68006**)
Warren, D. (*with* Najarian, Kayvan) Learning theory applied to sigmoid network classification of protein biological function using primary protein structure. (English summary) **2004i:68189**
Watanabe, Michiko *see* **Furukawa, Masashi et al.**
Wegener, Ingo Theoretical aspects of evolutionary algorithms. (English summary)
Wehenkel, Louis *see* **Olaru, Cristina** *and* **Errata: "A complete fuzzy decision tree technique"**
Wei, Zhen *see* **Lu, Yang et al.**
Welling, Max (*with* Teh, Yee Whye) Approximate inference in Boltzmann machines. (English summary) **2004a:68126**
Weston, Jason (*with* Schölkopf, Bernhard; Eskin, Eleazar; Leslie, Christina; Noble, William Stafford) Dealing with large diagonals in kernel matrices. (English summary) **2004h:68116**
— (*with* Elisseeff, André; Schölkopf, Bernhard; Tipping, Michael E.) Use of the zero-norm with linear models and kernel methods. (English summary)
Whitley, Darrell (*with* Heckendorn, Robert B.; Stevens, Soraya) Hyperplane ranking, nonlinearity and the simple genetic algorithm. (English summary)
Widmer, Gerhard *see* **Kramer, Stefan et al.**
Williams, Chris *see* **Shawe-Taylor, John et al.**
Williamson, Robert C. *see* **Herbrich, Ralf**, **2004f:68127** *and* **Kivinen, Jyrki et al.**
Wilson, Stewart W. Classifiers that approximate functions. (English summary)
Winfield, Mike *see* **Leung, Wing Kai**, (**2004h:00017**) *and* (**2004h:00017**)
Wojna, Arkadiusz *see* **Góra, Grzegorz**, **2004g:68142**
Wojnarski, Marcin LTF-C: architecture, training algorithm and applications of new neural classifier. (English summary) **2004f:68133**
Wrobel, Stefan *see* **Scheffer, Tobias**, **2004d:68139**
Wu, Felix *see* **Blum, Avrim et al.**, (**2004a:68002**)
Wu, Wei[1] (*with* Shao, Zhiqiong) Convergence of online gradient methods for continuous perceptrons with linearly separable training patterns. (English summary)
— *see also* **Li, Zhengxue et al.**
Xie, Dan *see* **Hu, Wei Ming et al.**
Xu, Bao Wen *see* **Guan, Yu**
Xu, Jin[2] *see* **Ma, Run Nian et al.**
Xu, Ping[2] *see* **Zhang, Mei**
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Xu, Xin (*with* He, Han Gen) A gradient algorithm for neural-network-based reinforcement learning. (Chinese. English and Chinese summaries)
Xu, Zong Ben *see* **Li, You Mei et al.** *and* **Cao, Fei Long et al.**
Yagiura, Mutsunori *see* **Boros, Endre et al.**, **2004j:68151**
Yamamoto, Takashi *see* **Ishibuchi, Hisao**
Yamasaki, Taiga (*with* Kataoka, Yoshinori; Kameyama, Katsuro; Nakano, Kaoru) Neural networks handling sequential patterns. (English summary)
Yang, Hai Jun (*with* Li, Min Qiang) Schemata theorem and building blocks in evolutionary algorithms. (Chinese. English and Chinese summaries)
— (*with* Li, Min Qiang) Form invariance of schema and exact schema theorem. (English summary) **2004k:68145**
Yang, Hui (*with* Kang, Li-shan; Chen, Yu Ping) A gene-based genetic algorithm for TSP. (Chinese. English and Chinese summaries)
Yang, Jing Yu *see* **Xu, Wei Hong et al.**
Yang, Xue-Jun *see* **Jiang, Yan-Huang et al.**
Yao, Y. Y. *see* **Sai, Ying**
Ye, You Pei *see* **Xu, Wei Hong et al.**
Yoon, Jeong-Mi (*with* de Korvin, André) Evaluating a forest model using the fuzzy rule matrix. (English summary)
Yu, Juebang *see* **Li, Chunguang et al.**, **2004h:68114**
Yu, Lean *see* **Huang, Wei[5] et al.**
Yuan, Baozong *see* **Li, Hong Lian et al.**
Yuan, Sen Miao *see* **Zhang, Yong**
Yue, Shi Hong (*with* Li, Ping[4]; Hao, Peiyi) SVM classification: its contents and challenges. (English summary)
Zaffalon, Marco (*with* Fagiuoli, Enrico) Tree-based credal networks for classification. (English summary)
Zarco, C. *see* **Cordón, O. et al.**
Zhang, Dao Qiang *see* **Pan, Zhi Song et al.**
Zhang, De Xian (*with* Shi, Han Min) Accelerating neural network learning based on the curved surface shape errors of network output functions. (Chinese. English and Chinese

summaries)
Zhang, Dong[2] (*with* Bai, Xiao-Li; Cai, Kai-Yuan) Extended neuro-fuzzy models of multilayer perceptrons. (English summary)
Zhang, Er Yang *see* **Sun, Hong Wei et al.**
Zhang, Hao Ran (*with* Han, Zheng Zhi) An improved sequential minimal optimization learning algorithm for regression support vector machine. (Chinese. English and Chinese summaries)
Zhang, Hua Guang *see* **Ji, Ce**
Zhang, Mei (*with* Xu, Ping[2]) Characters of core elements and their applications to decision trees. (Chinese. English and Chinese summaries)
Zhang, Qiang[5] *see* **Ma, Run Nian et al.**
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— *see also* **Mannor, Shie et al.**, (**2004j:68006**)
Zhang, Wei *see* **Zou, Xiang**[2] **et al.**
Zhang, Yi[1] Global exponential convergence of recurrent neural networks with variable delays. (English summary) **2004j:68158**
Zhang, Yong (*with* Yuan, Sen Miao) A new and efficient mining algorithm for multiple-level association rules. (Chinese. English and Chinese summaries)
Zhao, Kai[1] *see* **Wang, Jue et al.**, **2004f:68132**
Zhao, Min[2] *see* **Wang, Jue et al.**, **2004f:68132**
Zhao, Qiang-Li *see* **Jiang, Yan-Huang et al.**
Zhao, Ying Liang *see* **Liu, Pei Qi et al.**
Zheng, Zheng (*with* Wang, Guoyin) RRIA: a rough set and rule tree based incremental knowledge acquisition algorithm. (English summary)
Zheng, Zijian *see* **Ting, Kai Ming**, **2004j:68157**
Zhong, Wei Cai *see* **Liu, Jing**[1] **et al.**
Zhou, Shang Bo *see* **Li, Xue Ming et al.**
Zhou, Yong Quan Polynomial function recurrent neural networks model and apply. (Chinese. English and Chinese summaries)
Zhu, Hai Ping *see* **Liu, Pei Qi et al.**
Zilles, Sandra Merging uniform inductive learners. (English summary) (*see* **2004j:68006**)
Zou, Xiang[2] (*with* Zhang, Wei; Cai, Qing Sheng; Wang, Qing Yi) An efficient incremental updating algorithm for discovering sequential patterns in a large database. (Chinese. English and Chinese summaries)
Zurita, J. M. *see* **Carmona, Pablo et al.**
Zwick, Martin *see* **Al-Rabadi, Anas N.**

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Errata:
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Items with secondary classifications in 68T05

Abbott, L. F. *see* **Dayan, Peter**, **2004g:92008**
Abdeddaïm, Saïd *see* **Pelfrêne, Johann et al.**
(Abe, Naoki) *see* **Algorithmic learning theory**
Adam, Bao-Ling *see* **Yasui, Yutaka et al.**
Adamy, Jürgen (*with* Kempf, Roland) Regularity and chaos in recurrent fuzzy systems. (English summary) **2004m:68233**
— *see also* **Kempf, Roland**, **2004k:68156**
Adorni, Giovanni (*with* Cagnoni, Stefano; Gori, Marco) Adaptive graphic pattern recognition: foundations and perspectives. (English summary) (*see* **2004f:68136**)
Afraimovich, Valentin S. *see* **Rabinovich, Mikhail I. et al.**, (**2004j:37003**)
Akaho, Shotaro *see* **Tsuda, Koji et al.**
Akutsu, Tatsuya (*with* Bannai, Hideo; Miyano, Satoru; Ott, Sascha) On the complexity of deriving position specific score matrices from examples. (English summary)
— (*with* Ott, Sascha) Inferring a union of halfspaces from examples. (English summary)
— (*with* Miyano, Satoru; Kuhara, Satoru) A simple greedy algorithm for finding functional relations: efficient implementation and average case analysis. (English summary) **2004a:68018**
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Albrecht, Andreas (*with* Wong, Chak Kuen) Approximation of Boolean functions by local search. (English summary) **2004k:90073**
(Albrecht, Rudolf F.) *see* **Artificial neural nets and genetic algorithms**, **2004j:68003**
Alemdar, Nedim M. *see* **Sirakaya, Sibel**, **2004i:91039**
Alexandre, Joël *see* **Pelfrêne, Johann et al.**
Al-Yakoob, Salem *see* **Smaoui, Nejib**, **2004e:80011**
Amato, Paolo *see* **Montagna, Guido et al.**
Anderson, Charles H. *see* **Eliasmith, Chris**, **2004e:93007**
Angiulli, Fabrizio (*with* Ben-Eliyahu-Zohary, Rachel; Ianni, Giovambattista; Palopoli, Luigi) Computational properties of metaquerying problems. (English summary) **2004f:68044**
Antos, András (*with* Kégl, Balázs; Linder, Tamás; Lugosi, Gábor) Data-dependent margin-based generalization bounds for classification. (English summary) **2004c:62140**
Aracena, Julio (*with* Goles Ch., Eric) Complexity of perceptron recognition for a class of geometric patterns. (English summary) **2004c:68121**
Arbib, Michael A. Towards a neurally-inspired computer architecture. (English summary)
Arimura, Hiroki Efficient text mining with optimized pattern discovery. (English summary)
— *see also* **Sakamoto, Hiroshi**[7] **et al.**, **2004b:68077**
Asai, Kiyoshi[2] *see* **Tsuda, Koji et al.**
Ashlock, Dan (*with* Golden, Jim) Chaos automata: iterated function systems with memory. (English summary) **2004g:92021**
Assis, Carlos A. G. *see* **Barbosa, Valmir C. et al.**
Atanassov, Krassimir T. *see* **Mengov, G. et al.**
(Ayesh, Aladdin) *see* **Special Issue: Perception and emotion based reasoning**
Bäck, Thomas (*with* Kok, Joost N.; Rozenberg, Grzegorz) Evolutionary computation as a paradigm for DNA-based computing. (English summary) (*see* **2004i:68003**)
Bagirov, Adil M. (*with* Rubinov, Aleksandr M.; Sukhorukova, N. V.; Yearwood, John) Unsupervised and supervised data classification via nonsmooth and global optimization. (English summary) **2004e:90080**
Bain, Michael E. *see* **Srinivasan, Ashwin et al.**
Bakalis, Olympia Lilly Modeling fractal patterns with genetic algorithm solutions to a variant of the inverse problem for iterated function systems (IFS). (*see* **2004i:00015**)
Bakoev, Valentin P. Generating and identification of monotone Boolean functions. (English and Bulgarian summaries) **2004h:68053**
Balcázar, José L. (*with* Castro, Jorge; Guijarro, David) A general dimension for exact learning. (English summary) (*see* **2004j:68005**)
Bannai, Hideo *see* **Akutsu, Tatsuya et al.**
Barbosa, Helio J. C. (*with* Lemonge, Afonso C. C.) A new adaptive penalty scheme for genetic algorithms. (English summary)
Barbosa, Valmir C. (*with* Assis, Carlos A. G.; Do Nascimento, Josina O.) Two novel evolutionary formulations of the graph coloring problem. (English summary)
Bargiela, Andrzej (*with* Pedrycz, Witold) From numbers to information granules: a study in unsupervised learning and feature analysis. (English summary) (*see* **2004f:68136**)
Barrett, Christopher L. (*with* Hunt, Harry B., III; Marathe, Madhav V.; Ravi, S. S.; Rosenkrantz, Daniel J.; Stearns, Richard E.) Reachability problems for sequential dynamical systems with threshold functions. (English summary) **2004b:68061**
Bean, James C. *see* **Lin, Zong-Zhi et al.**
Becerra, Victor M. *see* **Galvão, Roberto K. H. et al.**
Beielstein, Thomas (*with* Mehnen, Jörn; Schönemann, Lutz; Schwefel, Hans-Paul; Surmann, Tobias; Weinert, Klaus; Wiesmann, Dirk) Design of evolutionary algorithms and applications in surface reconstruction. (English summary) (*see* **2004a:00018**)
Ben-David, Shai (*with* Eiron, Nadav; Simon, Hans Ulrich) Limitations of learning via embeddings in Euclidean half spaces. (English summary) **2004f:68048**
Ben-Eliyahu-Zohary, Rachel *see* **Angiulli, Fabrizio et al.**, **2004f:68044**
Bengio, Y. *see* **Dugas, C. et al.**, (**2004k:62016**)
Ben-Hur, Asa (*with* Siegelmann, Hava T.) Computation in gene networks. (English summary) **2004k:68042**
Bhattacharyya, Chiranjib *see* **Lanckriet, Gert R. G. et al.**, **2004h:62111**
Bodon, Ferenc (*with* Rónyai, Lajos) Trie: an alternative data structure for data mining algorithms. (English summary)
Bohn, Christian-Arved A neural network based finite element grid generation algorithm for the simulation of light propagation. (English summary)
Bohossian, Vasken (*with* Bruck, Jehoshua) Algebraic techniques for constructing minimal weight threshold functions. (English summary) **2004j:68137**
Bohun, C. Sean (*with* Carruthers, S. J.; Edwards, Roderick; Illner, Reinhard) Generic emergence of cognitive behaviour in self-generating neural networks. (English summary) **2004e:92003**
Börger, Egon (*with* Sona, Diego) A neural abstract machine. (English summary) **2004g:68031**
Borne, Pierre *see* **Mesghouni, Khaled et al.**
Bousquet, Olivier New approaches to statistical learning theory. (English summary) **2004f:62087**
Braynov, Sviatoslav (*with* Sandholm, Tuomas) Contracting with uncertain level of trust. (English summary) **2004b:91119**
Breiman, Leo Population theory for boosting ensembles. (English summary) **2004m:62144**
Bruck, Jehoshua *see* **Bohossian, Vasken**, **2004j:68137**
Bruni, Renato (*with* Sassano, Antonio) A complete adaptive algorithm for propositional satisfiability. (English summary) **2004d:03021**
Bshouty, Nader H. (*with* Gavinsky, Dmitry) On boosting with optimal poly-bounded distributions. (English summary) (*see* **2004j:68005**)
— (*with* Eiron, Nadav) Learning monotone DNF from a teacher that almost does not answer membership queries. (English summary) (*see* **2004j:68005**)
— (*with* Owshanko, Avi) Learning regular sets with an incomplete membership oracle. (English summary) (*see* **2004j:68005**)
— (*with* Gavinsky, Dmitry) On boosting with polynomially bounded distributions. (English summary) **2004f:68049**
— (*with* Eiron, Nadav; Kushilevitz, Eyal) PAC learning with nasty noise. (English summary) **2004a:68048**
— (*with* Jackson, Jeffrey C.; Tamon, Christino) Uniform-distribution attribute noise learnability. (English summary) **2004h:68060**
— (*with* Eiron, Nadav) Learning monotone DNF from a teacher that almost does not answer membership queries. (English summary) **2004a:68049**
Cagnoni, Stefano *see* **Adorni, Giovanni et al.**, (**2004f:68136**)
Calado, João M. F. *see* **Galvão, Roberto K. H. et al.**
Camargo, Heloisa *see* **Pedrycz, Witold**, **2004k:68128**
de Campos Ibáñez, Luis Miguel (*with* Fernández-Luna, Juan M.; Huete, Juan F.) Improving the efficiency of the Bayesian network retrieval model by reducing relationships between terms. (English summary)
Cancelliere, R. Data processing and feature screening in function approximation: an application to neural networks. (English summary)
Cao, Fei Long (*with* Li, You Mei; Xu, Zong Ben) L^p simultaneous approximation by neural networks with one hidden layer. (English and Chinese summaries)
Cao, Huai Xin *see* **Ye, Wei et al.**, **2004j:92010**
Cao, Jin De (*with* Wang, Jun[3]) Global asymptotic stability of a general class of recurrent neural networks with time-varying delays. (English summary) **2004b:34183**
Cao, Li Ping *see* **Liu, Yi Guang et al.**
Carruthers, S. J. *see* **Bohun, C. Sean et al.**, **2004e:92003**
Case, John (*with* Jain, Sanjay[1]; Stephan, Frank; Wiehagen, Rolf) Robust learning—rich and poor. (English summary) (*see* **2004j:68005**)
Castro, Jorge *see* **Balcázar, José L. et al.**, (**2004j:68005**)
Cesa-Bianchi, Nicolò (*with* Lugosi, Gábor) Potential-based algorithms in on-line

prediction and game theory. (English summary) (*see* **2004j:68005**)
— Universal prediction. **2004c:62189**
(Chakraborty, Uday K.) *see* **Evolutionary computation**
Chapados, N. *see* **Dugas, C. et al.**, (**2004k:62016**)
Chawla, Deepak (*with* Li, Lin[3]; Scott, Stephen D.) Efficiently approximating weighted sums with exponentially many terms. (English summary) (*see* **2004j:68005**)
Chen, Danmei *see* **Wu, Si**, (**2004m:65003**)
Chen, De Chang (*with* Liu, Jian) Averaging weak classifiers. (English summary) (*see* **2004j:62010**)
Chen, Huo Wang *see* **Xie, Tao et al.**
Chen, Jie *see* **Lu, De Lin et al.**
Chen, Liang[4] (*with* Tokuda, Naoyuki; Nagai, Akira) A new differential LSI space-based probabilistic document classifier. (English summary)
Cheung, Dennis (*with* Cucker, Felipe) Learning from rounded-off data. (English summary) **2004b:68073**
Choi, Ben Inductive inference by using information compression. (English summary) **2004h:68061**
Christmann, Andreas Classification based on the support vector machine and on regression depth. (English summary) (*see* **2004d:62007**)
Chuang, Chen-Chia *see* **Jeng, Jin-Tsong et al.**
Claussen, Jens Christian Winner-relaxing and winner-enhancing Kohonen maps: maximal mutual information from enhancing the winner. (English summary)
Cohen, Robin *see* **Tran, Thomas**, **2004b:91082**
Cohen, Shimon (*with* Intrator, Nathan) Automatic model selection in a hybrid perceptron/radial network. (English summary) (*see* **2004j:62010**)
Cordón, O. (*with* Herrera, Francisco; Zwir, I.) A hierarchical knowledge-based environment for linguistic modeling: models and iterative methodology. (English summary)
— *see also* **Genetic fuzzy systems: new developments**
Csato, Lehel (*with* Opper, Manfred; Winther, Ole) Tractable inference for probabilistic data models. (English summary)
Cucker, Felipe *see* **Cheung, Dennis**, **2004b:68073**
Curry, B. (*with* Morgan, P. H.) Evaluating Kohonen's learning rule: an approach through genetic algorithms. (English summary)
Cusano, Claudio (*with* La Torre, Davide) On support vector machines for data classification. (English summary) (*see* **2004g:90008**)
Damaschke, Peter On parallel attribute-efficient learning. (English summary) **2004d:68059**
Dasgupta, Sanjoy (*with* Pavlov, Elan; Singer, Yoram) An efficient PAC algorithm for reconstructing a mixture of lines. (English summary)
Dasu, Tamraparni (*with* Johnson, Theodore) ★ Exploratory data mining and data cleaning. **2004e:62003**
Davy, Pamela J. (*with* Wheway, Virginia L.) Mean-variance edge plots for ensemble voting schemes. (English summary)
Dayan, Peter (*with* Abbott, L. F.) ★ Theoretical neuroscience. **2004g:92008**
Dedene, G. *see* **Viaene, S. et al.**, (**2004k:62016**)
De Feo, Oscar Self-emergence of chaos in the identification of irregular periodic behavior. (English summary)
De Laurentiis, M. *see* **Eleuteri, A. et al.**
Denoncourt, G. *see* **Dugas, C. et al.**, (**2004k:62016**)
Deogun, Jitender S. *see* **Li, Dan[2]**, **2004m:86015**
De Placido, S. *see* **Eleuteri, A. et al.**
Derrig, R. A. *see* **Viaene, S. et al.**, (**2004k:62016**)
Dhillon, Inderjit S. (*with* Mallela, Subramanyam; Kumar, Rahul) A divisive information-theoretic feature clustering algorithm for text classification. (English summary) **2004e:94017**
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Dokukin, A. A. An inductive method for the synthesis of a correct algorithm in algebras over a model of estimate computation for recognition problems. (Russian. Russian summary) **2004f:68134**
Do Nascimento, Josina O. *see* **Barbosa, Valmir C. et al.**
(Dounias, Georgios) *see* **Advances in computational intelligence and learning**, **2004h:68004**
Droste, Stefan (*with* Jansen, Thomas; Rudolph, Günter; Schwefel, Hans-Paul; Tinnefeld, Karsten; Wegener, Ingo) Theory of evolutionary algorithms and genetic programming. (English summary) (*see* **2004a:00018**)
Dugas, C. (*with* Bengio, Y.; Chapados, N.; Vincent, P.; Denoncourt, G.; Fournier, C.) Statistical learning algorithms applied to automobile insurance ratemaking. (*see* **2004k:62016**)
Ecimovciz, Paule *see* **Lara, Teodoro et al.**, **2004a:37125**
Edelman, Alan *see* **Wen, Tong et al.**, **2004i:90099**
Edelson, William (*with* Gargano, Michael L.) Leaf constrained minimal spanning trees solved by a genetic algorithm. (English summary) **2004f:05172**
Edmonds, Jeff (*with* Gryz, Jarek; Liang, Dongming; Miller, Renée J.) Mining for empty spaces in large data sets. (English summary) **2004d:68027**
Edwards, Roderick *see* **Bohun, C. Sean et al.**, **2004e:92003**
Ehrenfeucht, Andrzej (*with* Prescott, David M.; Rozenberg, Grzegorz) Computational aspects of gene (un)scrambling in ciliates. (English summary) (*see* **2004i:68003**)
Eiron, Nadav *see* **Bshouty, Nader H. et al.**, **2004a:68048**; **2004a:68049**; (**2004j:68005**) *and* **Ben-David, Shai et al.**, **2004f:68048**
Eleuteri, A. (*with* Tagliaferri, Roberto; Milano, Leopoldo; De Placido, S.; De Laurentiis, M.) A novel neural network for survival analysis. (English summary)
El Ghaoui, Laurent *see* **Lanckriet, Gert R. G. et al.**, **2004h:62111**
Eliasmith, Chris (*with* Anderson, Charles H.) ★ Neural engineering. **2004e:93007**
El-Sayed, Mohamed Abdel-Halim *see* **Radwan, Ahmed A. A.**
El-Yaniv, Ran *see* **Nevo, Ziv**, **2004m:68117**
Engle-Warnick, Jim The advantage of complexity in two 2×2 games. (English summary)
Esogbue, Augustine O. (*with* Song, Qiang[2]) On optimal defuzzification and learning algorithms: theory and applications. (English summary)
Esposito, Floriana (*with* Fanizzi, Nicola; Ferilli, Stefano; Semeraro, Giovanni) A generalization model based on OI-implication for ideal theory refinement. (English summary) **2004i:68025**
Even-Dar, Eyal (*with* Mansour, Yishay) Learning rates for Q-learning. (English summary) (*see* **2004j:68005**)
Fanizzi, Nicola *see* **Esposito, Floriana et al.**, **2004i:68025**
Farina, Marco *see* **Montagna, Guido et al.**
Feldman, Earl E. *see* **Reifman, Jaques**, **2004f:90131**
Feng, Ja Li A kind of fuzzy degree functions and artificial neurons induced by qualitative mappings. (Chinese. English and Chinese summaries)
Feng, Ziding *see* **Yasui, Yutaka et al.**
Ferilli, Stefano *see* **Esposito, Floriana et al.**, **2004i:68025**
Fernández-Luna, Juan M. *see* **de Campos Ibáñez, Luis Miguel et al.**
Fournier, C. *see* **Dugas, C. et al.**, (**2004k:62016**)
Francis, Louise A. Practical applications of neural networks in property and casualty insurance. (*see* **2004k:62016**)
Freund, Yoav Predicting a binary sequence almost as well as the optimal biased coin. (English summary) **2004c:68058**
Friedman, Craig (*with* Sandow, Sven) Learning probabilistic models: an expected utility maximization approach. (English summary)
Fry, Robert L. A theory of neural computation. (English summary) (*see* **2004e:92001**)
(Gabrys, Bogdan) *see* **Integration of methods and hybrid systems**
Gale, Douglas (*with* Kariv, Shachar) Bayesian learning in social networks. (English summary) **2004j:91210**
Galvão, Roberto K. H. (*with* Becerra, Victor M.; Calado, João M. F.; Silva, Pedro M.) Linear-wavelet networks. (English summary)
Gamarnik, David Extension of the PAC framework to finite and countable Markov chains. (English summary) **2004b:68075**
Gammerman, Alex *see* **Nouretdinov, Ilia et al.**, (**2004j:68005**)
Gams, Matjaž *see* **Škrjanc, Maja**
Gan, Qiang *see* **Harris, Christopher J. et al.**, **2004i:93001**
Gao, Lin *see* **Zhang, Qiang[5] et al.**
Gao, Yuying *see* **Wang, Lin-shan**, **2004h:93147**
Gargano, Michael L. *see* **Edelson, William**, **2004f:05172**
Gavinsky, Dmitry Optimally-smooth adaptive boosting and application to agnostic learning. (English summary)
— *see also* **Bshouty, Nader H.**, **2004f:68049** *and* (**2004j:68005**)
Georgiev, Krassimir *see* **Mengov, G. et al.**
Gerbessiotis, Alexandros V. Random graphs in a neural computation model. (English summary)
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Golden, Jim *see* **Ashlock, Dan**, **2004g:92021**
Goldman, Sally A. (*with* Scott, Stephen D.) Multiple-instance learning of real-valued geometric patterns. (English summary) **2004j:68086**
Goles Ch., Eric *see* **Aracena, Julio**, **2004c:68121**
(Gomide, Fernando Antonio) *see* **Genetic fuzzy systems: new developments**
Gori, Marco *see* **Adorni, Giovanni et al.**, (**2004f:68136**)
Gorsich, David *see* **Wen, Tong et al.**, **2004i:90099**
Grieser, Gunter *see* **Lange, Steffen et al.**, **2004b:68076** *and* **2004d:68060**
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Grünwald, Peter D. Strong entropy concentration, game theory and algorithmic randomness. (English summary) (*see* **2004j:68005**)
Gryz, Jarek *see* **Edmonds, Jeff et al.**, **2004d:68027**
Guergachi, A. A. (*with* Patry, G. G.) Using statistical learning theory to rationalize system model identification and validation. I. Mathematical foundations. (English summary) **2004g:62021**
Guijarro, David *see* **Balcázar, José L. et al.**, (**2004j:68005**)
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Gupta, Arjun K. *see* **Sy, Bon K.**, **2004k:62007**
Gutjahr, Walter J. A generalized convergence result for the graph-based ant system metaheuristic. (English summary) **2004i:90065**
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Hájek, Petr[1] (*with* Holeňa, Martin) Formal logics of discovery and hypothesis formation by machine. (English summary) **2004b:68144**
Hammadi, Slim *see* **Mesghouni, Khaled et al.**
Han, Xu *see* **Yang, Xiaowei et al.**
Hanna, Andrew Ian *see* **Mandic, Danilo P. et al.**
Hao, Zhi Feng *see* **Yang, Xiaowei et al.**
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He, Zhenya *see* **Tan, Ying[2]**, **2004b:65052**

(Helmbold, David) *see* **Computational learning theory**, **2004j:68005**
Herrera, Francisco *see* **Cordón, O. et al.** *and* **Genetic fuzzy systems: new developments**
Hirabayashi, Hisayuki *see* **Katayama, Kengo et al.**, **2004k:90173**
Hiraishi, Kunihiko *see* **Koshiba, Takeshi**, **2004i:68096**
Hirata, Kouichi *see* **Sakamoto, Hiroshi[2] et al.**, **2004b:68077**
(Hoffmann, Frank[2]) *see* **Genetic fuzzy systems: new developments**
Holeňa, Martin *see* **Hájek, Petr[1]**, **2004b:68144**
Hong, Dug Hun (*with* Hwang, Changha) Support vector fuzzy regression machines. (English summary)
Hong, Xia *see* **Harris, Christopher J. et al.**, **2004i:93001**
Honkapohja, Seppo (*with* Mitra, Kaushik) Learning with bounded memory in stochastic models. (English summary) **2004b:91136**
Horrocks, Ian Implementation and optimization techniques. (English summary) (*see* **2004e:68001**)
Hsu, Li *see* **Yasui, Yutaka et al.**
Hu, Qi Ying *see* **Meng, Zhi Qing et al.**
Hu, Shi Geng (*with* Liao, Xiao Xin; Mao, Xuerong) Stochastic Hopfield neural networks. (English summary) **2004c:82097**
Huete, Juan F. *see* **de Campos Ibáñez, Luis Miguel et al.**
Hunt, Harry B., III *see* **Barrett, Christopher L. et al.**, **2004b:68061**
Hutter, Marcus Self-optimizing and Pareto-optimal policies in general environments based on Bayes-mixtures. (English summary) (*see* **2004j:68006**)
Hwang, Changha *see* **Hong, Dug Hun**
Ianni, Giovambattista *see* **Angiulli, Fabrizio et al.**, **2004f:68044**
Ibragimov, Akif *see* **Verma, Ajay et al.**
Illner, Reinhard *see* **Bohun, C. Sean et al.**, **2004e:92003**
Inoue, Hirotaka (*with* Narihisa, Hiroyuki) Efficiency of self-generating neural networks applied to pattern recognition. (English summary)
Inoue, Masato[2] *see* **Park, Hyeyoung et al.**, **2004k:82078**
Intrator, Nathan *see* **Cohen, Shimon**, (**2004j:62010**)
Ishibuchi, Hisao (*with* Nii, Manabu) Fuzzification of neural networks for classification problems. (English summary) (*see* **2004f:68136**)
— (*with* Sakamoto, Ryoji; Nakashima, Tomoharu) Learning fuzzy rules from iterative execution of games. (English summary) **2004b:91027**
Ishida, Toru *see* **Shimbo, Masashi**, **2004c:68125**
Jackson, Jeffrey C. *see* **Bshouty, Nader H. et al.**, **2004h:68060**
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Jain, Sanjay[1] (*with* Kinber, Efim) Intrinsic complexity of learning geometrical concepts from positive data. (English summary) (*see* **2004j:68005**)
— (*with* Stephan, Frank) Learning by switching type of information. (English summary) **2004f:68051**
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— *see also* **Case, John et al.**, (**2004j:68005**)
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Jansen, Thomas *see* **Droste, Stefan et al.**, (**2004a:00018**)
Jantke, Klaus P. *see* **Lange, Steffen et al.**, **2004d:68060**
Jeng, Jin-Tsong (*with* Chuang, Chen-Chia; Su, Shun-Feng) Support vector interval regression networks for interval regression analysis. (English summary)
Jiang, Tao[6] (*with* Owen, Art B.) Quasi-regression with shrinkage. (English summary) **2004e:62075**
Jiang, Xin Rong *see* **Liu, Yi Guang et al.**
Jiao, Li Cheng *see* **Zhou, Wei Da et al.**
Johnson, Theodore *see* **Dasu, Tamraparni**, **2004e:62003**
Jordan, Michael I. *see* **Lanckriet, Gert R. G. et al.**, **2004h:62111**
Kang, Li-shan *see* **Xie, Tao et al.**
Kanter, Ido *see* **Priel, A.**, **2004i:37162**
Kariv, Shachar *see* **Gale, Douglas**, **2004j:91210**
Karpenko, A. S. Irregularity and "essential" nonmonotonicity of Yur′ev's logic $\mathbf{Y}_3$. (Russian. English summary) **2004f:03045**
Katayama, Kengo (*with* Hirabayashi, Hisayuki; Narihisa, Hiroyuki) Analysis of crossovers and selections in a coarse-grained parallel genetic algorithm. (English summary) **2004k:90173**
Kato, Hirotaka (*with* Matsumoto, Satoshi) Learning unions of regular pattern languages using queries. (Japanese. English summary) **2004m:68115**
Kégl, Balázs *see* **Antos, András et al.**, **2004c:62140**
Kempf, Roland (*with* Adamy, Jürgen) Equilibria of recurrent fuzzy systems. (English summary) **2004k:68156**
— *see also* **Adamy, Jürgen**, **2004m:68233**
(Khardon, R.) *see* **Algorithmic learning theory**
Kim, Hyunjoong (*with* Loh, Wei-Yin) Classification trees with bivariate linear discriminant node models. (English summary)
Kinber, Efim *see* **Jain, Sanjay[1] et al.**, **2004c:68060** *and* (**2004j:68005**)
King, Ross D. *see* **Srinivasan, Ashwin et al.**
(Kivinen, Jyrki) *see* **Computational learning theory**, **2004j:68006**
Klaschka, Jan *see* **Savický, Petr**, (**2004a:62009**)
Klose, Aljoscha (*with* Kruse, Rudolf) Hybrid data mining methods in image processing. (English summary) (*see* **2004f:68136**)
Kocsor, András *see* **Kovács, Kornél**, **2004k:62158**
Kok, Joost N. *see* **Bäck, Thomas et al.**, (**2004i:68003**)
Koltchinskiĭ, Vladimir (*with* Panchenko, Dmitriĭ Anatol′evich; Lozano, Fernando) Further explanation of the effectiveness of voting methods: the game between margins and weights. (English summary) (*see* **2004j:68005**)
Komarova, N. L. (*with* Niyogi, Partha) Optimizing the mutual intelligibility of linguistic agents in a shared world. (English summary) **2004m:68247**
Konda, Vijay R. (*with* Tsitsiklis, John N.) On actor-critic algorithms. (English summary) **2004m:93151**
Kong, Jun (*with* Wu, Wei[1]) Online gradient methods with a punishing term for neural networks. (English summary)
Korolev, L. N. Some methods for the "normalization" of images. (Russian. Russian summary)
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Koshiba, Takeshi (*with* Hiraishi, Kunihiko) A note on finding one-variable patterns consistent with examples and counterexamples. (English summary) **2004i:68096**
Kovács, Kornél (*with* Kocsor, András) Various hyperplane classifiers using kernel feature spaces. (English summary) **2004k:62158**
Kruse, Rudolf *see* **Klose, Aljoscha**, (**2004f:68136**)
Kryzhanovskiĭ, B. V. (*with* Mikaèlyan, A. L.) On the recognizing capability of a neural network on neurons with parametric transformation of frequencies. (Russian) **2004e:82048**
Kuhara, Satoru *see* **Akutsu, Tatsuya et al.**, **2004a:68018** *and* **2004d:92012**
Kumar, Rahul *see* **Dhillon, Inderjit S. et al.**, **2004e:94017**
Kushilevitz, Eyal *see* **Bshouty, Nader H. et al.**, **2004a:68048**
Lanckriet, Gert R. G. (*with* El Ghaoui, Laurent; Bhattacharyya, Chiranjib; Jordan, Michael I.) A robust minimax approach to classification. (English summary) **2004h:62111**
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Lange, Steffen (*with* Grieser, Gunter) Variants of iterative learning. (English summary) **2004b:68076**
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La Torre, Davide *see* **Cusano, Claudio**, (**2004g:90008**)
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Lee, E. Stanley *see* **Li, Hong Xing**, **2004j:92009**
(Lee, Seong-Whan) *see* **Pattern recognition with support vector machines**, **2004d:68002**
Lee, Yoonkyung (*with* Lin, Yi[5]; Wahba, Grace) Multicategory support vector machines: theory and application to the classification of microarray data and satellite radiance data. (English summary) **2004m:62147**
Lemonge, Afonso C. C. *see* **Barbosa, Helio J. C.**
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Li, Hong Xing (*with* Lee, E. Stanley) Interpolation functions of feedforward neural networks. (English summary) **2004j:92009**
Li, Lin[3] *see* **Chawla, Deepak et al.**, (**2004j:68005**)
Li, Sheng-Tun *see* **Ting, Chuan-Kang et al.**
Li, You Mei *see* **Cao, Fei Long et al.**
Liang, Dongming *see* **Edmonds, Jeff et al.**, **2004d:68027**
Liang, Yan Chun *see* **Yang, Xiaowei et al.**
Liao, Xiao Xin *see* **Hu, Shi Geng et al.**, **2004c:82097**
Lin, Daying *see* **Yang, Xiaowei et al.**
Lin, Yi[5] *see* **Lee, Yoonkyung et al.**, **2004m:62147**
Lin, Zong-Zhi (*with* Bean, James C.; White, Chelsea C., III) A hybrid genetic/optimization algorithm for finite-horizon, partially observed Markov decision processes. (English summary)
Linder, Tamás *see* **Antos, András et al.**, **2004c:62140**
Ling, Charles X. (*with* Zhang, Huajie) The representational power of discrete Bayesian networks. (English summary) **2004d:68151**
Liu, Gui-Rong *see* **Yang, Xiaowei et al.**
Liu, Jian *see* **Chen, De Chang**, (**2004j:62010**)
Liu, Jun[7] *see* **Xu, Yang[1] et al.**, **2004j:68170**
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Livne, Shlomi *see* **Grumberg, Orna et al.**, **2004f:68094**
Lloyd, John Predicate construction in higher-order logic. (English summary) **2004d:68147**
Loh, Wei-Yin *see* **Kim, Hyunjoong**
Long, Philip M. On agnostic learning with $\{0, *, 1\}$-valued and real-valued hypotheses. (English summary) (*see* **2004j:68005**)
Lozano, Fernando *see* **Koltchinskii, Vladimir et al.**, (**2004j:68005**)
Lu, De Lin (*with* Zhang, Xiang Sun; Chen, Jie) Study on rapid-estimate model based on integrated neural net. (Chinese. English and Chinese summaries)
Lugosi, Gábor Pattern classification and learning theory. **2004e:68090**
— *see also* **Antos, András et al.**, **2004c:62140** *and* **Cesa-Bianchi, Nicolò**, (**2004j:68005**)
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Maeda, Eisaku *see* **Suzuki, Jun et al.**
(Magdalena, L.) *see* **Genetic fuzzy systems: new developments**
Malerba, Donato Learning recursive theories in the normal ILP setting. (English summary) **2004k:68026**
Mallela, Subramanyam *see* **Dhillon, Inderjit S. et al.**, **2004e:94017**
Malzahn, Dörthe (*with* Opper, Manfred) Learning curves and bootstrap estimates for inference with Gaussian processes: a statistical mechanics study. (English summary)
Mandic, Danilo P. (*with* Goh, Su Lee; Hanna, Andrew Ian) Data-reusing algorithm for complex-valued adaptive filters.
Mangasarian, Olvi L. *see* **Smola, Alexander J. et al.**, **2004b:62150**
Mansour, Yishay *see* **Even-Dar, Eyal**, (**2004j:68005**)

Mao, Xuerong *see* **Hu, Shi Geng et al., 2004c:82097**
Marathe, Madhav V. *see* **Barrett, Christopher L. et al., 2004b:68061**
Marchand, Mario (*with* Shawe-Taylor, John) The set covering machine. (English summary) **2004f:68052**
Markovitch, Shaul *see* **Grumberg, Orna et al., 2004f:68094**
Markram, Henry *see* **Häusler, Stefan et al.** *and* **Maass, Wolfgang et al.**
Maruyama, Osamu *see* **Akutsu, Tatsuya et al., 2004d:92012**
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Mastorocostas, Paris A. (*with* Theocharis, John B.) An orthogonal least-squares method for recurrent fuzzy-neural modeling. (English summary) **2004j:93136**
Matsumoto, Satoshi *see* **Hayashi, Yosuke et al., 2004c:68059** *and* **Kato, Hirotaka, 2004m:68115**
Mehnen, Jörn *see* **Beielstein, Thomas et al., (2004a:00018)**
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Merkle, Wolfgang (*with* Stephan, Frank) Refuting learning revisited. (English summary) **2004d:68062**
Mesghouni, Khaled (*with* Hammadi, Slim; Borne, Pierre) Evolutionary algorithms for job-shop scheduling. (English summary)
Mikaèlyan, A. L. *see* **Kryzhanovskiĭ, B. V., 2004e:82048**
Milano, Leopoldo *see* **Eleuteri, A. et al.**
Miller, Renée J. *see* **Edmonds, Jeff et al., 2004d:68027**
Mitra, Kaushik *see* **Honkapohja, Seppo, 2004b:91136**
Miyano, Satoru *see* **Akutsu, Tatsuya et al., 2004a:68018** *and* **2004d:92012**
Montagna, Guido (*with* Morelli, Marco; Nicrosini, Oreste; Amato, Paolo; Farina, Marco) Pricing derivatives by path integral and neural networks. (English summary)
Morales, Antonio J. Absolutely expedient imitative behavior. (English summary) **2004h:91033**
Morelli, Marco *see* **Montagna, Guido et al.**
Morgan, P. H. *see* **Curry, B.**
Mori, Masao[1] *see* **Yajima, Yasutoshi et al., 2004j:90059**
Mottl′, V. V. Metric spaces that admit linear operations and inner product. (Russian) **2004m:46013**
Mukouchi, Yasuhito *see* **Sato, Masako, 2004j:68088**
Müller, Klaus-Robert *see* **Sugiyama, Masashi, 2004d:62015**
Mumford, David Pattern theory: the mathematics of perception. (English summary) **2004k:91168**
Myers, Catherine E. *see* **Gluck, Mark A.**
Nagai, Akira *see* **Chen, Liang[4] et al.**
Nakashima, Tomoharu *see* **Ishibuchi, Hisao et al., 2004b:91027**
Narihisa, Hiroyuki *see* **Katayama, Kengo et al., 2004k:90173** *and* **Inoue, Hirotaka**
Natschlaeger, Thomas *see* **Maass, Wolfgang et al.**
Nedelec, Elodie *see* **Gey, Servane, 2004g:62114**
Nessel, Jochen *see* **Lange, Steffen, 2004b:68095**
Nevo, Ziv (*with* El-Yaniv, Ran) On online learning of decision lists. (English summary) **2004m:68117**
Nguyen, Minh N. (*with* Rajapakse, Jagath C.) Two-stage support vector machiens for protein secondary structure prediction. (English summary)
Nicrosini, Oreste *see* **Montagna, Guido et al.**
Nii, Manabu *see* **Ishibuchi, Hisao, (2004f:68136)**
Niyogi, Partha *see* **Komarova, N. L., 2004m:68247**
Nouretdinov, Ilia (*with* Vovk, Vladimir G.; Vyugin, Mikhail V.; Gammerman, Alex) Pattern recognition and density estimation under the general i.i.d. assumption. (English summary) (*see* **2004j:68005**)
Ohi, Hiroko *see* **Yajima, Yasutoshi et al., 2004j:90059**
Okada, Masato *see* **Park, Hyeyoung et al., 2004k:82078**
Okamoto, Seishi (*with* Yugami, Nobuhiro) Effects of domain characteristics on instance-based learning algorithms. (English summary) **2004d:68063**
Omatu, Sigeru *see* **Selamat, Ali**
Opper, Manfred *see* **Malzahn, Dörthe** *and* **Csato, Lehel et al.**
Orponen, Pekka *see* **Šíma, Jiří, 2004g:37120**
Ott, Sascha *see* **Akutsu, Tatsuya et al.**
Owen, Art B. *see* **Jiang, Tao[6], 2004e:62075**
Owshanko, Avi *see* **Bshouty, Nader H., (2004j:68005)**
Pal, Nikhil R. *see* **Pal, Srimanta, 2004h:65047**
Pal, Srimanta (*with* Pal, Nikhil R.) Connectionist models for approximate solutions of non-linear equations in one variable. (English summary) **2004h:65047**
Palm, Günther *see* **Schwenker, Friedhelm, (2004j:62010)**
Palopoli, Luigi *see* **Angiulli, Fabrizio et al., 2004f:68044**
Panchenko, Dmitriĭ Anatol′evich *see* **Koltchinskii, Vladimir et al., (2004j:68005)**
Parada, Víctor *see* **Solar, Mauricio et al., 2004f:90176**
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Park, In Kue Wavelets based neural network system for the nonlinear function approximation. (English summary)
Patry, G. G. *see* **Guergachi, A. A., 2004g:62021**
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Pavlov, Elan *see* **Dasgupta, Sanjoy et al.**
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Pedrycz, Witold (*with* Camargo, Heloisa) Fuzzy timed Petri nets. (English summary) **2004k:68128**
— *see also* **Bargiela, Andrzej, (2004f:68136)**
Pelfrêne, Johann (*with* Abdeddaïm, Saïd; Alexandre, Joël) Extracting approximate patterns (extended abstract). (English summary)
Pepe, Margaret Sullivan *see* **Yasui, Yutaka et al.**
Piccolboni, Antonio (*with* Schindelhauer, Christian) Discrete prediction games with arbitrary feedback and loss (extended abstract). (English summary) (*see* **2004j:68005**)
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Poggio, Tomaso (*with* Smale, Stephen) The mathematics of learning: dealing with data. **2004i:62117**
Polkowski, Lech On fractal dimension in information systems. Toward exact sets in infinite information systems. (English summary) **2004g:68173**
Prescott, David M. *see* **Ehrenfeucht, Andrzej et al., (2004i:68003)**
Priel, A. (*with* Kanter, Ido) Time series generation by recurrent neural networks. (English summary) **2004i:37162**
Prügel-Bennett, Adam *see* **Glass, Celia A., 2004k:05086**
Pulov, S. *see* **Mengov, G. et al.**
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Radwan, Ahmed A. A. (*with* El-Sayed, Mohamed Abdel-Halim) Using genetic algorithm for drawing triangulated planar graphs. (English summary)
Rajapakse, Jagath C. *see* **Nguyen, Minh N.**
Ramachandran, Satheesh *see* **Verma, Ajay et al.**
Ratsaby, Joel On learning multicategory classification with sample queries. (English summary) **2004m:68207**
Ravi, S. S. *see* **Barrett, Christopher L. et al., 2004b:68061**
Reidenbach, Daniel A negative result on inductive inference of extended pattern languages. (English summary)
Reifman, Jaques (*with* Feldman, Earl E.) Multilayer perceptron for nonlinear programming. (English summary) **2004f:90131**
Rigoll, Gerhard Combination of hidden Markov models and neural networks for hybrid statistical pattern recognition. (English summary) (*see* **2004f:68136**)
Rónyai, Lajos *see* **Bodon, Ferenc**
Rosenkrantz, Daniel J. *see* **Barrett, Christopher L. et al., 2004b:68061**
Roth, Dan *see* **Har-Peled, Sariel et al.**
Rozenberg, Grzegorz *see* **Bäck, Thomas et al., (2004i:68003)** *and* **Ehrenfeucht, Andrzej et al., (2004i:68003)**
Ruan, Da *see* **Xu, Yang[1] et al., 2004j:68170**
Rubinov, Aleksandr M. *see* **Bagirov, Adil M. et al., 2004e:90080**
Rudolph, Günter *see* **Droste, Stefan et al., (2004a:00018)**
Saitoh, Saburou New type approximation error and convergence rate estimates in statistical learning theory. (English summary) **2004b:62097**
Sakamoto, Hiroshi[2] (*with* Hirata, Kouichi; Arimura, Hiroki) Learning elementary formal systems with queries. (English summary) **2004b:68077**
Sakamoto, Ryoji *see* **Ishibuchi, Hisao et al., 2004b:91027**
Sandholm, Tuomas *see* **Braynov, Sviatoslav, 2004b:91119**
Sandow, Sven *see* **Friedman, Craig**
Sasaki, Yutaka *see* **Suzuki, Jun et al.**
Sassano, Antonio *see* **Bruni, Renato, 2004d:03021**
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68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30.}

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Moini, A. R. *see* **Habili, N. et al.**
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Jordan, Michael I. *see* **Lanckriet, Gert R. G. et al., 2004h:62111**
Kelly, Mark G. *see* **Hand, David J. et al., (2004j:62010)**
Keriven, Renaud *see* **Faugeras, Olivier et al.**
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Kondo, Yoichi *see* **Yamaguchi, Kazuaki, (2004h:00019)**
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Liu, Da You² *see* **Guan, Ji Wen et al.**
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Lupşa, Liana *see* **Cristescu, Gabriela, 2004m:39029**
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Stafylopatis, Andreas *see* **Frossyniotis, Dimitrios S., (2004j:62010)**
Steidl, Gabriele *see* **Strauß, Daniel J., 2004f:68130**
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68T15 Theorem proving (deduction, resolution, etc.) [see also 03B35]

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Bibel, Wolfgang *see* **Otten, Jens**
Buchberger, Bruno Theory exploration with Theorema.
Bundy, Alan *see* **Dennis, Louise A., (2004k:68010)**
Chao, Yuyan *see* **He, Lifeng et al., 2004g:68150** *and* **2004m:68208**
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Degtyarëv, Anatoliĭ Ivanovich (*with* Nieuwenhuis, Robert; Voronkov, Andrei) Stratified resolution. (English summary) **2004g:68149**
— *see also* **Vershinin, K. P. et al., 2004j:68159**
Dennis, Louise A. (*with* Bundy, Alan) A comparison of two proof critics: power vs. robustness. (English summary) (*see* **2004k:68010**)
Felty, Amy P. *see* **Appel, Andrew W.**
Franco, John (*with* Swaminathan, Ram) On good algorithms for determining unsatisfiability of propositional formulas. (English summary) **2004h:68117**
Ganzinger, Harald (*with* Nieuwenhuis, Robert; Nivela, Pilar) Fast term indexing with coded context trees. (English summary)
Gérard, Sylvain *see* **Li, Chu-Min, 2004k:68146**
Giunchiglia, Enrico (*with* Narizzano, Massimo; Tacchella, Armando) Backjumping for quantified Boolean logic satisfiability. (English summary) **2004c:68122**
Gutiérrez, Gloria (*with* de Guzman, Inmaculada P.; Martínez del Castillo, Javier; Ojeda-Aciego, Manuel; Valverde, Agustín) Satisfiability testing for Boolean formulas using Δ-trees. (English summary) **2004f:68137**
de Guzman, Inmaculada P. *see* **Gutiérrez, Gloria et al., 2004f:68137**
Hähnle, Reiner *see* **Shirai, Yasuyuki et al., 2004a:68128**
Hai, Lin (*with* Sun, Ji Gui; Yimin, Zhang) Theorem proving based on the extension rule. (English summary) **2004h:68118**
Hasegawa, Ryuzo *see* **Shirai, Yasuyuki et al., 2004a:68128**
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Hébrard, Jean-Jacques *see* **Benoist, Emmanuel, 2004d:68140**
Hirschkoff, Daniel *see* **Röckl, Christine**
Itoh, Hidenori *see* **He, Lifeng et al., 2004g:68150** *and* **2004m:68208**
Jebelean, Tudor *see* **Piroi, Florina**
Kirchner, Claude *see* **Nguyen, Quang Huy et al., 2004b:68141**
Kirchner, Hélène *see* **Nguyen, Quang Huy et al., 2004b:68141**
Klay, Francis *see* **Rusinowitch, Michaël et al., 2004d:68142**
Li, Chu-Min Equivalent literal propagation in the DLL procedure. (English summary) **2004i:68193**
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Lyaletskiĭ, A. V. *see* **Vershinin, K. P. et al., 2004j:68159**
Lynce, Inês (*with* Marques-Silva, João P.) An overview of backtrack search satisfiability algorithms. (English summary) **2004d:68141**
Marin, Mircea A deterministic lazy conditional narrowing calculus. (English summary)
Marques-Silva, João P. *see* **Lynce, Inês, 2004d:68141**
Martínez del Castillo, Javier *see* **Gutiérrez, Gloria et al., 2004f:68137**
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Morokhovets, M. K. *see* **Vershinin, K. P. et al., 2004j:68159**
Narizzano, Massimo *see* **Giunchiglia, Enrico et al., 2004c:68122**
Nguyen, Quang Huy (*with* Kirchner, Claude; Kirchner, Hélène) External rewriting for skeptical proof assistants. (English summary) **2004b:68141**
Nieuwenhuis, Robert *see* **Degtyarëv, Anatoliĭ Ivanovich et al., 2004g:68149** *and* **Ganzinger, Harald et al.**
Nivela, Pilar *see* **Ganzinger, Harald et al.**
Occhiuto, M. Eugenia *see* **Bellia, Marco, 2004i:68192**
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Plaisted, David A. (*with* Yahya, Adnan) A relevance restriction strategy for automated deduction. (English summary) **2004a:68127**
Qin, Xiao Yan *see* **Zhou, Xiang Nan**
Riazanov, Alexandre (*with* Voronkov, Andrei) Limited resource strategy in resolution theorem proving. (English summary) **2004g:68152**
Robu, Judit Systematic exploration of geometric configurations using *Theorema* based on *Mathematica*. (English summary) **2004k:68148**
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Rusinowitch, Michaël (*with* Stratulat, Sorin; Klay, Francis) Mechanical verification of an ideal incremental ABR conformance algorithm. (English summary) **2004d:68142**
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Sun, Ji Gui *see* **Hai, Lin et al.**, **2004h:68118**
Swaminathan, Ram *see* **Franco, John**, **2004h:68117**
Tacchella, Armando *see* **Giunchiglia, Enrico et al.**, **2004c:68122**
Valverde, Agustín *see* **Gutiérrez, Gloria et al.**, **2004f:68137**
Van Gelder, Allen *see* **Okushi, Fumiaki**, **2004k:68147**
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Voronkov, Andrei *see* **Degtyarëv, Anatoliĭ Ivanovich et al.**, **2004g:68149** *and* **Riazanov, Alexandre**, **2004g:68152**
Xia, Shi Hong *see* **Yang, Lu**
Yahya, Adnan *see* **Plaisted, David A.**, **2004a:68127**
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Yimin, Zhang *see* **Hai, Lin et al.**, **2004h:68118**
Zhang, Jing Zhong *see* **Chen, Shi Ping[2]**
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Beckert, Bernhard Depth-first proof search without backtracking for free-variable clausal tableaux. (English summary) **2004g:03019**
Ben-Sasson, Eli (*with* Galesi, Nicola) Space complexity of random formulae in resolution. (English summary) **2004f:03100**
Benzmüller, Christoph Comparing approaches to resolution based higher-order theorem proving. (English summary) **2004a:03022**
Berghofer, Stefan (*with* Nipkow, Tobias) Executing higher order logic. (English summary) (*see* **2004j:68022**)
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(Berry, Gérard) *see* **Computer aided verification**, **2004j:68007**
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Bruni, Renato Approximating minimal unsatisfiable subformulae by means of adaptive core search. (English summary) **2004i:68195**
(Carreño, Victor A.) *see* **Theorem proving in higher order logics**, **2004k:68010**
Cerrito, S. *see* **Thion, V. et al.**, (**2004k:68003**)
Chao, Yuyan *see* **He, Lifeng et al.**
Cialdea Mayer, Marta *see* **Thion, V. et al.**, (**2004k:68003**)
(Comon-Lundh, Hubert) *see* **Computer aided verification**, **2004j:68007**
Coquand, Thierry *see* **Bezem, Marc**, **2004a:03023**
Courtieu, Pierre *see* **Barthe, Gilles**, (**2004k:68010**)
Crole, Roy L. *see* **Ambler, Simon J. et al.**, (**2004k:68010**)
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Dill, David L. *see* **Barrett, Clark W. et al.**, **2004a:03021**
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Ernst, Zachary (*with* Fitelson, Branden; Harris, Kenneth; Wos, Larry) Shortest axiomatizations of implicational S4 and S5. (English summary) **2004m:03073**
Esteban, Juan Luis (*with* Torán, Jacobo) A combinatorial characterization of treelike resolution space. (English summary) **2004g:03098**
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(Finkel, Alain) *see* **Computer aided verification**, **2004j:68007**
Fisher, Michael D. *see* **Degtyarëv, Anatoliĭ Ivanovich et al.**, (**2004k:68003**)
Fitelson, Branden *see* **Wos, Larry et al.**, **2004c:03014**; (**2004e:03001**) *and* **Ernst, Zachary et al.**, **2004m:03073**
(Franco, John) *see* **Renesse issue on satisfiability**
Friedrich, Stefan *see* **Basin, David et al.**, (**2004k:68010**)
Galesi, Nicola *see* **Ben-Sasson, Eli**, **2004f:03100** *and* **Bonet, María Luisa**, **2004g:03097**
Gava, Frédéric Formal proofs of functional BSP programs. (English summary) **2004i:68033**
Gawkowski, Marek *see* **Basin, David et al.**, (**2004k:68010**)
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Godoy, Guillem (*with* Nieuwenhuis, Robert) Superposition with completely built-in abelian groups. (English summary) **2004j:03016**
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Guidi, Ferruccio *see* **Asperti, Andrea et al.**
Hansen, Pierre Computers in graph theory. (English summary) **2004a:05154**
Hardin, Thérèse *see* **Dowek, Gilles et al.**, **2004h:03016**
Harland, James (*with* Pym, David J.) Resource-distribution via Boolean constraints. (English summary) **2004c:03081**
Harman, Mark *see* **Zhang, Xingyuan et al.**, (**2004k:68010**)
Harris, Kenneth *see* **Ernst, Zachary et al.**, **2004m:03073**
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Hendriks, Dimitri *see* **Bezem, Marc et al.**, **2004b:03022**
Hickey, Jason *see* **Nogin, Aleksey**, (**2004k:68010**)
Hillenbrand, Th. *see* **Avenhaus, J. et al.**, **2004g:03018**
Homeier, Peter V. (*with* Martin, David F.) Secure mechanical verification of mutually recursive procedures. (English summary) **2004j:68115**
Hu, Lin *see* **Zhang, Xingyuan et al.**, (**2004k:68010**)
Hustadt, Ullrich *see* **Georgieva, Lilia et al.**, **2004g:03021**
Itoh, Hidenori *see* **He, Lifeng et al.**
Jebelean, Tudor *see* **Konev, Boris**
Kamareddine, Fairouz (*with* Qiao, Haiyan) Formalizing strong normalization proofs of explicit substitution calculi in ALF. (English summary) **2004f:68018**

Karger, Adolf Computer proofs of geometrical theorems. (English summary) (*see* **2004k:00020**)
Kato, Shohey *see* **He, Lifeng et al.**
Kawana, Norimitsu *see* **He, Lifeng et al.**
Kirchner, Claude *see* **Dowek, Gilles et al., 2004h:03016**
Kleine Büning, Hans (*with* Zhao, Xi-Shun) On the structure of some classes of minimal unsatisfiable formulas. (English summary) **2004k:03024**
Klíma, Ondřej Unification modulo associativity and idempotency is NP-complete. (English summary)
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Konikowska, Beata Rasiowa-Sikorski deduction systems in computer science applications. (English summary) **2004f:68097**
Kreitz, Christoph Building reliable, high-performance networks with the Nuprl proof development system. (English summary)
Kullmann, Oliver Lean clause-sets: generalizations of minimally unsatisfiable clause-sets. (English summary) **2004i:68085**
Letouzey, Pierre A new extraction for Coq. (English summary)
Letz, Reinhold (*with* Stenz, Gernot) Integration of equality reasoning into the disconnection calculus. (English summary) (*see* **2004k:68003**)
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Li, Hong Bo (*with* Wu, Yihong) Automated short proof generation for projective geometric theorems with Cayley and bracket algebras. I. Incidence geometry. (English summary) **2004h:03018**
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Li, San Jiang *see* **Nan, Shu Qin**
Li, Wei[3] (*with* Ma, Shilong) Limits of theory sequences over algebraically closed fields and applications. (English summary) **2004m:03044**
Löchner, B. *see* **Avenhaus, J. et al., 2004g:03018**
López-Fraguas, Francisco J. (*with* Sánchez-Hernández, Jaime) A proof theoretic approach to failure in functional logic programming. (English summary) **2004j:68044**
Lupea, Mihaiela DARR—a theorem prover for constrained and rational default logic. (English summary)
Ma, Shilong *see* **Li, Wei[3], 2004m:03044**
(van Maaren, Hans) *see* **Renesse issue on satisfiability**
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— *see also* **Bertot, Yves et al., 2004b:68103**
Makharadze, M. *see* **Tibua, L.**
Manolios, Panagiotis (*with* Moore, J. Strother) Partial functions in ACL2. (English summary)
Martin, David F. *see* **Homeier, Peter V., 2004j:68115**
Marx, Maarten *see* **Blackburn, Patrick, (2004k:68003)**
McBride, Conor Elimination with a motive. (English summary) (*see* **2004j:68022**)
von Mohrenschildt, Martin *see* **Farmer, William M.**
Momigliano, Alberto *see* **Ambler, Simon J. et al., (2004k:68010)**
Moore, J. Strother *see* **Manolios, Panagiotis**
(Muñoz, César A.) *see* **Theorem proving in higher order logics, 2004k:68010**
Munro, Malcolm *see* **Zhang, Xingyuan et al., (2004k:68010)**
Nakamura, Tsuyoshi[2] *see* **He, Lifeng et al.**
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Nieuwenhuis, Robert *see* **Bofill, Miquel et al., 2004a:68051** *and* **Godoy, Guillem, 2004j:03016**
Nipkow, Tobias Hoare logics in Isabelle/HOL. (English summary) **2004g:68111**
— Structured proofs in Isar/HOL. (English summary)
— *see also* **Berghofer, Stefan, (2004j:68022)**
de Nivelle, Hans *see* **Bezem, Marc et al., 2004b:03022**
Nogin, Aleksey (*with* Hickey, Jason) Sequent schema for derived rules. (English summary) (*see* **2004k:68010**)
Oury, Nicolas Observational equivalence and program extraction in the Coq proof assistant. (English summary) (*see* **2004j:68021**)
Padovani, Luca *see* **Asperti, Andrea et al.**
Patel-Schneider, Peter F. (*with* Sebastiani, Roberto) A new general method to generate random modal formulae for testing decision procedures. (English summary) **2004f:03033**
Paulson, Lawrence C. The relative consistency of the axiom of choice mechanized using Isabelle/ZF. (English summary) **2004m:03046**
Peltier, Nicolas Model building with ordered resolution: extracting models from saturated clause sets. (English summary) **2004h:03020**
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Petermann, Uwe A confluent theory connection calculus. (English summary) (*see* **2004k:68003**)
Pfenning, Frank Logical frameworks—a brief introduction. (English summary) **2004g:03024**
Phillips, J. D. See Otter digging for algebraic pearls. (English summary) **2004g:20090**
Pichler, Reinhard On the complexity of equational problems in CNF. (English summary) **2004h:68049**
Plaisted, David A. (*with* Biere, Armin; Zhu, Yunshan) A satisfiability procedure for quantified Boolean formulae. (English summary) **2004i:68088**
Pym, David J. *see* **Harland, James, 2004c:03081**
Qiao, Haiyan *see* **Kamareddine, Fairouz, 2004f:68018**
Ranise, Silvio *see* **Armando, Alessandro et al., 2004f:68053** *and* **2004g:68069**
Ratschan, Stefan Convergent approximate solving of first-order constraints by approximate quantifiers. (English summary) **2004m:03047**
Raut, Manoj K. (*with* Singh, Arindama) Prime implicants of first order formulas via transversal clauses. (English summary) **2004k:03025**
Rodrigues, Odinaldo Structured clusters: a framework to reason with contradictory interests. (English summary) **2004k:68154**
Rubio, Albert *see* **Bofill, Miquel et al., 2004a:68051**
Rudnicki, Piotr *see* **Bancerek, Grzegorz, 2004b:03021**
Rusinowitch, Michaël *see* **Armando, Alessandro et al., 2004a:68167** *and* **2004f:68053**
Sacerdoti Coen, Claudio *see* **Asperti, Andrea et al.**
Sánchez-Hernández, Jaime *see* **López-Fraguas, Francisco J., 2004j:68044**
Schaub, Torsten (*with* Wang, Kewen) A semantic framework for preference handling in answer set programming. (English summary) **2004i:68030**
Schena, Irene *see* **Asperti, Andrea et al.**
Schmidt, Renate A. *see* **Georgieva, Lilia et al., 2004g:03021**
Schmidt-Schauß, Manfred A decision algorithm for stratified context unification. (English summary) **2004j:03018**
Schwarzweller, Christoph Designing mathematical libraries based on requirements for theorems. (English summary)
Sebastiani, Roberto *see* **Patel-Schneider, Peter F., 2004f:03033**
Singh, Arindama *see* **Raut, Manoj K., 2004k:03025**
Sofronie-Stokkermans, Viorica Representation theorems and the semantics of non-classical logics, and applications to automated theorem proving. (English summary) **2004e:03056**
— Resolution-based decision procedures for the universal theory of some classes of distributive lattices with operators. (English summary) **2004k:03026**
(Speckenmeyer, Ewald) *see* **Renesse issue on satisfiability**
Stenz, Gernot *see* **Letz, Reinhold, (2004k:68003)**
Stratulat, Sorin *see* **Armando, Alessandro et al., 2004a:68167**
Stump, Aaron *see* **Barrett, Clark W. et al., 2004a:03021**
Szeider, Stefan Homomorphisms of conjunctive normal forms. (English summary) **2004i:03021**
(Tahar, Sofiène) *see* **Theorem proving in higher order logics, 2004k:68010**
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Tibua, L. (*with* Makharadze, M.) τ-unification algorithm.
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— *see also* **Baader, Franz, 2004b:03058**
Torán, Jacobo *see* **Esteban, Juan Luis, 2004g:03098**
Tveretina, Olga (*with* Zantema, Hans) SAT techniques and knowledge base verification. (English summary)
Ulrich, Dolph *see* **Wos, Larry et al., 2004c:03014**
Urquhart, Alasdair Resolution proofs of matching principles. (English summary) **2004c:03080**
Varga, Katalin Pásztor (*with* Várterész, Magda) Comparison and usability of two rewriting systems for theorem proving. (English summary) **2004g:68078**
Várterész, Magda *see* **Varga, Katalin Pásztor, 2004g:68078**
Veroff, Robert A shortest 2-basis for Boolean algebra in terms of the Sheffer stroke. (English summary) **2004i:03022**
Voronkov, Andrei Proof-search in intuitionistic logic with equality, or back to simultaneous rigid E-unification. (English summary) **2004b:03019**
Wang, Kewen *see* **Schaub, Torsten, 2004i:68030**
Wintner, Shuly On the semantics of unification grammars. (English summary) **2004j:68093**
Wos, Larry (*with* Fitelson, Branden) The automation of sound reasoning and successful proof finding. (*see* **2004e:03001**)
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Zhao, Xi-Shun *see* **Kleine Büning, Hans, 2004k:03024**
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Zito, Michele An upper bound on the space complexity of random formulae in resolution. (English summary) **2004a:68046**

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Automated reasoning with analytic tableaux and related methods ★ Automated reasoning with analytic tableaux and related methods. **2004k:68003**
Computer aided verification ★ Computer aided verification. **2004j:68007**
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First order theorem proving ★ First order theorem proving.
Hampton, VA ★ Theorem proving in higher order logics. **2004k:68010**
Lecture Notes in Computer Science ★ Computer aided verification. **2004j:68007**
— ★ Automated reasoning with analytic tableaux and related methods. **2004k:68003**
— ★ Theorem proving in higher order logics. **2004k:68010**
Paris ★ Computer aided verification. **2004j:68007**
Renesse ★ The Renesse issue on satisfiability.
Renesse issue on satisfiability ★ The Renesse issue on satisfiability.
St. Andrews ★ First order theorem proving.
Theorem proving in higher order logics ★ Theorem proving in higher order logics. **2004k:68010**
Workshop:
Satisfiability ★ The Renesse issue on satisfiability.

68T20 Problem solving (heuristics, search strategies, etc.)

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d'Amore, Fabrizio (*with* Iacobini, Fabio) On-line algorithms for networks of temporal constraints. (English summary) **2004i:68194**

Barro, S. *see* **Félix, P. et al., 2004i:68196**

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Chassaing, Philippe *see* **Zilberstein, Shlomo et al., 2004h:68121**

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Covino, E. *see* **de Rosis, Fiorella et al., (2004b:03007)**

Dalmau, Víctor Constraint satisfaction problems in non-deterministic logarithmic space. (English summary)

Dean, Thomas *see* **Givan, Robert et al., 2004f:68142** *and* **Kim, Kee-Eung, 2004f:68143**

Domshlak, Carmel *see* **Brafman, Ronen I., 2004f:68139**

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Faber, Wolfgang *see* **Eiter, Thomas et al., (2004j:68015)**

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Feder, Tomás (*with* Madelaine, Florent R.; Stewart, Iain A.) Dichotomies for classes of homomorphism problems involving unary functions. (English summary) **2004m:68212**

Félix, P. (*with* Barro, S.; Marín Morales, R.) Fuzzy constraint networks for signal pattern recognition. (English summary) **2004i:68196**

Felner, Ariel (*with* Kraus, Sarit; Korf, Richard E.) KBFS: K-best-first search. (English summary) **2004h:68119**

Frank, Jeremy (*with* Jónsson, Ari) Constraint-based attribute and interval planning. (English summary)

Furcy, David *see* **Koenig, Sven et al., 2004m:68214**

Gennari, Rosella *see* **Bistarelli, S. et al., 2004c:68124**

Gerevini, Alfonso (*with* Serina, Ivan) Planning as propositional CSP: from Walksat to local search techniques for action graphs. (English summary)

Giunchiglia, Enrico *see* **Castellini, Claudio et al., 2004e:68093**

Givan, Robert (*with* Dean, Thomas; Greig, Matthew) Equivalence notions and model minimization in Markov decision processes. (English summary) **2004f:68142**

Goodrich, Michael A. *see* **Stirling, Wynn C. et al., (2004h:68003)**

Gordon, Andrew S. The representation of planning strategies. (English summary)

Greenwald, Amy R. *see* **Kephart, Jeffrey O., (2004h:68003)**

Greig, Matthew *see* **Givan, Robert et al., 2004f:68142**

Hanks, Steve *see* **Madani, Omid et al., 2004e:68094**

Hashimoto, Tsuyoshi *see* **Sakuta, Makoto et al.**

Hayward, Ryan B. (*with* Björnsson, Yngvi; Johanson, M.; Kan, Morgan Hugh; Po, N.; van Rijswijck, J.) Solving 7×7 Hex: virtual connections and game-state reduction. (English summary) (*see* **2004j:68162**)

(Heinz, Ernst A.) *see* **Advances in computer games, 2004j:68162**

van den Herik, H. Jaap *see* **Advances in computer games, 2004j:68162; Donkers, H. H. L. M. et al.** *and* **Winands, Mark H. M. et al.**

Hosobe, Hiroshi (*with* Matsuoka, Satoshi) A foundation of solution methods for constraint hierarchies. (English summary) **2004b:68142**

Iacobini, Fabio *see* **d'Amore, Fabrizio, 2004i:68194**

Iida, Hiroyuki *see* **Advances in computer games, 2004j:68162** *and* **Sakuta, Makoto et al.**

Ishida, Toru *see* **Shimbo, Masashi, 2004c:68125**

Jeavons, Peter *see* **Bulatov, Andrei A. et al., 2004j:68160** *and* **Krokhin, Andrei et al., 2004m:68215**

Jégou, Philippe (*with* Terrioux, Cyril) Hybrid backtracking bounded by tree-decomposition of constraint networks. (English summary) **2004d:68143**

Jing, Shen Yan *see* **Sun, Ji Gui**

Johanson, M. *see* **Hayward, Ryan B. et al., (2004j:68162)**

Jónsson, Ari *see* **Frank, Jeremy**

Jonsson, Peter *see* **Krokhin, Andrei et al., 2004m:68215**

Kan, Morgan Hugh *see* **Hayward, Ryan B. et al., (2004j:68162)**

Kanovich, M. I. (*with* Vauzeilles, Jacqueline) Coping polynomially with numerous but identical elements within planning problems. (English summary) **2004m:68213**

Kephart, Jeffrey O. (*with* Greenwald, Amy R.) Shopbot economics. (English summary) (*see* **2004h:68003**)

Kim, Kee-Eung (*with* Dean, Thomas) Solving factored MDPs using non-homogeneous partitions. (English summary) **2004f:68143**

Koenig, Sven (*with* Tovey, Craig A.; Smirnov, Yury V.) Performance bounds for planning in unknown terrain. **2004f:68144**

— (*with* Likhachev, Maxim; Furcy, David) Lifelong planning A*. (English summary) **2004m:68214**

Korf, Richard E. *see* **Felner, Ariel et al., 2004h:68119**

Kraus, Sarit *see* **Felner, Ariel et al., 2004h:68119**

Krokhin, Andrei (*with* Jeavons, Peter; Jonsson, Peter) The complexity of constraints on intervals and lengths. (English summary) **2004m:68215**

Lehner, Paul *see* **Vane, Russell, (2004h:68003)**

Leone, Nicola *see* **Eiter, Thomas et al., (2004j:68015)**

Likhachev, Maxim *see* **Koenig, Sven et al., 2004m:68214**

Limongelli, Carla *see* **Cialdea Mayer, Marta, (2004k:68003)**

Littman, Michael L. *see* **Majercik, Stephen M., 2004e:68095**

Liu, Yongmei[1] *see* **Cook, Stephen A., 2004f:68141**

Lorenz, U. (*with* Monien, Burkhard) The secret of selective game tree search, when using random-error evaluations. (English summary) (*see* **2004j:68020**)

— (*with* Monien, Burkhard) Error analysis in minimax trees. (English summary)

Luks, Eugene M. (*with* Roy, Amitabha) The complexity of symmetry-breaking formulas. (English summary) **2004m:68216**

Madani, Omid (*with* Hanks, Steve; Condon, Anne E.) On the undecidability of probabilistic planning and related stochastic optimization problems. (English summary) **2004e:68094**

Madelaine, Florent R. *see* **Feder, Tomás et al., 2004m:68212**

Majercik, Stephen M. (*with* Littman, Michael L.) Contingent planning under uncertainty via stochastic satisfiability. (English summary) **2004e:68095**

Marín Morales, R. *see* **Félix, P. et al., 2004i:68196**

Marsland, T. A. *see* **Björnsson, Yngvi**

Matsuoka, Satoshi *see* **Hosobe, Hiroshi, 2004b:68142**

Meisels, Amnon (*with* Schaerf, Andrea) Modelling and solving employee timetabling problems. (English summary)

Michel, Laurent (*with* Van Hentenryck, Pascal) A decomposition-based implementation of search strategies. (English summary) **2004m:68217**

Miguel, Ian (*with* Shen, Qiang) Fuzzy *rr*DFCSP and planning. (English summary)

Molloy, Michael S. O. Models for random constraint satisfaction problems. (English summary) **2004i:68197**

Monien, Burkhard *see* **Lorenz, U., (2004j:68020)**

Nagashima, Jun *see* **Sakuta, Makoto et al.**

O'Connell, Thomas C. (*with* Stearns, Richard E.) Polynomial-time mechanisms for collective decision making. (English summary) (*see* **2004h:68003**)

Packard, Dennis J. *see* **Stirling, Wynn C. et al., (2004h:68003)**

Pfeifer, Gerald *see* **Eiter, Thomas et al., (2004j:68015)**

Pistore, M. *see* **Cimatti, A. et al., 2004f:68140**

Po, N. *see* **Hayward, Ryan B. et al., (2004j:68162)**

Pollack, Martha E. *see* **Tsamardinos, Ioannis et al.**

Polleres, Axel *see* **Eiter, Thomas et al., (2004j:68015)**

Rigotti, Christophe *see* **Abdennadher, Slim, 2004m:68209**

van Rijswijck, J. *see* **Hayward, Ryan B. et al., (2004j:68162)**

de Rosis, Fiorella (*with* Covino, E.; Falcone, R.; Castelfranchi, Cristiano) Bayesian cognitive diagnosis in believable multiagent systems. (*see* **2004b:03007**)

Rossi, Francesca *see* **Bistarelli, S. et al., 2004c:68124**

Roveri, M. *see* **Cimatti, A. et al., 2004f:68140**

Roy, Amitabha *see* **Luks, Eugene M., 2004m:68216**

Sakuta, Makoto (*with* Hashimoto, Tsuyoshi; Nagashima, Jun; Uiterwijk, Jos W. H. M.; Iida, Hiroyuki) Application of the killer-tree heuristic and the lambda-search method to lines of action. (English summary)

Schaerf, Andrea *see* **Meisels, Amnon**

Schiex, Thomas *see* **Cooper, Martin C., 2004m:68210**

Serina, Ivan *see* **Gerevini, Alfonso**

Shen, Qiang *see* **Miguel, Ian**

Shimbo, Masashi (*with* Ishida, Toru) Controlling the learning process of real-time heuristic search. (English summary) **2004c:68125**

Sierra-Santibáñez, Josefina Declarative formalization of reasoning strategies: a case study on heuristic nonlinear planning. (English summary) **2004h:68120**

— Heuristic planning: a declarative approach based on strategies for action selection. (English summary)

Smirnov, Yury V. *see* **Koenig, Sven et al., 2004f:68144**

Stearns, Richard E. *see* **O'Connell, Thomas C., (2004h:68003)**

Stewart, Iain A. *see* **Feder, Tomás et al., 2004m:68212**

Stirling, Wynn C. (*with* Goodrich, Michael A.; Packard, Dennis J.) Satisficing equilibria: A non-classical theory of games and decisions. (English summary) (*see* **2004h:68003**)

Sun, Ji Gui (*with* Jing, Shen Yan) Solving non-binary constraint satisfaction problem. (Chinese. English and Chinese summaries)

Tacchella, Armando *see* **Castellini, Claudio et al., 2004e:68093**

Terrioux, Cyril *see* **Jégou, Philippe, 2004d:68143**

Tovey, Craig A. *see* **Koenig, Sven et al., 2004f:68144**
Traverso, P. *see* **Cimatti, A. et al., 2004f:68140**
Tsamardinos, Ioannis (*with* Vidal, Thierry; Pollack, Martha E.) CTP: a new constraint-based formalism for conditional, temporal planning. (English summary)
Tveretina, Olga (*with* Zantema, Hans) SAT techniques and knowledge base verification. (English summary)
Uiterwijk, Jos W. H. M. *see* **Donkers, H. H. L. M. et al.**; **Sakuta, Makoto et al.** *and* **Winands, Mark H. M. et al.**
Vane, Russell (*with* Lehner, Paul) Using hypergames to increase planned payoff and reduce risk. (English summary) (*see* **2004h:68003**)
Van Hentenryck, Pascal *see* **Michel, Laurent, 2004m:68217**
Vauzeilles, Jacqueline *see* **Kanovich, M. I., 2004m:68213**
Verbrugge, Rineke *see* **Dunin-Kęplicz, Barbara, 2004g:68153** *and* **2004j:68161**
Vidal, Thierry *see* **Tsamardinos, Ioannis et al.**
Volkov, Mikhail V. *see* **Bulatov, Andrei A. et al., 2004j:68160**
Winands, Mark H. M. (*with* Uiterwijk, Jos W. H. M.; van den Herik, H. Jaap) An effective two-level proof-number search algorithm. (English summary)
Wu, Tao *see* **Zhang, Yan Ping et al.**
Zantema, Hans *see* **Tveretina, Olga**
Zhang, Ling[1] *see* **Zhang, Yan Ping et al.**
Zhang, Yan Ping (*with* Zhang, Ling[1]; Wu, Tao) The representation of different granular worlds: a quotient space. (Chinese. English and Chinese summaries)
Zilberstein, Shlomo (*with* Charpillet, François; Chassaing, Philippe) Optimal sequencing of contract algorithms. (English summary) **2004h:68121**

Items listed otherwise than by author

Advances in computer games ★ Advances in computer games. **2004j:68162**
Graz ★ Advances in computer games. **2004j:68162**

Items with secondary classifications in 68T20

Althöfer, Ingo Improved game play by multiple computer hints. (English summary)
Angelsmark, Ola (*with* Dahllöf, Vilhelm; Jonsson, Peter) Finite domain constraint satisfaction using quantum computation. (English summary)
Anshelevich, Vadim V. The game of Hex: the hierarchical approach. (English summary) **2004b:91039**
Armando, Alessandro (*with* Rusinowitch, Michaël; Stratulat, Sorin) Incorporating decision procedures in implicit induction. (English summary) **2004a:68167**
Bazgan, Cristina (*with* Fernandez de la Vega, Wenceslao; Karpinski, Marek) Polynomial time approximation schemes for dense instances of minimum constraint satisfaction. (English summary) **2004g:68195**
Bi, Shi Fei *see* **Jiang, Ben Tie**
Bodirsky, Manuel (*with* Nešetřil, Jaroslav) Constraint satisfaction with countable homogeneous templates. (English summary) **2004m:03116**
Böbler, Elmar (*with* Hemaspaandra, Edith; Reith, Steffen; Vollmer, Heribert) Equivalence and isomorphism for Boolean constraint satisfaction. (English summary) **2004m:68085**
Börner, Ferdinand (*with* Bulatov, Andrei A.; Jeavons, Peter; Krokhin, Andrei) Quantified constraints: algorithms and complexity. (English summary) **2004k:03063**
(Boutilier, Craig) *see* **Planning with uncertainty and incomplete information**
Brown, Kenneth N. *see* **Fowler, David W., 2004c:90084**
Broxvall, Mathias (*with* Jonsson, Peter) Point algebras for temporal reasoning: algorithms and complexity. (English summary) **2004j:68163**
de Bruin, Arie (*with* Kindervater, Gerard; Vredeveld, Tjark; Wagelmans, Albert P. M.) Finding a feasible solution for a class of distributed problems with a single sum constraint using agents. (English summary) **2004a:90051**
Bruni, Renato (*with* Sassano, Antonio) A complete adaptive algorithm for propositional satisfiability. (English summary) **2004d:03021**
Bulatov, Andrei A. *see* **Börner, Ferdinand et al., 2004k:03063**
Burkhard, Hans-Dieter Similarity and distance in case based reasoning. (English summary) **2004i:68200**
Cai, Qing Sheng *see* **Han, Jing, 2004h:90107**
Carravilla, M. A. (*with* Ribeiro, Cristina; Oliveira, J. F.) Solving nesting problems with non-convex polygons by constraint logic programming. (English summary) **2004i:68022**
Chao, Yuyan *see* **He, Lifeng et al., 2004g:68150**
Chen, Huo Wang *see* **Liu, Yue et al.**
Chen, Shi Fu *see* **Gao, Yang[2] et al.**
Cooper, Martin C. Reduction operations in fuzzy or valued constraint satisfaction. (English summary) **2004b:90174**
Corominas, Albert *see* **Pastor, Rafael**
Dahllöf, Vilhelm *see* **Angelsmark, Ola et al.**
Dantsin, E. Ya. (*with* Wolpert, Alexander) Solving constraint satisfaction problems with DNA computing. (English summary)
(Dean, Thomas) *see* **Planning with uncertainty and incomplete information**
Dechter, Rina *see* **Larrosa, Javier, 2004j:90158**
Dekhtyar, Mikhail I. (*with* Dikovskiĭ, A. Ya.; Valiev, M. K.) Complexity of multi-agent systems behavior. (English summary) (*see* **2004j:68015**)
Desmedt, Yvo (*with* Wang, Yong Ge[1]) Maximum flows and critical vertices in AND/OR graphs (extended abstract). (English summary)
Dikovskiĭ, A. Ya. *see* **Dekhtyar, Mikhail I. et al., (2004j:68015**)
Dix, Jürgen (*with* Eiter, Thomas; Fink, Michael; Polleres, Axel; Zhang, Yingqian) Monitoring agents using declarative planning. (English summary) **2004m:68225**
Dovier, Agostino (*with* Piazza, Carla; Pontelli, Enrico) Disunification in *ACI*1 theories. (English summary) **2004m:03039**
Drabent, Włodzimierz (*with* Małuszyński, Jan; Pietrzak, Paweł) Using parametric set constraints for locating errors in CLP programs. (English summary)
Eiter, Thomas *see* **Dix, Jürgen et al., 2004m:68225**
Elmagarmid, Ahmed K. *see* **Hacid, Mohand-Saïd et al., 2004i:68026**
Engebretsen, Lars (*with* Guruswami, Venkatesan) Is constraint satisfaction over two variables always easy? (English summary) **2004m:68090**
Eppstein, David Searching for spaceships. (English summary) **2004b:91044**
Faltings, Boi *see* **Gelle, Esther, 2004a:90047**
Feder, Tomás (*with* Motwani, Rajeev) Worst-case time bounds for coloring and satisfiability problems. (English summary) **2004f:68045**
(Fernández, Antonio J.) *see* **Wallace, Mark G. et al.**
Fernandez de la Vega, Wenceslao *see* **Bazgan, Cristina et al., 2004g:68195**
Fetisova, A. G. *see* **Volchenkov, N. G. et al.**
Fink, Michael *see* **Dix, Jürgen et al., 2004m:68225**
Fisher, David C. On the $n \times n$ knight cover problem. (English summary) **2004h:05031**
(Fleischer, Rudolf) *see* **Algorithmic combinatorial game theory**
Foo, Norman *see* **Zhang, Dong Mo[1], (2004j:68015**)
Fowler, David W. (*with* Brown, Kenneth N.) Branching constraint satisfaction problems and Markov decision problems compared. (English summary) **2004c:90084**
(Franco, John) *see* **Renesse issue on satisfiability**
Gallagher, John P. *see* **Peralta, Julio C., (2004k:68006**)
Gamarnik, David Linear phase transition in random linear constraint satisfaction problems. (English summary) **2004m:90080**
Gao, Yang[2] (*with* Lu, Xing; Li, Ning[3]; Chen, Shi Fu) An adaptive rule-extracting algorithm in probabilistic planning. (Chinese. English and Chinese summaries)
Gelle, Esther (*with* Faltings, Boi) Solving mixed and conditional constraint satisfaction problems. (English summary) **2004a:90047**
Gérard, Sylvain *see* **Li, Chu-Min, 2004k:68146**
(Gmytrasiewicz, Piotr) *see* **Game theory and decision theory in agent-based systems, 2004h:68003**
Guruswami, Venkatesan *see* **Engebretsen, Lars, 2004m:68090**
Hacid, Mohand-Saïd (*with* Toumani, Farouk; Elmagarmid, Ahmed K.) Constraint-based approach to semistructured data. (English summary) **2004i:68026**
Han, Jing (*with* Cai, Qing Sheng) Emergence from local evaluation function. (English summary) **2004h:90107**
Harvey, Warwick *see* **Wallace, Mark G. et al.**
He, Lifeng (*with* Chao, Yuyan; Itoh, Hidenori) Eliminating redundant search space on backtracking for forward chaining theorem proving. (English summary) **2004g:68150**
He, Weiqing *see* **Marriott, Kim et al., 2004a:90106**
Hemaspaandra, Edith *see* **Böhler, Elmar et al., 2004m:68085**
Henz, Martin (*with* Yap, Roland H. C.; Lim, Yun Fong; Lua, Seet Chong; Walser, J. Paul; Shi, Xiao Ping[3]) Solving hierarchical constraints over finite domains with local search. (English summary)
(Hill, Patricia M.) *see* **Wallace, Mark G. et al.**
Hooker, John N. (*with* Ottosson, Greger) Logic-based Benders decomposition. (English summary) **2004a:90074**
Howe, Jacob M. *see* **Simon, Axel et al., (2004k:68006**)
Itoh, Hidenori *see* **He, Lifeng et al., 2004g:68150**
Jeavons, Peter *see* **Börner, Ferdinand et al., 2004k:03063**
Jiang, Ben Tie (*with* Bi, Shi Fei) A class of constraint satisfaction problems and their algorithms. (Chinese. English and Chinese summaries)
Jonsson, Peter *see* **Broxvall, Mathias, 2004j:68163** *and* **Angelsmark, Ola et al.**
(Kambhampati, Subbarao) *see* **Special Issue: Planning**
Karpinski, Marek *see* **Bazgan, Cristina et al., 2004g:68195**
Katajainen, Jyrki (*with* Madsen, Jeppe Nejsum) Performance tuning an algorithm for compressing relational tables. (English summary)
Kawaguchi, Yuuichi A common structure of logical and algebraic algorithms. (English summary) (*see* **2004k:03009**)
Kindervater, Gerard *see* **de Bruin, Arie et al., 2004a:90051**
King, Andrew Malcolm *see* **Simon, Axel et al., (2004k:68006**)
Kóczy, László Á. Finding the best way to join in: a dynamic accession game. (English summary) (*see* **2004h:68003**)
(Koenig, Sven) *see* **Planning with uncertainty and incomplete information**
Kolaitis, Phokion G. (*with* Panttaja, Jonathan) On the complexity of existential pebble games. (English summary) **2004m:03118**
Krokhin, Andrei *see* **Börner, Ferdinand et al., 2004k:03063**
Kullmann, Oliver Lean clause-sets: generalizations of minimally unsatisfiable clause-sets. (English summary) **2004i:68085**
Larrosa, Javier (*with* Dechter, Rina) Boosting search with variable elimination in constraint optimization and constraint satisfaction problems. (English summary) **2004j:90158**
Leung, Wing Kai (*with* Winfield, Mike) Implementing backpropagation with momentum, periodic weight update and gradient descent on steepness. (English summary) (*see* **2004h:00017**)
Levesque, Hector J. *see* **Scherl, Richard B., 2004a:68131**
Li, Chu-Min Equivalent literal propagation in the DLL procedure. (English summary) **2004i:68193**
— (*with* Gérard, Sylvain) On the limit of branching rules for hard random unsatisfiable 3-SAT. (English summary) **2004k:68146**
Li, Ning[3] *see* **Gao, Yang[2] et al.**
(Lieserson, Charles E.) *see* **Newborn, Monty, 2004k:68002**
Lim, Yun Fong *see* **Henz, Martin et al.**
Liu, Yue (*with* Chen, Huo Wang; Wang, Huai Min) A theory of reactive multi-agent cooperation. (Chinese. English and Chinese summaries)
Lu, Xing *see* **Gao, Yang[2] et al.**
Lua, Seet Chong *see* **Henz, Martin et al.**
Lynce, Inês (*with* Marques-Silva, João P.) An overview of backtrack search satisfiability algorithms. (English summary) **2004d:68141**
(van Maaren, Hans) *see* **Renesse issue on satisfiability**
Mackworth, Alan K. (*with* Zhang, Ying[3]) A formal approach to agent design: an overview of constraint-based agents. (English summary)
Madsen, Jeppe Nejsum *see* **Katajainen, Jyrki**
Małuszyński, Jan *see* **Drabent, Włodzimierz et al.**
Marques-Silva, João P. *see* **Lynce, Inês, 2004d:68141**
Marriott, Kim (*with* Stuckey, Peter J.; Tam, Vincent; He, Weiqing) Removing node overlapping in graph layout using constrained optimization. (English summary) **2004a:90106**

Mäser, Fabian Global threats in combinatorial games: a computation model with applications to chess endgames. (English summary) **2004b:91049**
Mesnard, Fred (*with* Ruggieri, Salvatore) On proving left termination of constraint logic programs. (English summary) **2004e:68014**
(Milano, Michela) *see* **Constraint and integer programming, 2004k:90007**
(Morgenstern, Leora) *see* **Foundations of artificial intelligence**
Motwani, Rajeev *see* **Feder, Tomás, 2004f:68045**
Müller, Martin[2] (*with* Tegos, Theodore) Experiments in computer Amazons. (English summary) **2004b:91050**
— Conditional combinatorial games and their application to analyzing capturing races in Go. (English summary)
Mustafa, Nabil H. (*with* Pekeč, Aleksandar) Majority consensus and the local majority rule. (English summary)
(Nareyek, Alexander) *see* **Special Issue: Planning**
Nešetřil, Jaroslav *see* **Bodirsky, Manuel, 2004m:03116**
Newborn, Monty ★ Deep Blue. **2004k:68002**
Nielsen, Mogens (*with* Valencia, Frank D.) Temporal concurrent constraint programming: applications and behavior. (English summary) (*see* **2004j:00032**)
(Nowakowski, Richard J.) *see* **Algorithmic combinatorial game theory**
Oliveira, J. F. *see* **Carravilla, M. A. et al., 2004i:68022**
Osipov, G. S. *see* **Vinogradov, A. N. et al.**
Ottosson, Greger *see* **Hooker, John N., 2004a:90074**
Panttaja, Jonathan *see* **Kolaitis, Phokion G., 2004m:03118**
(Parsons, Simon) *see* **Game theory and decision theory in agent-based systems, 2004h:68003**
Pastor, Rafael (*with* Corominas, Albert) Branch and Win: OR tree search algorithms for solving combinatorial optimisation problems. (English summary)
Pchelkin, Arthur Efficient exploration in reinforcement learning based on utile suffix memory. (English and Lithuanian summaries)
Pekeč, Aleksandar *see* **Mustafa, Nabil H.**
Peralta, Julio C. (*with* Gallagher, John P.) Convex hull abstractions in specialization of CLP programs. (English summary) (*see* **2004k:68006**)
Piazza, Carla *see* **Dovier, Agostino et al., 2004m:03039**
Pietrzak, Paweł *see* **Drabent, Włodzimierz et al.**
Polleres, Axel *see* **Dix, Jürgen et al., 2004m:68225**
Pontelli, Enrico *see* **Dovier, Agostino et al., 2004m:03039**
Popov, S. V. *see* **Volchenkov, N. G. et al.**
Ratschan, Stefan Convergent approximate solving of first-order constraints by approximate quantifiers. (English summary) **2004m:03047**
Reith, Steffen (*with* Vollmer, Heribert) Optimal satisfiability for propositional calculi and constraint satisfaction problems. (English summary) **2004h:68058**
— *see also* **Böhler, Elmar et al., 2004m:68085**
Ribeiro, Cristina *see* **Carravilla, M. A. et al., 2004i:68022**
Ruggieri, Salvatore *see* **Mesnard, Fred, 2004e:68014**
Rusinowitch, Michaël *see* **Armando, Alessandro et al., 2004a:68167**
Sassano, Antonio *see* **Bruni, Renato, 2004d:03021**
Scherl, Richard B. (*with* Levesque, Hector J.) Knowledge, action, and the frame problem. (English summary) **2004a:68131**
Schimpf, Joachim *see* **Wallace, Mark G. et al.**
Sebag, Michèle Genetic programming applied to model identification. (English summary) (*see* **2004a:62011**)
Shen, Kish *see* **Wallace, Mark G. et al.**
Shi, Xiao Ping[3] *see* **Henz, Martin et al.**
(Shimony, Solomon Eyal) *see* **Foundations of artificial intelligence**
Simon, Axel (*with* King, Andrew Malcolm; Howe, Jacob M.) Two variables per linear inequality as an abstract domain. (English summary) (*see* **2004k:68006**)
Smirnov, A. A. *see* **Volchenkov, N. G. et al.**
(Speckenmeyer, Ewald) *see* **Renesse issue on satisfiability**
Stewart, Iain A. The complexity of achievement and maintenance problems in agent-based systems. (English summary) **2004d:68058**
Stratulat, Sorin *see* **Armando, Alessandro et al., 2004a:68167**
Stuckey, Peter J. *see* **Marriott, Kim et al., 2004a:90106**
Szeider, Stefan Homomorphisms of conjunctive normal forms. (English summary) **2004i:03021**
Tam, Vincent *see* **Marriott, Kim et al., 2004a:90106**
Tegos, Theodore *see* **Müller, Martin[2], 2004b:91050**
Tini, Simone An axiomatic semantics for the synchronous language Gentzen. (English summary) **2004c:68016**
Tompits, Hans Expressing default abduction problems as quantified Boolean formulas. (English summary) **2004e:68099**
Toumani, Farouk *see* **Hacid, Mohand-Saïd et al., 2004i:68026**
Turner, Hudson Polynomial-length planning spans the polynomial hierarchy. (English summary) (*see* **2004j:68015**)
Valencia, Frank D. *see* **Nielsen, Mogens, (2004j:00032)**
Valiev, M. K. *see* **Dekhtyar, Mikhail I. et al., (2004j:68015)**
Vinogradov, A. N. (*with* Zhilyakova, L. Yu.; Osipov, G. S.) Dynamic intelligent systems. II. Modeling task-oriented behavior. (Russian. Russian summary)
Volchenkov, N. G. (*with* Popov, S. V.; Smirnov, A. A.; Fetisova, A. G.) A logical modeling system. (Russian. Russian summary)
Vollmer, Heribert *see* **Reith, Steffen, 2004h:68058** *and* **Böhler, Elmar et al., 2004m:68085**
Vredeveld, Tjark *see* **de Bruin, Arie et al., 2004a:90051**
Wagelmans, Albert P. M. *see* **de Bruin, Arie et al., 2004a:90051**
Wallace, Mark G. (*with* Schimpf, Joachim; Shen, Kish; Harvey, Warwick) On benchmarking constraint logic programming platforms. Response to: "A comparative study of eight constraint programming languages over the Boolean and finite domains" [Constraints **5** (2000), no. 3, 275–301] by A. J. Fernández and P. M. Hill. (English summary)
Walser, J. Paul *see* **Henz, Martin et al.**
Wang, Huai Min *see* **Liu, Yue et al.**
Wang, Jinchang A weight-balanced branching rule for SAT. (English summary) **2004g:68063**
Wang, Yong Ge[1] *see* **Desmedt, Yvo**
Winfield, Mike *see* **Leung, Wing Kai, (2004h:00017)**
Wolpert, Alexander *see* **Dantsin, E. Ya.**
(Wooldridge, Michael) *see* **Game theory and decision theory in agent-based systems, 2004h:68003**
Yap, Roland H. C. *see* **Henz, Martin et al.**
Zhang, Dong Mo[1] (*with* Foo, Norman) Interpolation properties of action logic: lazy-formalization to the frame problem. (English summary) (*see* **2004j:68015**)
Zhang, Ying[3] *see* **Mackworth, Alan K.**
Zhang, Yingqian *see* **Dix, Jürgen et al., 2004m:68225**
Zhilyakova, L. Yu. *see* **Vinogradov, A. N. et al.**

Items listed otherwise than by author

Algorithmic combinatorial game theory ★ Algorithmic combinatorial game theory.
Constraint and integer programming ★ Constraint and integer programming. **2004k:90007**
Dagstuhl ★ Algorithmic combinatorial game theory.
Foundations of artificial intelligence ★ Foundations of artificial intelligence VI.
Game theory and decision theory in agent-based systems ★ Game theory and decision theory in agent-based systems. **2004h:68003**
Heuristic search and computer game playing ★ Heuristic search and computer game playing. III.
Planning with uncertainty and incomplete information ★ Planning with uncertainty and incomplete information.
Renesse ★ The Renesse issue on satisfiability.
Renesse issue on satisfiability ★ The Renesse issue on satisfiability.
Special Issue:
Planning ★ Special issue on planning.
Workshop:
Satisfiability ★ The Renesse issue on satisfiability.

68T27 Logic in artificial intelligence

Akın, H. Levent *see* **Say, A. C. Cem, 2004h:68131**
Amgoud, Leila (*with* Cayrol, Claudette) Inferring from inconsistency in preference-based argumentation frameworks. (English summary) **2004f:68145**
— *see also* **Parsons, Simon et al., 2004h:68130**
Amir, Eyal Object-oriented first-order logic. (English summary) **2004d:68144**
— (*with* Maynard-Zhang, Pedrito) Logic-based subsumption architecture. (English summary)
Artale, Alessandro (*with* Franconi, Enrico; Wolter, Frank; Zakhar′yashchev, M. V.) A temporal description logic for reasoning over conceptual schemas and queries. (English summary) (*see* **2004j:68015**)
Baader, Franz (*with* Lutz, Carsten; Sturm, Holger; Wolter, Frank) Fusions of description logics and abstract description systems. (English summary) **2004d:68145**
Balbiani, Philippe (*with* Condotta, Jean-François) Computational complexity of propositional linear temporal logics based on qualitative spatial or temporal reasoning. (English summary) **2004b:68143**
— (*with* Vakarelov, Dimit′r) A modal logic for indiscernibility and complementarity in information systems. (English summary) **2004f:68146**
Beierle, Christoph (*with* Kern-Isberner, Gabriele) Using institutions for the study of qualitative and quantitative conditional logics. (English summary) (*see* **2004j:68015**)
Bench-Capon, Trevor J. M. Persuasion in practical argument using value-based argumentation frameworks. (English summary) **2004i:68198**
— *see also* **Dunne, Paul E., 2004i:68204**
Benferhat, Salem (*with* Dubois, Didier; Prade, Henri) A computational model for belief change and fusing ordered belief bases. **2004e:68096**
— (*with* Kaci, Souhila; Le Berre, Daniel; Williams, Mary-Anne) Weakening conflicting information for iterated revision and knowledge integration. (English summary) **2004m:68218**
Bennett, Brandon A categorical axiomatisation of region-based geometry. (English summary)
— (*with* Galton, Antony P.) A unifying semantics for time and events. (English summary) **2004m:68219**
Besnard, Philippe (*with* Schaub, Torsten; Tompits, Hans; Woltran, Stefan) Paraconsistent reasoning via quantified Boolean formulas. I. Axiomatising signed systems. (English summary) (*see* **2004j:68015**)
Bittner, Thomas Approximate qualitative temporal reasoning. (English summary) **2004e:68097**
Bonatti, Piero A. Towards service description logics. (English summary) (*see* **2004j:68015**)
Bos, André *see* **de Weerdt, Mathijs et al., 2004b:68146**
Bouchon-Meunier, Bernadette (*with* Mesiar, Radko; Marsala, Christophe; Rifqi, Maria) Compositional rule of inference as an analogical scheme. (English summary) **2004h:68122**
Bouquet, Paolo *see* **Serafini, Luciano, 2004m:68223**
Bourne, Rachel A. (*with* Parsons, Simon) Extending the maximum entropy approach to variable strength defaults. (English summary) **2004h:68123**
Brazier, Frances (*with* Cornelissen, Frank; Gustavsson, Rune; Jonker, Catholijn M.; Lindeberg, Olle; Polak, Bianca; Treur, Jan) Compositional verification of a multi-agent system for one-to-many negotiation.
Broersen, Jan (*with* Wieringa, Roel; Meyer, John-Jules Ch.) A fixed-point characterization of a deontic logic of regular action. (English summary) **2004i:68199**
Broxvall, Mathias (*with* Jonsson, Peter) Point algebras for temporal reasoning: algorithms and complexity. (English summary) **2004j:68163**
Burkhard, Hans-Dieter Similarity and distance in case based reasoning. (English summary) **2004i:68200**
Burrieza, Alfredo (*with* de Guzman, Inmaculada P.) A temporal × modal approach to the definability of properties of functions. (English summary) **2004a:68129**
Carmo, José (*with* Pacheco, Olga) Deontic and action logics for organized collective agency, modeled through institutionalized agents and roles. (English summary) **2004i:68201**

— (*with* Demolombe, Robert; Jones, Andrew J. I.) An application of deontic logic to information system constraints. (English summary) **2004i:68202**
Cayrol, Claudette (*with* Doutre, Sylvie; Mengin, Jerome) On decision problems related to the preferred semantics for argumentation frameworks. (English summary) **2004i:68203**
— *see also* **Amgoud, Leila**, **2004f:68145**
Chen, Huo Wang *see* **Liu, Yue et al.**
Chen, Tao-Lue *see* **Li, Bin et al.**
Claramunt, Christophe (*with* Thériault, Marius) Fuzzy semantics for direction relations between composite regions. (English summary)
Cohn, Anthony G. (*with* Hazarika, S. M.) Qualitative spatial representation and reasoning: an overview. (English summary)
Condotta, Jean-François *see* **Balbiani, Philippe**, **2004b:68143**
Cornelissen, Frank *see* **Brazier, Frances et al.**
da Costa, Newton C. A. (*with* Krause, Décio) An inductive annotated logic. (English summary) **2004h:68124**
Dai, Guo Zhong *see* **Luan, Shang Min**, **2004d:68148**
Davis, Ernest Continuous shape transformation and metrics on regions. (English summary)
Delgrande, James P. (*with* Schaub, Torsten) A consistency-based approach for belief change. (English summary) **2004k:68149**
— (*with* Schaub, Torsten) Reasoning with sets of defaults in default logic. (English summary) **2004k:68150**
Demolombe, Robert *see* **Carmo, José et al.**, **2004i:68202**
Denecker, Marc (*with* Marek, Victor W.; Truszczyński, Mirosław) Uniform semantic treatment of default and autoepistemic logics. (English summary) **2004f:68147**
Deng, Yong (*with* Liu, Qi; Shi, Wen Kang) A review on theory of conditional event algebra. (Chinese. English and Chinese summaries)
Dignum, Frank (*with* van Linder, Bernd) Modelling social agents: towards deliberate communication.
Ding, De-Cheng *see* **Zhao, Xi-Shun**, **2004g:68159** *and* **2004g:68161**
Doherty, Patrick *see* **Meyer, John-Jules Ch.**
Dong, Ming Kai (*with* Jiang, Yun Cheng; Shi, Zhong Zhi) A description logic with default reasoning. (Chinese. English and Chinese summaries) **2004h:68125**
Doutre, Sylvie *see* **Cayrol, Claudette et al.**, **2004i:68203**
Dragoni, Aldo Franco (*with* Giorgini, Paolo) Revising beliefs received from multiple sources. (*see* **2004b:03007**)
Dubois, Didier *see* **Benferhat, Salem et al.**, **2004e:68096**
Dunne, Paul E. (*with* Bench-Capon, Trevor J. M.) Two party immediate response disputes: properties and efficiency. (English summary) **2004i:68204**
Düntsch, Ivo (*with* Orłowska, Ewa; Wang, Hui[6]) Algebras of approximating regions. (English summary)
Eiter, Thomas (*with* Makino, Kazuhisa) Generating all abductive explanations for queries on propositional Horn theories. (English summary) **2004m:68220**
Falappa, Marcelo A. (*with* Kern-Isberner, Gabriele; Simari, Guillermo R.) Explanations, belief revision and defeasible reasoning. (English summary) **2004f:68148**
Fan, Tuan-Fang (*with* Liau, Churn-Jung; Yao, Y. Y.) On modal and fuzzy decision logics based on rough set theory. (English summary) **2004g:68154**
Fasli, Maria Reasoning about knowledge and belief: a syntactical treatment. (English summary) **2004d:68146**
Foo, Norman (*with* Zhang, Dong Mo[1]) Dealing with the ramification problem in extended propositional dynamic logic. (English summary) **2004j:68164**
— *see also* **Zhang, Dong Mo[1]**, (**2004j:68015**)
Franconi, Enrico *see* **Artale, Alessandro et al.**, (**2004j:68015**)
Freund, Michael[2] On the revision of preferences and rational inference processes. (English summary) **2004j:68165**
Gabbay, Dov M. (*with* Woods, John Hayden) Normative models of rational agency: the theoretical disutility of certain approaches. (English summary)
Galton, Antony P. Dominance diagrams: a tool for qualitative reasoning about continuous systems. (English summary)
— *see also* **Bennett, Brandon**, **2004m:68219**
Garcia, Laurent *see* **Khayata, Mohamed Yasser et al.**, **2004k:68152**
Giordano, Laura (*with* Schwind, Camilla) Towards a conditional logic of actions and causation. (English summary) (*see* **2004j:68015**)
Giorgini, Paolo *see* **Dragoni, Aldo Franco**, (**2004b:03007**)
Godo, Lluís *see* **Sierra, Carles et al.**
Governatori, Guido (*with* Padmanabhan, Vineet; Sattar, Abdul) On fibring semantics for BDI logics. (English summary) (*see* **2004j:68015**)
Gustavsson, Rune *see* **Brazier, Frances et al.**
de Guzman, Inmaculada P. *see* **Burrieza, Alfredo**, **2004a:68129**
Hájek, Petr[1] (*with* Holeňa, Martin) Formal logics of discovery and hypothesis formation by machine. (English summary) **2004b:68144**
Halpern, Joseph Y. (*with* Shore, Richard A.) Reasoning about common knowledge with infinitely many agents. (English summary) **2004m:68221**
Hansen, Helle Hvid (*with* Pauly, Marc[2]) Axiomatising Nash-consistent coalition logic. (English summary) (*see* **2004j:68015**)
Hazarika, S. M. *see* **Cohn, Anthony G.**
Heinemann, Bernhard Knowledge over dense flows of time (from a hybrid point of view). (English summary) (*see* **2004j:68011**)
Hendricks, Vincent F. Active agents. (English summary) **2004h:68126**
Hill, Lee C. (*with* Paris, Jeff B.) When maximizing entropy gives the rational closure. (English summary) **2004c:68126**
Ho, T. B. *see* **Huynh Van Nam et al.**
van der Hoek, Wiebe (*with* Wooldridge, Michael) Towards a logic of rational agency. (English summary) **2004e:68098**
— *see also* **van Linder, Bernd et al.** *and* **Meyer, John-Jules Ch. et al.**
Holeňa, Martin *see* **Hájek, Petr[1]**, **2004b:68144**
Huynh Van Nam (*with* Nakamori, Yoshiteru; Ho, T. B.; Resconi, Germano) A context model for fuzzy concept analysis based upon modal logic. (English summary)
Jaam, Jihad Mohamad *see* **Khayata, Mohamed Yasser et al.**, **2004k:68151** *and* **2004k:68152**
Janhunen, Tomi Evaluating the effect of semi-normality on the expressiveness of defaults. (English summary) **2004a:68130**
Jiang, Yun Cheng *see* **Dong, Ming Kai et al.**, **2004h:68125**
Jones, Andrew J. I. *see* **Carmo, José et al.**, **2004i:68202**
Jonker, Catholijn M. (*with* Treur, Jan; de Vries, Wieke) Reuse and abstraction in verification: agents acting in dynamic environments.
— *see also* **Brazier, Frances et al.**
Jonsson, Peter *see* **Broxvall, Mathias**, **2004j:68163**
Kaci, Souhila *see* **Benferhat, Salem et al.**, **2004m:68218**
Kacprzak, Magdalena Undecidability of a multi-agent logic. (English summary) **2004i:68205**
Katarzyniak, Radosław Piotr (*with* Pieczyńska-Kuchtiak, Agnieszka) Grounding and extracting modal responses in cognitive agents: 'AND' query and states of incomplete knowledge. (English summary)
Kern-Isberner, Gabriele *see* **Falappa, Marcelo A. et al.**, **2004f:68148** *and* **Beierle, Christoph**, (**2004j:68015**)
Khayata, Mohamed Yasser (*with* Jaam, Jihad Mohamad) A qualitative approach to direct inference principle. (English and Arabic summaries) **2004k:68151**
— (*with* Pacholczyk, Daniel; Garcia, Laurent; Jaam, Jihad Mohamad) Qualitative dealing with quantified assertions. (English and Arabic summaries) **2004k:68152**
Konieczny, Sébastien (*with* Marquis, Pierre) Three-valued logics for inconsistency handling. (English summary) (*see* **2004j:68015**)
Krause, Décio *see* **da Costa, Newton C. A.**, **2004h:68124**
Lang, Jérôme (*with* Liberatore, Paolo; Marquis, Pierre) Propositional independence: formula-variable independence and forgetting. (English summary) **2004f:68149**
Le Berre, Daniel *see* **Benferhat, Salem et al.**, **2004m:68218**
Levesque, Hector J. *see* **Scherl, Richard B.**, **2004a:68131**
Li, Bin (*with* Zhu, Zhao-Hui; Chen, Tao-Lue; Lü, Jian; Zhu, Wu-Jia) Two-dimensional intention structure based on relation structure. (English and Chinese summaries)
Li, San Jiang (*with* Ying, Ming-Sheng) Region connection calculus: its models and composition table. (English summary) **2004c:68127**
— (*with* Ying, Ming-Sheng) Extensionality of the RCC8 composition table. (English summary) **2004g:68155**
Liau, Churn-Jung (*with* Liu, Duen-Ren) A possibilistic decision logic with applications. (English summary) **2004g:68156**
— Belief, information acquisition, and trust in multi-agent systems—a modal logic formulation. (English summary) **2004h:68127**
— *see also* **Fan, Tuan-Fang et al.**, **2004g:68154**
Liberatore, Paolo *see* **Lang, Jérôme et al.**, **2004f:68149** *and* **Zhao, Xi-Shun**, **2004g:68160**
Lindeberg, Olle *see* **Brazier, Frances et al.**
van Linder, Bernd (*with* van der Hoek, Wiebe; Meyer, John-Jules Ch.) Formalising abilities and opportunities of agents.
— (*with* van der Hoek, Wiebe; Meyer, John-Jules Ch.) Seeing is believing and so are hearing and jumping.
— *see also* **Meyer, John-Jules Ch. et al.** *and* **Dignum, Frank**
Liu, Da You[2] (*with* Wang, Song Xin; Wang, Fei[1]) Open logic based on a complete preorder. (Chinese. English and Chinese summaries) **2004b:68145**
Liu, Duen-Ren *see* **Liau, Churn-Jung**, **2004g:68156**
Liu, Qi *see* **Deng, Yong et al.**
Liu, Yue (*with* Chen, Huo Wang; Wang, Huai Min) A theory of reactive multi-agent cooperation. (Chinese. English and Chinese summaries)
Lloyd, John Predicate construction in higher-order logic. (English summary) **2004d:68147**
López de Mántaras, Ramon *see* **Sierra, Carles et al.**
Lü, Jian *see* **Li, Bin et al.**
Luan, Shang Min (*with* Dai, Guo Zhong) An approach to the revision of a finite belief set. (Chinese. English and Chinese summaries) **2004d:68148**
Łukaszewicz, Witold (*with* Madalińska-Bugaj, Ewa) Reasoning about action and change using Dijkstra's semantics for programming languages.
— (*with* Madalińska-Bugaj, Ewa) Reasoning about action and change: actions with abnormal effects.
Lupea, Mihaiela Semantics for constrained and rational default logics. (English summary)
— DARR—a theorem prover for constrained and rational default logic. (English summary)
Lutz, Carsten Combining interval-based temporal reasoning with general TBoxes. (English summary) **2004k:68153**
— *see also* **Baader, Franz et al.**, **2004d:68145**
Madalińska-Bugaj, Ewa *see* **Łukaszewicz, Witold**
Makino, Kazuhisa *see* **Eiter, Thomas**, **2004m:68220**
Manzano, Maria *see* **Sierra, Carles et al.**
Marek, Victor W. *see* **Denecker, Marc et al.**, **2004f:68147**
Marquis, Pierre *see* **Lang, Jérôme et al.**, **2004f:68149** *and* **Konieczny, Sébastien**, (**2004j:68015**)
Marsala, Christophe *see* **Bouchon-Meunier, Bernadette et al.**, **2004h:68122**
Martelli, Maurizio *see* **Mascardi, Viviana et al.**
Martinez, Maricarmen Towards a model of heterogeneous commonsense reasoning. (English summary) **2004h:68128**
Mascardi, Viviana (*with* Martelli, Maurizio; Sterling, Leon) Logic-based specification languages for intelligent software agents. (English summary)
Maynard-Zhang, Pedrito *see* **Amir, Eyal**
Mazlack, Lawrence J. Imperfect causality. (English summary)
Mengin, Jerome *see* **Cayrol, Claudette et al.**, **2004i:68203**
Mesiar, Radko *see* **Bouchon-Meunier, Bernadette et al.**, **2004h:68122**
Meyer, John-Jules Ch. (*with* van der Hoek, Wiebe; van Linder, Bernd) Motivational attitudes in the KARO framework.
— (*with* Doherty, Patrick) Preferential action semantics.
— *see also* **Broersen, Jan et al.**, **2004i:68199** *and* **van Linder, Bernd et al.**
Montanari, Angelo (*with* Sciavicco, Guido; Vitacolonna, Nicola) Decidability of interval temporal logics over split-frames via granularity. (English summary) (*see* **2004j:68015**)
Nakamori, Yoshiteru *see* **Huynh Van Nam et al.**
Nayak, Abhaya C. (*with* Pagnucco, Maurice; Peppas, Pavlos) Dynamic belief revision operators. (English summary) **2004m:68222**
Orłowska, Ewa *see* **Düntsch, Ivo et al.**

Pacheco, Olga *see* **Carmo, José, 2004i:68201**
Pacholczyk, Daniel *see* **Khayata, Mohamed Yasser et al., 2004k:68152**
Padmanabhan, Vineet *see* **Governatori, Guido et al., (2004j:68015)**
Pagnucco, Maurice *see* **Nayak, Abhaya C. et al., 2004m:68222**
Palopoli, Luigi (*with* Terracina, Giorgio; Ursino, Domenico) A plausibility description logic for handling information sources with heterogeneous data representation formats. (English summary) **2004i:68206**
Parikh, Rohit (*with* Ramanujam, Ramaswamy) A knowledge based semantics of messages. (English summary) **2004h:68129**
Paris, Jeff B. *see* **Hill, Lee C., 2004c:68126**
Parsons, Simon (*with* Wooldridge, Michael; Amgoud, Leila) Properties and complexity of some formal inter-agent dialogues. (English summary) **2004h:68130**
— *see also* **Bourne, Rachel A., 2004h:68123**
Pauly, Marc[2] *see* **Hansen, Helle Hvid, (2004j:68015)**
Peppas, Pavlos *see* **Nayak, Abhaya C. et al., 2004m:68222**
Pieczyńska-Kuchtiak, Agnieszka *see* **Katarzyniak, Radosław Piotr**
Pino-Pérez, Ramón (*with* Uzcátegui A., Carlos E.) Preferences and explanations. (English summary) **2004g:68157**
Polak, Bianca *see* **Brazier, Frances et al.**
Polkowski, Lech On spatial reasoning via rough mereology. (English summary) (*see* **2004i:00018**)
Pollack, Martha E. *see* **Tsamardinos, Ioannis, 2004i:68209**
Pontelli, Enrico *see* **Son, Tran Cao, (2004j:68015)**
Prade, Henri *see* **Benferhat, Salem et al., 2004e:68096**
Ramanujam, Ramaswamy *see* **Parikh, Rohit, 2004h:68129**
Resconi, Germano *see* **Huynh Van Nam et al.**
Richards, Fiona *see* **Sergot, Marek, 2004i:68208**
Rifqi, Maria *see* **Bouchon-Meunier, Bernadette et al., 2004h:68122**
Rodrigues, Odinaldo Structured clusters: a framework to reason with contradictory interests. (English summary) **2004k:68154**
van Rooy, Robert Quality and quantity of information exchange. (English summary) **2004i:68207**
Rosati, Riccardo Minimal belief and negation as failure in multi-agent systems. (English summary) **2004g:68158**
Sattar, Abdul *see* **Governatori, Guido et al., (2004j:68015)**
Say, A. C. Cem (*with* Akın, H. Levent) Sound and complete qualitative simulation is impossible. (English summary) **2004h:68131**
Schaub, Torsten *see* **Delgrande, James P., 2004k:68149; 2004k:68150** *and* **Besnard, Philippe et al., (2004j:68015)**
Scherl, Richard B. (*with* Levesque, Hector J.) Knowledge, action, and the frame problem. (English summary) **2004a:68131**
Schmidt, Renate A. (*with* Tishkovskiĭ, D. E.) Multi-agent logics of dynamic belief and knowledge. (English summary) (*see* **2004j:68015**)
Schwind, Camilla *see* **Giordano, Laura, (2004j:68015)**
Sciavicco, Guido *see* **Montanari, Angelo et al., (2004j:68015)**
Segerberg, Krister Outline of a logic of action. (English summary) **2004j:68166**
Serafini, Luciano (*with* Bouquet, Paolo) Comparing formal theories of context in AI. (English summary) **2004m:68223**
Sergot, Marek (*with* Richards, Fiona) On the representation of action and agency in the theory of normative positions. (English summary) **2004i:68208**
Shanahan, Murray An attempt to formalise a non-trivial benchmark problem in common sense reasoning. (English summary)
Shi, Wen Kang *see* **Deng, Yong et al.**
Shi, Zhong Zhi *see* **Dong, Ming Kai et al., 2004h:68125**
Shore, Richard A. *see* **Halpern, Joseph Y., 2004m:68221**
Sierra, Carles (*with* Godo, Lluís; López de Mántaras, Ramon; Manzano, Maria) Descriptive dynamic logic and its application to reflective architectures.
Simari, Guillermo R. *see* **Falappa, Marcelo A. et al., 2004f:68148**
Sofronie-Stokkermans, Viorica On uniform word problems involving bridging operators on distributive lattices. (English summary) (*see* **2004k:68003**)
Son, Tran Cao (*with* Pontelli, Enrico) Reasoning about actions in prioritized default theory. (English summary) (*see* **2004j:68015**)
Sterling, Leon *see* **Mascardi, Viviana et al.**
Sturm, Holger *see* **Baader, Franz et al., 2004d:68145**
Terracina, Giorgio *see* **Palopoli, Luigi et al., 2004i:68206**
Thériault, Marius *see* **Claramunt, Christophe**
Tishkovskiĭ, D. E. *see* **Schmidt, Renate A., (2004j:68015)**
Tompits, Hans Expressing default abduction problems as quantified Boolean formulas. (English summary) **2004e:68099**
— *see also* **Besnard, Philippe et al., (2004j:68015)**
Tonino, Hans *see* **de Weerdt, Mathijs et al., 2004b:68146**
van der Torre, Leendert Contextual deontic logic: normative agents, violations and independence. (English summary) **2004f:68150**
Treur, Jan *see* **Jonker, Catholijn M. et al.** *and* **Brazier, Frances et al.**
Truszczyński, Mirosław *see* **Denecker, Marc et al., 2004f:68147**
Tsamardinos, Ioannis (*with* Pollack, Martha E.) Efficient solution techniques for disjunctive temporal reasoning problems. (English summary) **2004i:68209**
Ursino, Domenico *see* **Palopoli, Luigi et al., 2004i:68206**
Uzcátegui A., Carlos E. *see* **Pino-Pérez, Ramón, 2004g:68157**
Vakarelov, Dimit″r *see* **Balbiani, Philippe, 2004f:68146**
Verheij, Bart DefLog: on the logical interpretation of prima facie justified assumptions. (English summary) **2004h:68132**
Vitacolonna, Nicola *see* **Montanari, Angelo et al., (2004j:68015)**
de Vries, Wieke *see* **Jonker, Catholijn M. et al.**
Wang, Fei[1] *see* **Liu, Da You[2] et al., 2004b:68145**
Wang, Huai Min *see* **Liu, Yue et al.**
Wang, Hui[6] *see* **Düntsch, Ivo et al.**
Wang, Song Xin *see* **Liu, Da You[2] et al., 2004b:68145**
de Weerdt, Mathijs (*with* Bos, André; Tonino, Hans; Witteveen, Cees) A resource logic for multi-agent plan merging. (English summary) **2004b:68146**
White, G. Graham A modal formulation of McCain and Turner's theory of causal reasoning. (English summary) (*see* **2004j:68015**)
Wieringa, Roel *see* **Broersen, Jan et al., 2004i:68199**
Williams, Mary-Anne An operational measure of similarity based on change. **2004e:68100**
— *see also* **Benferhat, Salem et al., 2004m:68218**
Witteveen, Cees *see* **de Weerdt, Mathijs et al., 2004b:68146**
Wolter, Frank *see* **Baader, Franz et al., 2004d:68145** *and* **Artale, Alessandro et al., (2004j:68015)**
Woltran, Stefan *see* **Besnard, Philippe et al., (2004j:68015)**
Woods, John Hayden *see* **Gabbay, Dov M.**
Wooldridge, Michael *see* **van der Hoek, Wiebe, 2004e:68098** *and* **Parsons, Simon et al., 2004h:68130**
Yamamoto, Akihiro Hypothesis finding based on upward refinement of residue hypotheses. (English summary) **2004e:68101**
Yao, Y. Y. *see* **Fan, Tuan-Fang et al., 2004g:68154**
Ying, Ming-Sheng *see* **Li, San Jiang, 2004c:68127** *and* **2004g:68155**
Zakhar′yashchev, M. V. *see* **Artale, Alessandro et al., (2004j:68015)**
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— *see also* **Foo, Norman, 2004j:68164**
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Zhang, Ying *see* **Zhang, Ming Yi, 2004h:68133**
Zhao, Xi-Shun (*with* Ding, De-Cheng) Complexity results for 2CNF default theories. (English summary)
— (*with* Ding, De-Cheng) Some algorithms for extension computation of nonmonotonic rule systems. (English summary) **2004g:68159**
— (*with* Liberatore, Paolo) Complexity of the unique extension problem in default logic. (English summary) **2004g:68160**
— Complexity of argument-based default reasoning with specificity. (English summary) **2004e:68102**
— (*with* Ding, De-Cheng) A method of finding priorities in default theories. (English and Chinese summaries) **2004g:68161**
— Regular disjunction-free default theories. (English summary)
Zhu, Wu-Jia *see* **Li, Bin et al.**
Zhu, Zhao-Hui *see* **Li, Bin et al.**

Items with secondary classifications in 68T27

Aiello, Marco (*with* van Benthem, Johan; Bezhanishvili, Guram) Reasoning about space: the modal way. (English summary) **2004m:03072**
Aliseda, Atocha Mathematical reasoning vs. abductive reasoning: a structural approach. **2004a:03035**
Amir, Eyal Toward a formalization of elaboration tolerance: adding and deleting axioms. **2004f:03017**
— Interpolation theorems for nonmonotonic reasoning systems. (English summary) (*see* **2004j:68015**)
Areces, Carlos (*with* Becher, Verónica) Iterable AGM functions. **2004e:03024**
— (*with* de Rijke, Maarten) From description to hybrid logics, and back. (English summary) **2004i:03053**
Arieli, Ofer (*with* Denecker, Marc) Reducing preferential paraconsistent reasoning to classical entailment. (English summary) **2004g:03043**
Audibert, Laurent (*with* Schlechta, Karl) Defeasible inheritance and reference classes. **2004e:03043**
Baader, Franz (*with* Nutt, Werner) Basic description logics. (English summary) **2004g:68163**
— (*with* Küsters, Ralf; Wolter, Frank) Extensions to description logics. (English summary) **2004g:68162**
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Balbiani, Philippe (*with* Goranko, Valentin) Modal logics for parallelism, orthogonality, and affine geometries. (English summary) **2004b:03037**
Batens, Diderik (*with* Haesaert, Lieven) On classical adaptive logics of induction. (English summary) **2004h:03060**
Becher, Verónica *see* **Areces, Carlos, 2004e:03024**
Belnap, Nuel D. Double time references: speech-act reports as modalities in an indeterminist setting. (English summary) (*see* **2004f:03004**)
Benferhat, Salem (*with* Dubois, Didier; Lagrue, Sylvain; Papini, Odile) Making revision reversible: an approach based on polynomials. (English summary) **2004g:03028**
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Bennett, Brandon *see* **Torrini, Paolo et al., 2004c:03028**
van Benthem, Johan Conditional probability meets update logic. (English summary) **2004i:03038**
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Bessant, Brigitte (*with* Grégoire, Eric; Marquis, Pierre; Saïs, Lakhdar) Iterated syntax-based revision in a nonmonotonic setting. **2004f:03018**
Bezhanishvili, Guram *see* **Aiello, Marco et al., 2004m:03072**
Bezzazi, Hassan Revision and update based on stratified forward chaining. **2004e:03025**
Bloch, Isabelle Modal logics based on mathematical morphology for qualitative spatial reasoning. (English summary) **2004c:03022**
Bochman, Alexander Contraction of epistemic states: a general theory. **2004e:03026**
— Collective argumentation and disjunctive logic programming. (English summary) **2004h:68016**
Bourne, Rachel A. Explaining default intuitions using maximum entropy. (English summary) **2004m:03104**
Brachman, Ronald J. *see* **Nardi, Daniele, 2004g:68166**
Brass, Stefan (*with* Dix, Jürgen; Przymusinski, Teodor C.) Super logic programs. (English summary) **2004m:68017**
(Brewka, Gerhard) *see* **Computational dialectics**

Burger, Isabella Cornelia (*with* Heidema, Johannes) Merging inference and conjecture by information. (English summary) **2004c:03085**
Calvanese, Diego (*with* De Giacomo, Giuseppe) Expressive description logics. (English summary) **2004g:68164**
— *see also* **Sattler, Ulrike et al., 2004g:68167**
Cantwell, John Sean Two notions of epistemic entrenchment. **2004e:03027**
— On the foundations of pragmatic arguments. **2004g:03029**
— Eligible contraction. (English summary) **2004d:03026**
Cao, ZiNing (*with* Shi, ChunYi) Probabilistic belief logic and its probabilistic Aumann semantics. (English summary) **2004h:03035**
Castelfranchi, Cristiano *see* **de Rosis, Fiorella et al., (2004b:03007)**
Chen, Luo *see* **Zhong, Zhi-Nong et al.**
Chiang, Wei-Ling *see* **Lee, Jonathan et al.**
Cholvy, Laurence (*with* Garion, Christophe) An attempt to adapt a logic of conditional preferences for reasoning with contrary-to-duties. (English summary) **2004i:03026**
Chopra, Samir (*with* Ghose, Aditya K.; Meyer, Thomas Andreas) Non-prioritized ranked belief change. (English summary) **2004h:03023**
Clausing, Thorsten Doxastic conditions for backward induction. (English summary) **2004i:91008**
Cohn, Anthony G. (*with* Varzi, Achille C.) Mereotopological connection. (English summary) **2004e:03021**
Covino, E. *see* **de Rosis, Fiorella et al., (2004b:03007)**
Cross, Charles B. Nonmonotonic inconsistency. (English summary) **2004m:03106**
Cutello, V. *see* **Bergadano, Francesco et al., 2004g:68140**
Damásio, Carlos Viegas (*with* Pereira, Luís Moniz) Hybrid probabilistic logic programs as residuated logic programs. (English summary) **2004c:68017**
De Giacomo, Giuseppe *see* **Calvanese, Diego, 2004g:68164**
Delgrande, James P. A minimal modelling for successful knowledge base revision. **2004f:03019**
(Demolombe, Robert) *see* **Special Issue: Deontic logic in computer science**
Denecker, Marc *see* **Arieli, Ofer, 2004g:03043**
De Nicola, Rocco (*with* Loreti, Michele) A modal logic for mobile agents. (English summary) **2004k:68106**
Dezert, Jean An introduction to the theory of plausible and paradoxical reasoning. (English summary) **2004m:68236**
Dimitri, Nicola Coordination in an email game without "almost common knowledge". (English summary) **2004a:91025**
Dix, Jürgen *see* **Brass, Stefan et al., 2004m:68017**
Donini, Francesco M. Complexity of reasoning. (English summary) **2004g:68057**
Doyle, Jon *see* **McGeachie, Michael**
Dubois, Didier *see* **Benferhat, Salem et al., 2004g:03028**
Dunin-Kęplicz, Barbara (*with* Verbrugge, Rineke) Evolution of collective commitment during teamwork. (English summary) **2004j:68161**
Eiter, Thomas (*with* Klotz, Volker; Tompits, Hans; Woltran, Stefan) Modal nonmonotonic logics revisited: efficient encodings for the basic reasoning tasks. (English summary) (*see* **2004k:68003**)
— (*with* Gottlob, Georg) Hypergraph transversal computation and related problems in logic and AI. (English summary) (*see* **2004j:68015**)
— (*with* Fink, Michael; Sabbatini, Giuliana; Tompits, Hans) Using methods of declarative logic programming for intelligent information agents. (English summary) **2004f:68010**
Engelfriet, Joeri (*with* Treur, Jan) Linear, branching time and joint closure semantics for temporal logic. (English summary) **2004d:68085**
— (*with* Treur, Jan) Multi-interpretation operators and approximate classification. (English summary) **2004a:68134**
Fagin, Ronald (*with* Halpern, Joseph Y.; Moses, Yoram; Vardi, Moshe Y.) Common knowledge revisited. (English summary) (*see* **2004m:03016**)
Falcone, R. *see* **de Rosis, Fiorella et al., (2004b:03007)**
Fermé, Eduardo L. (*with* Hansson, Sven Ove) Shielded contraction. **2004e:03029**
— Five faces of recovery. **2004e:03028**
— (*with* Mikalef, Juan; Taboada, Jorge) Credibility-limited functions for belief bases. (English summary) **2004c:03015**
— (*with* Saez, Karina; Sanz, Pablo) Multiple kernel contraction. (English summary) **2004d:03027**
Fink, Michael *see* **Eiter, Thomas et al., 2004f:68010**
Finnie, Gavin R. *see* **Sun, Zhaohao**
(Flesca, Sergio) *see* **Logics in artificial intelligence, 2004j:68015**
Freund, Michael[2] On a full meet base revision that satisfies the categorial matching principle. **2004e:03030**
Fuhrmann, André Some remarks on ultrafilter and normality logics. (English summary) **2004d:03086**
Gabbay, Dov M. Sampling labeled deductive systems. (*see* **2004e:03001**)
García, Alejandro J. (*with* Simari, Guillermo R.) Defeasible logic programming: an argumentative approach. (English summary) **2004k:68024**
Garion, Christophe *see* **Cholvy, Laurence, 2004i:03026**
Georgescu, George (*with* Popescu, Andrei) Concept lattices and similarity in non-commutative fuzzy logic. (English summary) **2004g:03041**
Ghose, Aditya K. (*with* Hadjinian, Pablo O.; Sattar, Abdul; You, Jia-Huai; Goebel, R. G.) Iterated belief change. (English summary) **2004k:03036**
— *see also* **Chopra, Samir et al., 2004h:03023**
Gilio, Angelo Probabilistic reasoning under coherence in System P. (English summary) **2004b:68148**
Giordano, Laura (*with* Gliozzi, Valentina; Olivetti, Nicola; Schwind, Camilla) Tableau calculi for preference-based conditional logics. (English summary) (*see* **2004k:03007**)
Gliozzi, Valentina *see* **Giordano, Laura et al., (2004k:03007)**
(Gmytrasiewicz, Piotr) *see* **Game theory and decision theory in agent-based systems, 2004h:68003**
Godo, Lluís (*with* Sandri, Sandra) Preface [Special issue: Possibilistic logic and related issues].
Goebel, R. G. *see* **Ghose, Aditya K. et al., 2004k:03036**
Gomolińska, Anna Derivability of rules from rule complexes. (English summary) **2004c:03035**
Goranko, Valentin *see* **Balbiani, Philippe, 2004b:03037**
Gordon, Andrew S. The representation of planning strategies. (English summary)
Gottlob, Georg *see* **Eiter, Thomas, (2004j:68015)**
(Greco, Sergio) *see* **Logics in artificial intelligence, 2004j:68015**
Grégoire, Eric *see* **Bessant, Brigitte et al., 2004f:03018**
Gunetti, D. *see* **Bergadano, Francesco et al., 2004g:68140**
Haarslev, Volker *see* **Möller, Ralf, (2004e:68001)**
Hadjinian, Pablo O. *see* **Ghose, Aditya K. et al., 2004k:03036**
Haesaert, Lieven *see* **Batens, Diderik, 2004h:03060**
Halpern, Joseph Y. (*with* Pucella, Riccardo) A logic for reasoning about upper probabilities. (English summary) **2004a:68135**
— Characterizing the common prior assumption. **2004b:03040**
— *see also* **Fagin, Ronald et al., (2004m:03016)**
Hansen, Jörg Sets, sentences, and some logics about imperatives. (English summary) **2004i:03032**
Hansson, Sven Ove *see* **Fermé, Eduardo L., 2004e:03029**
Hébrard, Jean-Jacques (*with* Zanuttini, Bruno) An efficient algorithm for Horn description. (English summary) **2004g:03022**
Heidema, Johannes *see* **Burger, Isabella Cornelia, 2004c:03085**
Herzig, Andreas Modal probability, belief, and actions. (English summary) **2004m:03086**
(Hilpinen, Risto) *see* **Special Issue: Deontic logic in computer science**
van der Hoek, Wiebe (*with* Verbrugge, Rineke) Epistemic logic: a survey. **2004f:03021**
— *see also* **Roorda, Jan-Willem et al., 2004f:03022**
Horrocks, Ian Implementation and optimization techniques. (English summary) (*see* **2004e:68001**)
Iancu, Ion Approximate reasoning with imprecise premise or observation. (English summary)
(Ianni, Giovambattista) *see* **Logics in artificial intelligence, 2004j:68015**
Inoue, Katsumi[2] *see* **Sakama, Chiaki, 2004i:68029**
Jennings, R. E. Natural frames and self-dual logics. (English summary) **2004i:03033**
Jing, Ning[2] *see* **Zhong, Zhi-Nong et al.**
Kahle, Reinhard Structured belief bases. **2004c:03016**
Kern-Isberner, Gabriele ★ Conditionals in nonmonotonic reasoning and belief revision. **2004m:68001**
— Revising and updating probabilistic beliefs. **2004e:03044**
Klotz, Volker *see* **Eiter, Thomas et al., (2004k:68003)**
Knight, Kevin M. Two information measures for inconsistent sets. (English summary) **2004d:03029**
Koubarakis, Manolis *see* **Skiadopoulos, Spiros, 2004j:68052**
Koutras, Costas D. (*with* Peppas, Pavlos) Weaker axioms, more ranges. (English summary) **2004g:03040**
Küsters, Ralf ★ Non-standard inferences in description logics. **2004k:68001**
— *see also* **Baader, Franz et al., 2004g:68162**
Kutz, Oliver (*with* Wolter, Frank; Sturm, Holger; Suzuki, Nobu-Yuki; Zakhar′yashchev, M. V.) Logics of metric spaces. (English summary) **2004m:03036**
Kyburg, Henry E., Jr. (*with* Teng, Choh Man) ★ Uncertain inference. **2004f:68155**
Lagrue, Sylvain *see* **Benferhat, Salem et al., 2004g:03028**
Lee, Jonathan (*with* Liu, K. F. R.; Wang, Y.-C.; Chiang, Wei-Ling) Possibilistic Petri nets as a basis for agent service description language. (English summary)
(Leone, Nicola) *see* **Logics in artificial intelligence, 2004j:68015**
Letz, Reinhold Lemma and model caching in decision procedures for quantified Boolean formulas. (English summary) (*see* **2004k:68003**)
Levi, Isaac Inductive expansion and nonmonotonic reasoning. **2004e:03054**
— Counterexamples to recovery and the filtering condition. (English summary) **2004j:03022**
— Contracting from epistemic hell in routine. (English summary)
Liang, Yi *see* **Wang, Guo Jun[1], 2004d:03070**
Liu, Faye F. Conditional proof in automated deduction. (English summary) (*see* **2004i:68002**)
Liu, K. F. R. *see* **Lee, Jonathan et al.**
Lomuscio, Alessio (*with* Sergot, Marek) Deontic interpreted systems. (English summary) **2004m:68228**
— *see also* **Penczek, Wojciech, 2004i:68140**
Loreti, Michele *see* **De Nicola, Rocco, 2004k:68106**
Lukasiewicz, Thomas Probabilistic default reasoning with conditional constraints. (English summary) **2004a:68137**
Lutz, Carsten (*with* Wolter, Frank; Zakhar′yashchev, M. V.) A tableau algorithm for reasoning about concepts and similarity. (English summary) (*see* **2004k:03007**)
Makinson, David Ways of doing logic: what was different about AGM 1985? (English summary) **2004b:03033**
— Bridges between classical and nonmonotonic logic. (English summary) **2004c:03036**
Malinowski, Jacek On generalizations of consequence operation. (English summary)
Marquis, Pierre *see* **Bessant, Brigitte et al., 2004f:03018**
McGeachie, Michael (*with* Doyle, Jon) Utility functions for ceteris paribus preferences. (English summary)
Meyer, John-Jules Ch. *see* **Roorda, Jan-Willem et al., 2004f:03022**
Meyer, Thomas Andreas *see* **Chopra, Samir et al., 2004h:03023**
Mikalef, Juan *see* **Fermé, Eduardo L. et al., 2004c:03015**
Molitor, Ralf *see* **Sattler, Ulrike et al., 2004g:68167**
Möller, Ralf (*with* Haarslev, Volker) Description logic systems. (English summary) (*see* **2004e:68001**)
Moses, Yoram *see* **Fagin, Ronald et al., (2004m:03016)**
Murzina, V. F. Modal logic based on linearly ordered f-spaces. (Russian. Russian summary) **2004g:03034**
Nardi, Daniele (*with* Brachman, Ronald J.) An introduction to description logics. (English summary) **2004g:68166**
Nguyen, Ngoc Thanh Using distance functions to solve representation choice problems. (English summary) **2004f:90182**

Nikolov, Nikolai G. Common-sense deduction with fuzzy and intuitionistic fuzzy logic. (English summary)
Nossum, Rolf A decidable multi-modal logic of context. (English summary) **2004g:03035**
Nutt, Werner *see* **Baader, Franz**, **2004g:68163**
Olivetti, Nicola *see* **Giordano, Laura et al.**, (**2004k:03007**)
Olsson, Erik J. Belief revision, rational choice and the unity of reason. (English summary) **2004c:03018**
— Avoiding epistemic hell: Levi on pragmatism and inconsistency. (English summary)
Papini, Odile Iterated revision operations stemming from the history of an agent's observations. **2004e:03031**
— *see also* **Benferhat, Salem et al.**, **2004g:03028**
Parent, Xavier Cumulativity, identity and time in deontic logic. (English summary) **2004i:03036**
(Parsons, Simon) *see* **Game theory and decision theory in agent-based systems**, **2004h:68003**
Penczek, Wojciech (*with* Lomuscio, Alessio) Verifying epistemic properties of multi-agent systems via bounded model checking. (English summary) **2004i:68140**
Peppas, Pavlos *see* **Koutras, Costas D.**, **2004g:03040**
Pereira, Luís Moniz *see* **Damásio, Carlos Viegas**, **2004c:68017**
Popescu, Andrei *see* **Georgescu, George**, **2004g:03041**
Prade, Henri *see* **Benferhat, Salem et al.**
Prakken, Henry Modelling defeasibility in law: logic or procedure? (English summary) **2004i:03056**
— *see also* **Computational dialectics**
Pratt-Hartmann, Ian Empiricism and rationalism in region-based theories of space. (English summary)
— A topological constraint language with component counting. (English summary) **2004d:03068**
Przymusinski, Teodor C. *see* **Brass, Stefan et al.**, **2004m:68017**
Pucella, Riccardo *see* **Halpern, Joseph Y.**, **2004a:68135**
Rabinowicz, Wlodek Remarks on the absentminded driver. (English summary) **2004d:91046**
Rasga, João (*with* Sernadas, Amílcar; Sernadas, Cristina S.; Viganò, Luca) Labelled deduction over algebras of truth-values. (English summary) **2004b:03044**
Reynolds, Mark Alexander The complexity of the temporal logic with "until" over general linear time. (English summary) **2004f:03026**
de Rijke, Maarten *see* **Areces, Carlos**, **2004i:03053**
Roorda, Jan-Willem (*with* van der Hoek, Wiebe; Meyer, John-Jules Ch.) Iterated belief change in multi-agent systems. (English summary) **2004f:03022**
de Rosis, Fiorella (*with* Covino, E.; Falcone, R.; Castelfranchi, Cristiano) Bayesian cognitive diagnosis in believable multiagent systems. (*see* **2004b:03007**)
Rott, Hans Coherence and conservatism in the dynamics of belief. II. Iterated belief change without dispositional coherence. (English summary) **2004d:03031**
— Basic entrenchment. (English summary) **2004b:03034**
— *see also* **Frontiers in belief revision**, **2004b:03007**
Rybakov, V. V. Barwise's information frames and modal logics. (Russian. Russian summary) **2004a:03029**
— Unification in common knowledge logics. (English summary) **2004f:03023**
— Refined common knowledge logics or logics of common information. (English summary) **2004b:03035**
Sabbatini, Giuliana *see* **Eiter, Thomas et al.**, **2004f:68010**
Saez, Karina *see* **Fermé, Eduardo L. et al.**, **2004d:03027**
Saïs, Lakhdar *see* **Bessant, Brigitte et al.**, **2004f:03018**
Sakama, Chiaki (*with* Inoue, Katsumi[2]) An abductive framework for computing knowledge base updates. (English summary) **2004i:68029**
Sandri, Sandra *see* **Godo, Lluís**
Sanz, Pablo *see* **Fermé, Eduardo L. et al.**, **2004d:03027**
Sattar, Abdul *see* **Ghose, Aditya K. et al.**, **2004k:03036**
Sattler, Ulrike (*with* Calvanese, Diego; Molitor, Ralf) Relationships with other formalisms. (English summary) **2004g:68167**
Schaub, Torsten (*with* Wang, Kewen) A semantic framework for preference handling in answer set programming. (English summary) **2004i:68030**
Schlechta, Karl *see* **Audibert, Laurent**, **2004e:03043**
Schwind, Camilla *see* **Giordano, Laura et al.**, (**2004k:03007**)
Segerberg, Krister The basic dynamic doxastic logic of AGM. **2004f:03034**
— A completeness proof in full DDL. **2004e:03032**
Sergot, Marek *see* **Lomuscio, Alessio**, **2004m:68228**
Sernadas, Amílcar *see* **Rasga, João et al.**, **2004b:03044**
Sernadas, Cristina S. *see* **Rasga, João et al.**, **2004b:03044**
Shafer, Glenn Comments on: "Constructing a logic of plausible inference: a guide to Cox's theorem" [Internat. J. Approx. Reason. **34** (2003), no. 1, 3–24] by K. S. Van Horn. (English summary)
Shi, ChunYi *see* **Cao, ZiNing**, **2004h:03035**
Sidorenko, E. A. Relational semantics and models of knowledge. (Russian. English summary) **2004e:03033**
Simari, Guillermo R. *see* **García, Alejandro J.**, **2004k:68024**
Sims, Aidan (*with* Sims, Brailey) Assessing the minimality of change in belief revision: capacities. **2004f:03024**
Sims, Brailey *see* **Sims, Aidan**, **2004f:03024**
Skiadopoulos, Spiros (*with* Koubarakis, Manolis) Composing cardinal direction relations. (English summary) **2004j:68052**
Stell, John G. Part and complement: fundamental concepts in spatial relations. (English summary) **2004m:68231**
— *see also* **Torrini, Paolo et al.**, **2004c:03028**
Sturm, Holger *see* **Kutz, Oliver et al.**, **2004m:03036**
Sun, Zhaohao (*with* Finnie, Gavin R.) ★ Intelligent techniques in e-commerce.
Suzuki, Nobu-Yuki *see* **Kutz, Oliver et al.**, **2004m:03036**
(Swatman, Paula M. C.) *see* **Sun, Zhaohao**
Szałas, Andrzej Second-order quantifier elimination in modal contexts. (English summary) (*see* **2004j:68015**)
Taboada, Jorge *see* **Fermé, Eduardo L. et al.**, **2004c:03015**
Tanaka, Yoshihito Some proof systems for predicate common knowledge logic. (English summary) **2004m:03064**
Teng, Choh Man *see* **Kyburg, Henry E., Jr.**, **2004f:68155**
Teniente, Ernest (*with* Urpí, Toni) On the abductive or deductive nature of database schema validation and update processing problems. (English summary)
Tompits, Hans *see* **Eiter, Thomas et al.**, **2004f:68010** *and* (**2004k:68003**)
Torrini, Paolo (*with* Stell, John G.; Bennett, Brandon) Mereotopology in 2nd-order and modal extensions of intuitionistic propositional logic. (English summary) **2004c:03028**
Treur, Jan *see* **Engelfriet, Joeri**, **2004a:68134** *and* **2004d:68085**
Urpí, Toni *see* **Teniente, Ernest**
Van Dyck, Maarten *see* **Weber, Erik**, **2004g:03050**
(Van Horn, Kevin S.) *see* **Shafer, Glenn**
Vardi, Moshe Y. *see* **Fagin, Ronald et al.**, (**2004m:03016**)
Varzi, Achille C. *see* **Cohn, Anthony G.**, **2004e:03021**
van de Vel, Marcel Interpreting first-order theories into a logic of records. (English summary) **2004h:03065**
Verbrugge, Rineke *see* **van der Hoek, Wiebe**, **2004f:03021** *and* **Dunin-Kęplicz, Barbara**, **2004j:68161**
Verhoeven, Liza All premises are equal, but some are more equal than others. (English summary) **2004g:03049**
— Changing one's position in a discussion—some adaptive approaches. (English summary) **2004m:03112**
Viganò, Luca *see* **Rasga, João et al.**, **2004b:03044**
(Vreeswijk, Gerard) *see* **Computational dialectics**
Wang, Guo Jun[1] (*with* Liang, Yi) Integrated semantics and logic metric spaces. (English summary) **2004d:03070**
Wang, Kewen *see* **Schaub, Torsten**, **2004i:68030**
Wang, Y.-C. *see* **Lee, Jonathan et al.**
Wassermann, Renata On structured belief bases. **2004e:03034**
— Generalized change and the meaning of rationality postulates. (English summary) **2004d:03032**
Weber, Erik (*with* Van Dyck, Maarten) Adaptive logic and covering law explanations. (English summary) **2004g:03050**
(Williams, Mary-Anne) *see* **Frontiers in belief revision**, **2004b:03007**
Wolter, Frank *see* **Baader, Franz et al.**, **2004g:68162**; **Kutz, Oliver et al.**, **2004m:03036** *and* **Lutz, Carsten et al.**, (**2004k:03007**)
Woltran, Stefan *see* **Eiter, Thomas et al.**, (**2004k:68003**)
(Wooldridge, Michael) *see* **Game theory and decision theory in agent-based systems**, **2004h:68003**
Wu, Qiu-Yun *see* **Zhong, Zhi-Nong et al.**
Xiao, Xi'an *see* **Zhu, Zhao-Hui et al.**, **2004k:03059**
You, Jia-Huai *see* **Ghose, Aditya K. et al.**, **2004k:03036**
Zakhar'yashchev, M. V. *see* **Kutz, Oliver et al.**, **2004m:03036** *and* **Lutz, Carsten et al.**, (**2004k:03007**)
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68T30 Knowledge representation

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Albert, Dietrich *see* **Brandt, Silke et al.**, **2004d:68149**
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De Giacomo, Giuseppe *see* **Calvanese, Diego**, **2004g:68164**
Díez Vegas, F. J. *see* **Druzdzel, Marek J.**, **2004m:68226**
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Druzdzel, Marek J. (*with* Díez Vegas, F. J.) Combining knowledge from different sources in causal probabilistic models. (English summary) **2004m:68226**
Ďuráková, Daniela *see* **Snášel, Václav et al.**, (**2004k:08001**)
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Friedrich, Gerhard *see* **Felfernig, Alexander et al.**, **2004j:68168**
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Grabisch, Michel Temporal scenario modelling and recognition based on possibilistic logic. (English summary) **2004i:68210**
Grosskreutz, Henrik (*with* Lakemeyer, Gerhard) Probabilistic complex actions in GOLOG. (English summary)
Guidi, Ferruccio *see* **Asperti, Andrea et al.**
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Hockemeyer, Cord *see* **Brandt, Silke et al.**, **2004d:68149**
Horng, Yih-Jen *see* **Chen, Shyi-Ming et al.**
Huete, Juan F. *see* **de Campos Ibáñez, Luis Miguel et al.**
Jannach, Dietmar *see* **Felfernig, Alexander et al.**, **2004j:68168**
Järvinen, Jouni On the structure of rough approximations. (English summary) **2004g:68165**
Jia, Bao Guo *see* **Zhang, Qian Sheng et al.**, **2004f:68153**
Jing, Ning[2] *see* **Zhong, Zhi-Nong et al.**
Krajči, Stanislav *see* **Snášel, Václav et al.**, (**2004k:08001**)
Kuipers, Benjamin *see* **Remolina, Emilio**, **2004k:68155**
Küsters, Ralf *see* **Baader, Franz et al.**, **2004g:68162**
Kwuida, L. *see* **Ganter, B.**, (**2004k:08001**)
Lakemeyer, Gerhard *see* **Grosskreutz, Henrik**
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Liu, Da You[2] *see* **Dong, Xu Chu et al.**
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Lomuscio, Alessio (*with* Sergot, Marek) Deontic interpreted systems. (English summary) **2004m:68228**
Małuszyński, Jan *see* **Vitória, Aida et al.**, **2004m:68232**
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Moshkov, Mikhail On decision trees for (1, 2)-Bayesian networks. (English summary) **2004h:68134**
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Nardi, Daniele (*with* Brachman, Ronald J.) An introduction to description logics. (English summary) **2004g:68166**
Nutt, Werner *see* **Baader, Franz**, **2004g:68163**
Osipov, G. S. *see* **Vinogradov, A. N. et al.**
Ouyang, Dan Tong *see* **Dong, Xu Chu et al.**
Pacholczyk, Daniel *see* **El-Sayed, Mazen**, (**2004j:68015**)
Padovani, Luca *see* **Asperti, Andrea et al.**
Patel-Schneider, Peter F. *see* **McGuinness, Deborah L.**, (**2004e:68001**)
Pearl, Judea Statistics and causal inference: a review. (English summary) **2004m:68229**
Polleres, Axel *see* **Dix, Jürgen et al.**, **2004m:68225**
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Stumptner, Markus *see* **Felfernig, Alexander et al.**, **2004j:68168**
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Albert, Dietrich *see* **Brandt, Silke et al.**, **2004e:91110**
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Castro-Schez, Jose Jesus *see* **Moreno-Garcia, Juan et al.**
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Donini, Francesco M. Complexity of reasoning. (English summary) **2004g:68057**
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Fagiuoli, Enrico *see* **Zaffalon, Marco**
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Fernández-Luna, Juan M. *see* **de Campos Ibáñez, Luis Miguel et al.**
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Fox, John Paul Probability, logic and the cognitive foundations of rational belief. (English summary) **2004m:03083**
Franconi, Enrico *see* **Artale, Alessandro et al.**, (**2004j:68015**)
Friedman, Nir *see* **Getoor, Lise et al.**, **2004d:68137**
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Géraud, Thierry *see* **Bloch, Isabelle et al.**
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Givan, Robert *see* **Fern, Alan et al.**, **2004d:68136**
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Haft, M. (*with* Hofmann, Reimar; Tresp, V.) Generative binary codes. (English summary)
Hájek, Petr[1] *see* **Godo, Lluís et al.**, **2004m:03093**
Hazarika, S. M. *see* **Cohn, Anthony G.**
(Hazewinkel, Michiel) *see* **Mathematical knowledge management**
Hegland, Markus Data mining techniques. (English summary) **2004h:68113**
Herrera, Francisco *see* **Cordón, O. et al.**
Hockemeyer, Cord *see* **Brandt, Silke et al.**, **2004e:91110**
van der Hoek, Wiebe *see* **van Linder, Bernd et al.**
Hofmann, Reimar *see* **Haft, M. et al.**
Huang, Xi Yue *see* **Fan, Xing Hua et al.**
Huete, Juan F. *see* **de Campos Ibáñez, Luis Miguel et al.**
Inoue, Katsumi[2] *see* **Sakama, Chiaki**, **2004i:68029**
Ishibuchi, Hisao (*with* Yamamoto, Takashi) Effect of fuzzy discretization in fuzzy rule-based systems for classification problems with continuous attributes. (English summary)
Jaakkola, Tommi S. *see* **Wainwright, Martin J. et al.**, **2004d:68156**
Kaci, Souhila *see* **Benferhat, Salem**, **2004b:68136** *and* **2004i:68213**
Kern-Isberner, Gabriele *see* **Falappa, Marcelo A. et al.**, **2004f:68148**
Kerre, Etienne E. *see* **Radzikowska, Anna Maria**, **2004e:68105**
Kitakoshi, Daisuke (*with* Shioya, Hiroyuki; Kurihara, Masahito[1]) An improvement of reinforcement learning agent's policy by using a Bayesian network. (Japanese. English and Japanese summaries)
Koller, Daphne *see* **Getoor, Lise et al.**, **2004d:68137**
Koster, Jan T. A. Marginalizing and conditioning in graphical models. (English summary) **2004d:62197**
Koubarakis, Manolis *see* **Skiadopoulos, Spiros**, **2004j:68052**
Kramosil, Ivan Belief functions generated by fuzzy and randomized compatibility relations. (English summary) **2004m:68238**
Kruse, Rudolf *see* **Borgelt, Christian**, **2004i:68183**
Kryszkiewicz, Marzena Closed set based discovery of maximal covering rules. (English summary)
Kurihara, Masahito[1] *see* **Kitakoshi, Daisuke et al.**
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Lamure, M. *see* **Bonnevay, S. et al.**, (**2004d:00019**)
Largeron-Leteno, C. *see* **Bonnevay, S. et al.**, (**2004d:00019**)
Larrañaga, P. *see* **Peña, José M. et al.**
Leclère, M. *see* **Fürst, F. et al.**
Lehmann, Norbert *see* **Haenni, Rolf**, **2004b:68149**
Li, San Jiang (*with* Ying, Ming-Sheng) Region connection calculus: its models and composition table. (English summary) **2004c:68127**
Liang, Ji Ye (*with* Shi, Zhong Zhi) The information entropy, rough entropy and knowledge granulation in rough set theory. (English summary)
Liang, Yi *see* **Wu, Wei Zhi et al.**, **2004e:68107**
Linares, Luis Jimenez *see* **Moreno-Garcia, Juan et al.**
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Suzuki, Nobu-Yuki *see* **Kutz, Oliver et al., 2004e:03038** *and* **2004m:03036**
Szałas, Andrzej *see* **Doherty, Patrick et al., 2004k:68172** *and* **Workshop: Knowledge Representation and Approximate Reasoning**
Taskar, Benjamin *see* **Getoor, Lise et al., 2004d:68137**
Terracina, Giorgio *see* **Palopoli, Luigi et al., 2004i:68206**
Thielscher, Michael *see* **Fichtner, Matthias et al.**
Tresp, V. *see* **Haft, M. et al.**
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Ying, Ming-Sheng *see* **Li, San Jiang, 2004c:68127**
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Barret, Claude *see* **Oussalah, Mourad et al., 2004i:68215**
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Bugarín, A. *see* **Díaz-Hermida, F. et al., 2004c:68130** *and* **2004i:68214**
Calvo, Tomasa *see* **Lázaro, Jesus et al., 2004m:68239** *and* **Sicilia, Miguel-Ángel et al.**
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Chen, Lianghua *see* **Liu, Xinwang, 2004k:68160**
de Cooman, Gert *see* **Miranda, Enrique, 2004a:68138**
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Gasimov, Vagif *see* **Abbasov, Ali et al., 2004m:68234**
Gerla, Giangiacomo *see* **Biacino, Loredana, 2004g:68169**
Gilio, Angelo Probabilistic reasoning under coherence in System P. (English summary) **2004b:68148**
Gillett, Peter R. *see* **Shafer, Glenn et al., 2004m:68241**
Godo, Lluís *see* **Rodríguez, R. O. et al., 2004h:68137**
Gou, Xi Mei *see* **Yang, Bei et al.**
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Han, Jianchao *see* **Hu, Xiaohua et al., 2004m:68237**
Herrera, Francisco *see* **Cordón, O. et al.**
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Junges, M. *see* **Ekel, P. Ya. et al., (2004i:68002)**
Kaci, Souhila *see* **Benferhat, Salem, 2004h:68136** *and* **2004i:68213**
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Lan, Qian *see* **Li, Jun[6] et al.**
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Lee, E. Stanley *see* **Li, Hong Xing, 2004g:68170**
Lehmann, Norbert *see* **Haenni, Rolf, 2004b:68149**
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Lin, Tsau Young *see* **Hu, Xiaohua et al., 2004m:68237**
Liu, Da You[2] *see* **Liu, Ya Bo et al.**
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Maji, P. K. (*with* Biswas, Ranjit; Roy, Akhil Ranjan) Soft set theory. (English summary) **2004b:68152**
Mamedova, Masuma *see* **Abbasov, Ali et al., 2004m:68234**
Mariné, Claudette *see* **Raufaste, Eric et al.**
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Mesiar, Radko *see* **Saminger, Susanne et al., 2004b:68153**

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Mordelová, J. *see* **Kolesárová, A. et al.**, **2004b:68151**
Muel, E. *see* **Kolesárová, A. et al.**, **2004b:68151**
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Pedrycz, Witold *see* **Bargiela, Andrzej**, **2004a:68133**
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Prade, Henri *see* **Ben Amor, N. et al.**, **2004c:68129** *and* **Dubois, Didier**, **(2004a:62013)**
Pratt-Hartmann, Ian Empiricism and rationalism in region-based theories of space. (English summary)
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Reusch, Bernd *see* **Lehmke, Stephan et al.**, **(2004a:00018)**
Rödder, Wilhelm On the measurability of knowledge acquisition and query processing. (English summary) **2004m:68240**
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de Rosis, Fiorella (*with* Carofiglio, Valeria; Grassano, Giuseppe; Castelfranchi, Cristiano) Can computers deliberately deceive? A simulation tool and its application to Turing's imitation game. (English summary)
Roventa, Eugene (*with* Spircu, Tiberiu) Averaging procedures in defuzzification processes. (English summary) **2004d:68153**
Roy, Akhil Ranjan *see* **Maji, P. K. et al.**, **2004b:68152**
Ruan, Da *see* **Xu, Yang**[1] **et al.**, **2004j:68170**
Rückschlossová, T. *see* **Lázaro, Jesus et al.**, **2004m:68239**
Saminger, Susanne (*with* Mesiar, Radko; Bodenhofer, Ulrich) Domination of aggregation operators and preservation of transitivity. (English summary) **2004b:68153**
Santos, Eugene S. *see* **Santos, Eugene, Jr. et al.**, **2004d:68154**
Santos, Eugene, Jr. (*with* Santos, Eugene S.; Shimony, Solomon Eyal) Implicitly preserving semantics during incremental knowledge base acquisition under uncertainty. (English summary) **2004d:68154**
Schaub, Torsten *see* **Delgrande, James P.**, **2004f:68154**
Scherl, Richard B. *see* **Shafer, Glenn et al.**, **2004m:68241**
Schinzinger, Roland *see* **Ekel, P. Ya. et al.**, **(2004i:68002)**
Schoop, Dominik J. Points in point-free mereotopology. (English summary)
Schwartz, Daniel G. Agent-oriented epistemic reasoning: subjective conditions of knowledge and belief. (English summary) **2004i:68216**
Shafer, Glenn (*with* Gillett, Peter R.; Scherl, Richard B.) A new understanding of subjective probability and its generalization to lower and upper prevision. (English summary) **2004m:68241**
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Shrabonti, Ghosh (*with* Alam, S. S.) Approximate decision logic and reduction of decision rules. (English summary) **2004d:68155**
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da Silva Neves, Rui *see* **Raufaste, Eric et al.**
Skowron, Andrzej (*with* Stepaniuk, Jarosław) Information granule decomposition. (English summary) **2004i:68217**
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Spircu, Tiberiu *see* **Roventa, Eugene**, **2004d:68153**
Stepaniuk, Jarosław *see* **Skowron, Andrzej et al.**, **2004i:68217**; **2004i:68218** *and* **Peters, James F. et al.**
Su, Jian (*with* Gao, Ji) Rough decision support method. (Chinese. English and Chinese summaries)
Sun, Mao Song *see* **Fan, Xing Hua et al.**
Szczuka, Marcin *see* **Bazan, Jan et al.**
Temme, Karl-Heinz *see* **Lehmke, Stephan et al.**, **(2004a:00018)**
Teng, Choh Man *see* **Kyburg, Henry E., Jr.**, **2004f:68155**
Thiele, Helmut *see* **Lehmke, Stephan et al.**, **(2004a:00018)**
Treur, Jan *see* **Engelfriet, Joeri**, **2004a:68134**
Tzeng, Gwo-Hshiung *see* **Opricovic, Serafim**
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— Imprecise second-order hierarchical uncertainty model. (English summary) **2004f:68157**
Vantaggi, Barbara Conditional independence structures and graphical models. (English summary) **2004k:68162**
Vaucheret, C. *see* **Guadarrama, S. et al.**
Wainwright, Martin J. (*with* Jaakkola, Tommi S.; Willsky, Alan S.) Tree-based reparameterization framework for analysis of sum-product and related algorithms. (English summary) **2004d:68156**
Wang, Xu Zhu *see* **Xue, Ye**
Weiler, Thomas (*with* Bodenhofer, Ulrich) Approximation of belief functions by minimizing Euclidean distances. (English summary) **2004e:68106**
Willsky, Alan S. *see* **Wainwright, Martin J. et al.**, **2004d:68156**
Wu, Cheng[3] *see* **Chen, De Gang et al.**
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Zadeh, Lotfi A. Toward a perception-based theory of probabilistic reasoning with imprecise probabilities. (English summary) **2004f:68158**
Zhang, Mei (*with* Wu, Wei Zhi) Knowledge reductions in information systems with fuzzy decisions. (English and Chinese summaries)
Zhang, Qin *see* **Fan, Xing Hua et al.**
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Zheng, Fei *see* **Liu, Qing**[3] **et al.**, **2004c:68131**
Zwir, I. *see* **Cordón, O. et al.**

Items with secondary classifications in 68T37

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Aidarkhanov, M. B. (*with* La, L. L.) Some properties of fuzzy classifications. (Russian. Russian summary) **2004b:68138**
Amaral, W. C. *see* **Campello, R. J. G. B.**
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Biazzo, Veronica (*with* Gilio, Angelo; Lukasiewicz, Thomas; Sanfilippo, Giuseppe) Probabilistic logic under coherence, model-theoretic probabilistic logic, and default reasoning in system P. (English summary) **2004i:03039**
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— *see also* **Acid, Silvia**, **2004f:68151**
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Castellano, Giovanna (*with* Fanelli, Anna Maria; Mencar, Corrado) Generation of interpretable fuzzy granules by a double-clustering technique. (English summary)
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Chang, Chi-Chang *see* **Huang, Yeu-Shiang**
Chemello, Gaetano *see* **Sossai, Claudio**, **2004f:93080**
Chen, Mian Yun *see* **Li, Xiao Xia**
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Ciucci, Davide *see* **Cattaneo, Gianpiero**, **2004h:08007**
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Damásio, Carlos Viegas *see* **Vitória, Aida et al.**, **2004m:68232**
Davis, Ernest Continuous shape transformation and metrics on regions. (English summary)
Dean, Thomas *see* **Givan, Robert et al.**, **2004f:68142**; **Kim, Kee-Eung**, **2004f:68143** *and* **Planning with uncertainty and incomplete information**
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Demirci, Mustafa Indistinguishability operators in measurement theory. I. Conversions of indistinguishability operators with respect to scales. (English summary) **2004i:03078**
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Deng, Hepu *see* **Yeh, Chung-Hsing**
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— *see also* **Cornelis, Chris et al.**, **2004j:03063**
Díez Vegas, F. J. *see* **Druzdzel, Marek J.**, **2004m:68226**
Doherty, Patrick (*with* Grabowski, Michał; Łukaszewicz, Witold; Szałas, Andrzej) Towards a framework for approximate ontologies. (English summary) **2004k:68172**
Doldi, Viviana *see* **Bertoluzza, Carlo et al.**, **2004m:03188**
Drewniak, Józef (*with* Kula, Krzysztof) Generalized compositions of fuzzy relations. (English summary) **2004b:03082**
Druzdzel, Marek J. (*with* Díez Vegas, F. J.) Combining knowledge from different sources in causal probabilistic models. (English summary) **2004m:68226**
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Esteva, Francesc *see* **Godo, Lluís et al.**, **2004m:03093**
Fanelli, Anna Maria *see* **Castellano, Giovanna et al.**
Fargier, Hélène *see* **Dubois, Didier et al.**, **2004h:91037**
Fedrizzi, Mario *see* **Carlsson, Christer et al.**, **2004j:90003**
Fernández-Luna, Juan M. *see* **de Campos Ibáñez, Luis Miguel et al.**
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Finnie, Gavin R. *see* **Sun, Zhaohao**
Fox, John Paul Probability, logic and the cognitive foundations of rational belief. (English summary) **2004m:03083**
Fullér, Róbert *see* **Carlsson, Christer et al.**, **2004j:90003**
Gabbay, Dov M. (*with* Pigozzi, Gabriella; Woods, John Hayden) Controlled revision—an algorithmic approach for belief revision. (English summary) **2004f:03020**
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(Gabrys, Bogdan) *see* **Integration of methods and hybrid systems**
Galichet, Sylvie (*with* Dubois, Didier; Prade, Henri) Imprecise specification of ill-known functions using gradual rules. (English summary)
Gan, Qiang *see* **Harris, Christopher J. et al.**, **2004i:93001**
Geisler, Benjamin *see* **Haddawy, Peter et al.**
Georgescu, George (*with* Popescu, Andrei) Concept lattices and similarity in non-commutative fuzzy logic. (English summary) **2004g:03041**
(Gil, María Ángeles) *see* **Soft methods in probability, statistics and data analysis**, **2004a:62013**
Gilio, Angelo *see* **Biazzo, Veronica et al.**, **2004i:03039**
Giunchiglia, Enrico *see* **Castellini, Claudio et al.**, **2004e:68093**
Givan, Robert (*with* Dean, Thomas; Greig, Matthew) Equivalence notions and model minimization in Markov decision processes. (English summary) **2004f:68142**
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Gomolińska, Anna Derivability of rules from rule complexes. (English summary) **2004c:03035**
González Muñoz, Antonio *see* **Herrera-Viedma, Enrique et al.**
Goodrich, Michael A. *see* **Stirling, Wynn C. et al.**, (**2004h:68003**)
Grabowski, Michał *see* **Doherty, Patrick et al.**, **2004k:68172**
Greig, Matthew *see* **Givan, Robert et al.**, **2004f:68142**
Grosskreutz, Henrik (*with* Lakemeyer, Gerhard) Probabilistic complex actions in GOLOG. (English summary)
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Ha, Vu *see* **Haddawy, Peter et al.**
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Hájek, Petr[1] *see* **Godo, Lluís et al.**, **2004m:03093**
Harris, Christopher J. (*with* Hong, Xia; Gan, Qiang) ★ Adaptive modelling, estimation and fusion from data. **2004i:93001**
Hatamzadeh, L. *see* **Eslami, Esfandiar**, (**2004f:00019**)
Hawthorne, James Three models of sequential belief updating on uncertain evidence. (English summary) **2004m:03085**
Hazarika, S. M. *see* **Cohn, Anthony G.**
Herrera, Francisco *see* **Chiclana, Francisco et al.**
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Hirota, Kaoru *see* **Bargiela, Andrzej et al.**
Ho, T. B. *see* **Huynh Van Nam et al.**
Hong, Xia *see* **Harris, Christopher J. et al.**, **2004i:93001**
Horng, Yih-Jen *see* **Chen, Shyi-Ming et al.**
Hou, Lishan *see* **Miao, Duoqian**
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Jia, Bao Guo *see* **Zhang, Qian Sheng et al.**, **2004f:68153**
Keller, G. Randy *see* **Torres, Roberto et al.**
(Kern-Isberner, Gabriele) *see* **Issues in uncertainty in AI**
Kerre, Etienne E. *see* **Deschrijver, Glad**, **2004f:03094**; **Cornelis, Chris et al.**, **2004j:03063** *and* **De Cock, Martine**
Kim, Kee-Eung (*with* Dean, Thomas) Solving factored MDPs using non-homogeneous partitions. (English summary) **2004f:68143**
King, Irwin *see* **Yue, H. Y. et al.**, (**2004i:68002**)
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Knight, Kevin M. Two information measures for inconsistent sets. (English summary) **2004d:03029**
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(Koenig, Sven) *see* **Planning with uncertainty and incomplete information**
Kranakis, Evangelos *see* **Kirousis, Lefteris M. et al.**, **2004g:68030**
Krätschmer, Volker Coherent lower previsions and Choquet integrals. (English summary) **2004f:28004**
Kreinovich, Vladik *see* **Yager, Ronald R.**, **2004k:68157** *and* **Torres, Roberto et al.**
Krizanc, Danny *see* **Kirousis, Lefteris M. et al.**, **2004g:68030**
Kula, Krzysztof *see* **Drewniak, Józef**, **2004b:03082**
Kutalik, Zoltan *see* **Nuñez Garcia, Javier et al.**, **2004m:60030**
La, L. L. *see* **Aidarkhanov, M. B.**, **2004b:68138**
Lagrue, Sylvain *see* **Benferhat, Salem et al.**
Lakemeyer, Gerhard *see* **Grosskreutz, Henrik**
Lan, Qian *see* **Li, Jun[6] et al.**
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Lawry, Jonathan *see* **Recasens, J.**, **2004h:03113**
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Liang, Yi *see* **Wang, Guo Jun[1], 2004d:03070**
Lin, Tao[3] *see* **Wong, S. K. M., 2004h:68135**
Littman, Michael L. *see* **Majercik, Stephen M., 2004e:68095**
Liu, Baoding Inequalities and convergence concepts of fuzzy and rough variables. (English summary) **2004g:03086**
— *see also* **Liu, Yian-Kui, 2004d:90142**
Liu, Qi *see* **Deng, Yong et al.**
Liu, San Yang *see* **Deng, Fang An**
Liu, Yian-Kui (*with* Liu, Baoding) Expected value operator of random fuzzy variable and random fuzzy expected value models. (English summary) **2004d:90142**
Longpré, Luc *see* **Torres, Roberto et al.**
Lopez, A. G. *see* **Herrera-Viedma, Enrique et al.**
Lukasiewicz, Thomas *see* **Biazzo, Veronica et al., 2004i:03039** *and* **Issues in uncertainty in AI**
Łukaszewicz, Witold *see* **Doherty, Patrick et al., 2004k:68172**
Luque Rodríguez, María *see* **Herrera-Viedma, Enrique et al.**
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Małuszyński, Jan *see* **Vitória, Aida et al., 2004m:68232**
Martín-Bautista, María J. *see* **Intelligent information systems** *and* **Blanco, Ignacio J. et al.**
(Mastorakis, Nikos E.) *see* **Advances in fuzzy systems and evolutionary computation, 2004i:68002**
Mencar, Corrado *see* **Castellano, Giovanna et al.**
Mesiar, Radko *see* **Calvo, Tomasa**
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Montero de Juan, Francisco Javier *see* **Gómez González, Daniel**
Moshkov, Mikhail On decision trees for (1, 2)-Bayesian networks. (English summary) **2004h:68134**
Mrówka, Edyta *see* **Grzegorzewski, Przemysław, 2004e:03090**
Mukaidono, Masao *see* **Intan, Rolly, 2004d:03117**
Murakami, Shuta *see* **Fernández Salido, J. M., 2004j:03064**
Nakamori, Yoshiteru *see* **Huynh Van Nam et al.**
Narens, Louis A theory of belief. (English summary) **2004d:03030**
Naval, Gloria *see* **Bertoluzza, Carlo et al., 2004m:03188**
Nayak, Abhaya C. (*with* Pagnucco, Maurice; Peppas, Pavlos) Dynamic belief revision operators. (English summary) **2004m:68222**
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68T45 Machine vision and scene understanding

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Wise, Morgan *see* **Kou, Gang et al., 2004j:90101**
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Yoshioka, Nobukazu *see* **Tahara, Yasuyuki et al.**
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68Uxx Computing methodologies and applications

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Attali, Dominique *see* **Hétroy, Franck, 2004b:68165**

Aurenhammer, Franz *see* **Aichholzer, Oswin et al., 2004g:68175** *and* **2004k:68165**

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Bhattacharya, Bhargab B. *see* **Nandy, Subhas C., 2004h:68147** *and* **Bishnu, Arijit et al., (2004j:68002)**

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Chung, Kelvin *see* **Li, Xue-Qing et al.**

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Datta, Amitava *see* **Lorenzetto, Gian Paolo, (2004j:00014)**

David, Haggai *see* **de Berg, Mark et al., 2004h:68141**

Debled-Rennesson, Isabelle (*with* Rémy, Jean-Luc; Rouyer-Degli, Jocelyne) Detection of the discrete convexity of polyominoes. (English summary) **2004d:68163**

De Floriani, Leila (*with* Mesmoudi, Mohammed Mostefa; Morando, Franco; Puppo, Enrico) Non-manifold decomposition in arbitrary dimensions. (English summary) **2004c:68143**

De Raedt, Koen *see* **Bekker, Henk, (2004j:00014)**

Dercole, Fabio Remarks on the computation of the horizon of a digital terrain. (English summary) **2004g:68179**

Devarajan, Harish *see* **Basch, Julien et al., 2004e:68110**

Devillers, Olivier (*with* Teillaud, Monique) Perturbations and vertex removal in a 3D Delaunay triangulation. (English summary) (*see* **2004a:68002**)

— (*with* Preparata, Franco P.) Culling a set of points for roundness or cylindricity evaluations. (English summary) **2004d:68164**

— (*with* Dujmović, Vida; Everett, Hazel; Goaoc, Xavier; Lazard, Sylvain; Na, Hyeon-Suk; Petitjean, Sylvain) The expected number of 3D visibility events is linear. (English summary) **2004m:68256**

Dey, Tamal K. (*with* Wenger, Rephael) Fast reconstruction of curves with sharp corners. (English summary) **2004d:68165**
— (*with* Giesen, Joachim; Goswami, Samrat; Zhao, Wulue) Shape dimension and approximation from samples. (English summary) **2004a:68143**
Díaz-Báñez, J. M. (*with* Hurtado, Ferran; Meijer, Henk; Rappaport, David; Sellarès, J. Antoni) The largest empty annulus problem. (English summary) **2004h:68142**
Di Giacomo, Emilio (*with* Liotta, Giuseppe; Patrignani, Maurizio) A note on 3D orthogonal drawings with direction constrained edges. (English summary)
Doran, Chris (*with* Lasenby, Anthony; Lasenby, Joan) Conformal geometry, Euclidean space and geometric algebra. (English summary) (*see* **2004m:65003**)
Dujmović, Vida *see* **Devillers, Olivier et al., 2004m:68256**
Dumitrescu, Adrian (*with* Guha, Sumanta) Extreme distances in multicolored point sets. (English summary) (*see* **2004j:00014**)
— An approximation algorithm for cutting out convex polygons. (English summary) (*see* **2004a:68002**)
Duncan, Rob (*with* Qian, Jianbo; Vigneron, Antoine; Zhu, Binhai) Polynomial time algorithms for three-label point labeling. (English summary) **2004b:68163**
Eades, Peter *see* **Lin, Xuemin, 2004d:68166**
Edalat, Abbas (*with* Lieutier, André) Foundation of a computable solid modelling. (English summary) **2004e:68112**
Eidenbenz, Stephan J. Optimum inapproximability results for finding minimum hidden guard sets in polygons and terrains. (English summary)
— (*with* Widmayer, Peter) An approximation algorithm for minimum convex cover with logarithmic performance guarantee. (English summary) **2004h:68143**
Emiris, Ioannis Z. *see* **Karavelas, Menelaos I., (2004a:68002)**
Eppstein, David *see* **Bern, Marshall, (2004a:68002)**
Ergün, Funda *see* **Czumaj, Artur et al., (2004a:68002)**
Erickson, Jeff Nice point sets can have nasty Delaunay triangulations. (English summary) **2004f:68164**
— (*with* Har-Peled, Sariel) Optimally cutting a surface into a disk. (English summary) **2004m:68257**
— *see also* **Agarwal, Pankaj K. et al., 2004c:68137** *and* **Soss, Michael et al., 2004j:68183**
Everett, Hazel *see* **Bose, Prosenjit et al., 2004k:68167** *and* **Devillers, Olivier et al., 2004m:68256**
Ezra, Eti (*with* Halperin, Dan; Sharir, Micha) Speeding up the incremental construction of the union of geometric objects in practice. (English summary) **2004m:68258**
Fan, Guangbin (*with* Zhang, Jingyuan) Optimal cellular network deployment reusing existing base stations. (English summary) **2004c:68144**
Fan, Zhi Gang (*with* Wu, Yu Gong; Zhao, Xuan He) Design and construction of the software package for Laguerre-Voronoi diagrams. (Chinese. English and Chinese summaries)
Fedkiw, Ronald P. Simulating natural phenomena. (English summary)
Fekete, Sándor P. *see* **Arkin, Esther M. et al., 2004d:68161**
Fortnow, Lance *see* **Czumaj, Artur et al., (2004a:68002)**
Fourey, Sébastien (*with* Malgouyres, Rémy) A concise characterization of 3D simple points. (English summary) **2004b:68164**
Fragoudakis, Christodoulos *see* **Markou, Euripides et al., (2004j:68002)**
Fried, Roland *see* **Bernholt, Thorsten, 2004g:68177**
Fu, Ho-Yam Addy *see* **Arya, Sunil, 2004h:68140**
Gabriely, Yoav (*with* Rimon, Elon) Competitive on-line coverage of grid environments by a mobile robot. (English summary) **2004a:68144**
Gajer, Pawel (*with* Kobourov, Stephen G.) GRIP: Graph drawing with intelligent placement. (English summary) **2004f:68165**
Gao, Jie[1] (*with* Guibas, Leonidas J.; Hershberger, John; Zhang, Li[6]; Zhu, An) Discrete mobile centers. (English summary) **2004f:68166**
Gao, Wen[1] *see* **Jin, Hui[4]**
Gardner, Richard J. (*with* Milanfar, Peyman) Reconstruction of convex bodies from brightness functions. (English summary) **2004a:68145**
Geer, Panama (*with* McLaughlin, Harry W.; Unsworth, Keith) Cellular lines: an introduction. (English summary) **2004h:68144**
Giesen, Joachim (*with* John, Matthias) Duality in disk induced flows. (English summary) (*see* **2004j:00014**)
— (*with* John, Matthias) A new diagram from disks in the plane. (English summary) (*see* **2004j:68020**)
— (*with* John, Matthias) The flow complex: a data structure for geometric modeling. (English summary) (*see* **2004a:68002**)
— *see also* **Dey, Tamal K. et al., 2004a:68143**
Goaoc, Xavier *see* **Devillers, Olivier et al., 2004m:68256**
Gold, Christopher *see* **Dakowicz, Maciej**
Golin, Mordecai J. *see* **Ahn, Hee-Kap et al., 2004j:68173**
Goodrich, Michael T. *see* **Buchsbaum, Adam L., 2004m:68253**
Goswami, Partha P. (*with* Das, Sandip; Nandy, Subhas C.) Simplex range searching and k nearest neighbors of a line segment in 2D. (English summary)
— *see also* **Nandy, Subhas C. et al., 2004c:68148**
Goswami, Samrat *see* **Dey, Tamal K. et al., 2004a:68143**
Gudmundsson, Joachim *see* **Andersson, Mattias et al., 2004k:68166** *and* **(2004j:00014)**
Guha, Sumanta *see* **Dumitrescu, Adrian, (2004j:00014)**
Guibas, Leonidas J. (*with* Nguyen, An; Zhang, Li[6]) Zonotopes as bounding volumes. (English summary) (*see* **2004a:68002**)
— *see also* **Gao, Jie[1] et al., 2004f:68166** *and* **Asano, Tetsuo et al., 2004i:68223**
Halperin, Dan *see* **Ezra, Eti et al., 2004m:68258**
Har-Peled, Sariel *see* **Cheong, Otfried et al., 2004m:68255** *and* **Erickson, Jeff, 2004m:68257**
He, Yuan Jun (*with* Sun, Cheng Shan; Cao, Jin Yong) An algorithm of finding path of embroider suture needle. (Chinese. English and Chinese summaries)
Hernando, Carmen (*with* Houle, Michael E.; Hurtado, Ferran) On local transformation of polygons with visibility properties. (English summary) **2004c:68145**
Hershberger, John (*with* Suri, Subhash) Binary space partitions for 3D subdivisions. (English summary) (*see* **2004a:68002**)
— *see also* **Gao, Jie[1] et al., 2004f:68166**
Hétroy, Franck (*with* Attali, Dominique) Topological quadrangulations of closed triangulated surfaces using the Reeb graph. (English summary) **2004b:68165**
Hinrichs, Klaus H. *see* **Vahrenhold, Jan, 2004d:68169**
Hirata, Tomio *see* **Tan, Xuehou, 2004f:68169**
Hitzer, Eckhard M. S. KamiWaAi-interactive 3D sketching with Java based on Cl(4, 1) conformal model of Euclidean space. (English summary)
Hoffmann, Michael *see* **Bruce, Richard et al., (2004j:68002)**
Hoffmann, Michael (*with* Tóth, Csaba D.) Alternating paths through disjoint line segments. (English summary) **2004g:68180**
Houle, Michael E. *see* **Hernando, Carmen et al., 2004c:68145**
Huai, Jin Peng *see* **Wu, Zhuang Zhi et al., 2004b:68170**
Hungershöfer, Jan (*with* Wierum, Jens-Michael) On the quality of partitions based on space-filling curves. (English summary) (*see* **2004j:00014**)
Hurtado, Ferran *see* **Hernando, Carmen et al., 2004c:68145**; **Abellanas, M. et al., 2004d:68160**; **Aichholzer, Oswin et al., 2004g:68175** *and* **Díaz-Báñez, J. M. et al., 2004h:68142**
Hwang, Hsien-Kuei *see* **Chen, Wei-Mei et al., 2004i:68225**
Hwang, Wei-Chung (*with* Chuang, Jung-Hong) N-sided hole filling and vertex blending using subdivision surfaces. (English summary) **2004i:68227**
Iacono, John (*with* Langerman, Stefan) Volume queries in polyhedra. (English summary) **2004j:68177**
Icking, C. *see* **Abellanas, M. et al., 2004d:68160**
Ilinkin, Ivaylo (*with* Janardan, Ravi; Smid, Michiel) Terrain polygon decomposition, with application to layered manufacturing. (English summary)
Indyk, Piotr (*with* Venkatasubramanian, Suresh) Approximate congruence in nearly linear time. (English summary) **2004a:68146**
— *see also* **Basch, Julien et al., 2004e:68110**
Ivrissimtzis, Ioannis *see* **Rössl, Christian et al., (2004j:65004)**
Jackson, LillAnne (*with* Wismath, Stephen K.) Orthogonal polygon reconstruction from stabbing information. (English summary) **2004b:68166**
Janardan, Ravi *see* **Ilinkin, Ivaylo et al.**
Jaromczyk, Jerzy W. (*with* Kowaluk, Mirosław) Sets of lines and cutting out polyhedral objects. (English summary) **2004m:68259**
Jin, Hui[4] (*with* Gao, Wen[1]) Analysis and application of the facial expression motions based on eigen-flow. (Chinese. English and Chinese summaries)
John, Matthias *see* **Giesen, Joachim, (2004a:68002)**; **(2004j:00014)** *and* **(2004j:68020)**
Jonsson, Håkan An approximative solution to the zookeeper's problem. (English summary) **2004g:68181**
Joswig, Michael Beneath-and-beyond revisited. (English summary) **2004k:68169**
Jung, Joo-Won (*with* Chwa, Kyung-Yong) Labeling points with given rectangles. (English summary) **2004j:68178**
Kakoulis, Konstantinos G. (*with* Tollis, Ioannis G.) A unified approach to automatic label placement. (English summary) **2004c:68146**
Karavelas, Menelaos I. (*with* Emiris, Ioannis Z.) Root comparison techniques applied to computing the additively weighted Voronoi diagram. (English summary) (*see* **2004a:68002**)
— *see also* **Boissonnat, Jean-Daniel, (2004a:68002)**
Katoh, Naoki (*with* Kojima, Hiromichi; Taniguchi, Ryo) Approximating uniform triangular meshes for spheres. (English summary) (*see* **2004j:52001**)
Katz, Matthew J. *see* **de Berg, Mark et al., 2004b:68141** *and* **Ben-Moshe, Boaz et al., 2004j:68175**
Kauffmann, Pierre (*with* Spehner, Jean-Claude) The construction of Delaunay diagrams by lob reduction. (English summary) (*see* **2004j:52001**)
(Kaufmann, Michael) *see* **Symposium: Graph Drawing**
Kirkpatrick, David (*with* Speckmann, Bettina) Separation sensitive kinetic separation structures for convex polygons. (English summary) (*see* **2004j:52001**)
— *see also* **Bose, Prosenjit et al., 2004g:68178**
Klein, Rolf *see* **Abellanas, M. et al., 2004d:68160**
Kobourov, Stephen G. *see* **Gajer, Pawel, 2004f:68165**
Kojima, Hiromichi *see* **Katoh, Naoki et al., (2004j:52001)**
Koltun, Vladlen Segment intersection searching problems in general settings. (English summary) **2004f:68167**
— (*with* Sharir, Micha) 3-dimensional Euclidean Voronoi diagrams of lines with a fixed number of orientations. (English summary) **2004i:68228**
— (*with* Sharir, Micha) The partition technique for overlays of envelopes. (English summary) **2004h:68145**
— Sharp bounds for vertical decompositions of linear arrangements in four dimensions. (English summary) **2004m:68260**
— Ready, set, go! The Voronoi diagram of moving points that start from a line. (English summary) **2004j:68179**
Korolev, L. N. Some methods for the "normalization" of images. (Russian. Russian summary)
Kowaluk, Mirosław *see* **Jaromczyk, Jerzy W., 2004m:68259**
Krasser, Hannes *see* **Aichholzer, Oswin et al., 2004g:68175** *and* **2004k:68165**
van Kreveld, Marc *see* **Bose, Prosenjit et al., 2004c:68140** *and* **Aronov, Boris et al., 2004g:68176**
Krizanc, Danny *see* **Bruce, Richard et al., (2004j:68002)**
Kusakari, Yoshiyuki (*with* Nishizeki, Takao) Finding a region with the minimum total L_1 distance from prescribed terminals. (English summary) **2004b:68167**
Langerman, Stefan The complexity of halfspace area queries. (English summary) **2004i:68229**
— *see also* **Iacono, John, 2004j:68177**
Langetepe, Elmar *see* **Abellanas, M. et al., 2004d:68160**
Lasenby, Anthony *see* **Doran, Chris et al., (2004m:65003)**
Lasenby, Joan *see* **Doran, Chris et al., (2004m:65003)**
Lazard, Sylvain *see* **Boissonnat, Jean-Daniel, 2004d:68162**; **Agarwal, Pankaj K. et al., 2004j:68172** *and* **Devillers, Olivier et al., 2004m:68256**
Lee, Jae-Ha *see* **Park, Sang-Min et al.**
Levcopoulos, Christos (*with* Lingas, Andrzej; Mitchell, Joseph S. B.) Adaptive algorithms for constructing convex hulls and triangulations of polygonal chains. (English summary)
— *see also* **Andersson, Mattias et al., 2004k:68166** *and* **(2004j:00014)**

Lev-Tov, Nissan (*with* Peleg, David) Exact algorithms and approximation schemes for base station placement problems. (English summary)
Li, Xiang-Yang Generating well-shaped d-dimensional Delaunay meshes. (English summary) **2004b:68168**
Li, Xue-Qing (*with* Meng, Xiang-Xu; Wang, Jia Ye; Wang, Wen Ping[1]; Chung, Kelvin; Yiu, Siu Ming) Detecting collision of polytopes using a heuristic search for separating vectors. (English and Chinese summaries)
Li, Zaiqing *see* **Bose, Prosenjit et al., 2004g:68178**
Li, Zhangjian (*with* Nakano, Shin-ichi) Efficient generation of plane triangulations without repetitions. (English summary)
Lieutier, André *see* **Edalat, Abbas, 2004e:68112**
Lin, Xuemin (*with* Eades, Peter) Towards area requirements for drawing hierarchically planar graphs. (English summary) **2004d:68166**
Lincke, C. (*with* Wüthrich, Charles Albert) Surface digitizations by dilations which are tunnel-free. (English summary) **2004a:68147**
Lingas, Andrzej *see* **Levcopoulos, Christos et al.**
Linial, Nathan *see* **Cheong, Otfried et al., 2004m:68255**
Liotta, Giuseppe (*with* Meijer, Henk) Voronoi drawings of trees. (English summary) **2004i:68230**
— *see also* **Di Giacomo, Emilio et al.**
Liu, Ding[1] A note on point location in arrangements of hyperplanes. (English summary)
Liu, Wen Hai (*with* Wang, Ren Hong) An approach to NURBS surface shape modification. (Chinese. English and Chinese summaries) **2004c:68147**
Liu, Yuanxin *see* **Cabello, Sergio et al., 2004m:68254**
Lluch, A. *see* **Arnal, A. et al., (2004j:00013)**
López-Ortiz, Alejandro (*with* Schuierer, Sven) Searching and on-line recognition of star-shaped polygons. (English summary) **2004h:68146**
Lorenzetto, Gian Paolo (*with* Datta, Amitava) A linear time heuristics for trapezoidation of GIS polygons. (English summary) (*see* **2004j:00014**)
Luan, Shuang *see* **Chen, Danny Z. et al.**
Ma, Lihong *see* **Abellanas, M. et al., 2004d:68160**
Magen, Avner *see* **Czumaj, Artur et al., (2004a:68002)**
Maheshwari, Anil *see* **Bose, Prosenjit et al., 2004c:68140**
Malandain, Grégoire (*with* Boissonnat, Jean-Daniel) Computing the diameter of a point set. (English summary) **2004j:68180**
Malgouyres, Rémy *see* **Burguet, Jasmine, 2004b:68161** *and* **Fourey, Sébastien, 2004b:68164**
Manocha, Dinesh *see* **Cohen, Jonathan D. et al., 2004i:68226**
Mantler, Andrea (*with* Snoeyink, Jack) Intersecting red and blue line segments in optimal time and precision. (English summary) (*see* **2004j:52001**)
— *see also* **Cabello, Sergio et al., 2004m:68254**
Markou, Euripides (*with* Zachos, Stathis; Fragoudakis, Christodoulos) Maximizing the guarded boundary of an art gallery is APX-complete. (English summary) (*see* **2004j:68002**)
Matoušek, Jiří *see* **Cheong, Otfried et al., 2004m:68255**
McLaughlin, Harry W. *see* **Geer, Panama et al., 2004h:68144**
Mehlhorn, Kurt (*with* Seel, Michael) Infimaximal frames: a technique for making lines look like segments. (English summary) **2004e:68113**
Meijer, Henk *see* **Díaz-Báñez, J. M. et al., 2004h:68142** *and* **Liotta, Giuseppe, 2004i:68230**
Meng, Xiang-Xu *see* **Li, Xue-Qing et al.**
Mesmoudi, Mohammed Mostefa *see* **De Floriani, Leila et al., 2004c:68143**
Michael, T. S. (*with* Pinciu, Val) Art gallery theorems for guarded guards. (English summary) **2004g:68182**
Milanfar, Peyman *see* **Gardner, Richard J., 2004a:68145**
Mili, Rym *see* **Castelló, Rodolfo et al.**
Mitchell, Joseph S. B. *see* **Arkin, Esther M. et al., 2004c:68139**; **2004d:68161** *and* **Levcopoulos, Christos et al.**
Monterde, Juan *see* **Cosín, C., (2004j:00013)** *and* **Arnal, A. et al., (2004j:00013)**
Morando, Franco *see* **De Floriani, Leila et al., 2004c:68143**
Morin, Pat *see* **Bose, Prosenjit et al., 2004c:68140** *and* **de Berg, Mark et al., 2004m:68252**
Morrison, Jason *see* **Bose, Prosenjit et al., 2004c:68140**
Mortensen, Christian Worm Fully-dynamic two dimensional orthogonal range and the line segment intersection reporting in logarithmic time. (English summary) (*see* **2004a:68002**)
Mukhopadhyay, Asish (*with* Rao, Seela Veerabhadreswara) On computing a largest empty arbitrarily oriented rectangle. (English summary) **2004d:68167**
Na, Hyeon-Suk *see* **Devillers, Olivier et al., 2004m:68256**
Nagai, Takayuki (*with* Tokura, Nobuki) Tight error bounds of geometric problems on convex objects with imprecise coordinates. (English summary) (*see* **2004j:52001**)
Nakano, Shin-ichi *see* **Li, Zhangjian**
Nandy, Subhas C. (*with* Bhattacharya, Bhargab B.) On finding an empty staircase polygon of largest area (width) in a planar point-set. (English summary) **2004h:68147**
— (*with* Das, Sandip; Goswami, Partha P.) An efficient k nearest neighbors searching algorithm for a query line. (English summary) **2004c:68148**
— *see also* **Bishnu, Arijit et al., (2004j:68002)** *and* **Goswami, Partha P. et al.**
Narasimhan, Giri (*with* Zhu, Jianlin; Zachariasen, Martin) Experiments with computing geometric minimum spanning trees. (English summary) **2004j:68181**
— *see also* **Andersson, Mattias et al., 2004k:68166** *and* **(2004j:00014)**
Newman, Ilan *see* **Czumaj, Artur et al., (2004a:68002)**
Ngọc-Minh Lê Abstract Voronoi diagram in 3-space. (English summary) **2004m:68261**
Nguyen, An *see* **Guibas, Leonidas J. et al., (2004a:68002)**
Nilsson, Bengt J. Approximating a shortest watchman route. (English summary)
Nishizeki, Takao *see* **Kusakari, Yoshiyuki, 2004b:68167**
Olano, Marc *see* **Cohen, Jonathan D. et al., 2004i:68226**
van Oostrum, René *see* **Ahn, Hee-Kap et al., 2004g:68174**; **2004j:68173** *and* **Aronov, Boris et al., 2004g:68176**
Orden Martín, David (*with* Santos, Francisco) Asymptotically efficient triangulations of the d-cube. (English summary) **2004i:68231**
Overmars, Mark *see* **de Berg, Mark et al., 2004h:68141** *and* **Soss, Michael et al., 2004j:68183**
Pach, János On the complexity of the union of geometric objects. (English summary) **2004m:68262**
— (*with* Solymosi, József) Structure theorems for systems of segments. (English summary) **2004m:68263**
— (*with* Tardos, Gábor) Untangling a polygon. (English summary) **2004c:68149**
— (*with* Safruti, Ido; Sharir, Micha) The union of congruent cubes in three dimensions. (English summary) **2004f:68168**
Palop, B. *see* **Abellanas, M. et al., 2004d:68160**
Panyukov, V. V. Construction of the convex hull of a set in a minimum number of iterations. (Russian. Russian summary) **2004j:68182**
Park, Sang-Min (*with* Lee, Jae-Ha; Chwa, Kyung-Yong) Visibility-based pursuit-evasion in a polygonal region by a searcher. (English summary)
Patrignani, Maurizio *see* **Di Giacomo, Emilio et al.**
Pau, Petru Translating convex polyhedra to contain a maximum number of points. (English summary) **2004i:68232**
Peleg, David *see* **Lev-Tov, Nissan**
Petitjean, Sylvain *see* **Devillers, Olivier et al., 2004m:68256**
Pfeifle, Julian (*with* Rambau, Jörg) Computing triangulations using oriented matroids. (English summary) **2004i:68233**
Piatko, Christine D. *see* **Arkin, Esther M. et al., 2004c:68139**
Pinciu, Val A coloring algorithm for finding connected guards in art galleries. (English summary) (*see* **2004k:68004**)
— *see also* **Michael, T. S., 2004g:68182**
Preparata, Franco P. *see* **Devillers, Olivier, 2004d:68164**
Puppo, Enrico *see* **De Floriani, Leila et al., 2004c:68143**
Purchase, Helen C. (*with* Allder, Jo-Anne; Carrington, David) Graph layout aesthetics in UML diagrams: user preferences. (English summary)
Qian, Jianbo *see* **Duncan, Rob et al., 2004b:68163**
Raman, Rajeev *see* **Bruce, Richard et al., (2004j:68002)**
Rambau, Jörg *see* **Pfeifle, Julian, 2004i:68233**
Rao, Seela Veerabhadreswara *see* **Mukhopadhyay, Asish, 2004d:68167**
Rappaport, David *see* **Díaz-Báñez, J. M. et al., 2004h:68142**
Rémy, Jean-Luc *see* **Debled-Rennesson, Isabelle et al., 2004d:68163**
Rimon, Elon *see* **Gabriely, Yoav, 2004a:68144**
Robbins, Steven M. *see* **Agarwal, Pankaj K. et al., 2004j:68172**
Rössl, Christian (*with* Ivrissimtzis, Ioannis; Seidel, Hans-Peter) Tree-based triangle mesh connectivity encoding. (English summary) (*see* **2004j:65004**)
Rouyer-Degli, Jocelyne *see* **Debled-Rennesson, Isabelle et al., 2004d:68163**
Rubinfeld, Ronitt *see* **Czumaj, Artur et al., (2004a:68002)**
Sabharwal, Yogish (*with* Sharma, Nishant; Sen, Sandeep) Nearest neighbors search using point location in balls with applications to approximate Voronoi decompositions. (English summary) **2004k:68170**
Sacristán, Vera *see* **Abellanas, M. et al., 2004d:68160**
Safruti, Ido *see* **Pach, János et al., 2004f:68168**
Santos, Francisco *see* **Orden Martín, David, 2004i:68231**
Satoh, Naoyuki (*with* Tokuyama, Yoshimasa) Method for generating offset surfaces without very small elements. (Japanese. English and Japanese summaries)
Schaefer, Marcus (*with* Sedgwick, Eric; Štefankovič, Daniel) Algorithms for normal curves and surfaces. (English summary)
Schiffenbauer, Robert *see* **Aronov, Boris et al., 2004j:68174**
Schöbel, Anita Anchored hyperplane location problems. (English summary) **2004a:68148**
Schramm, Étienne (*with* Schreck, Pascal) A case study in geometric constructions. (English summary) (*see* **2004j:00013**)
Schreck, Pascal *see* **Schramm, Étienne, (2004j:00013)**
Schuierer, Sven *see* **López-Ortiz, Alejandro, 2004h:68146**
Sedgwick, Eric *see* **Schaefer, Marcus et al.**
Seel, Michael *see* **Mehlhorn, Kurt, 2004e:68113**
Seidel, Hans-Peter *see* **Rössl, Christian et al., (2004j:65004)**
Sellarès, J. Antoni *see* **Díaz-Báñez, J. M. et al., 2004h:68142**
Sen, Sandeep *see* **Sabharwal, Yogish et al., 2004k:68170**
Sharir, Micha (*with* Smorodinskiĭ, S. S.) On neighbors in geometric permutations. (English summary)
— *see also* **Pach, János et al., 2004f:68168**; **Koltun, Vladlen, 2004h:68145**; **2004i:68228**; **Aronov, Boris et al., 2004j:68174** *and* **Ezra, Eti et al., 2004m:68258**
Sharma, Nishant *see* **Sabharwal, Yogish et al., 2004k:68170**
Shen, Hong[2] *see* **Chin, Francis Y. L. et al., 2004d:68170b**
Shin, Chan-Su *see* **Ahn, Hee-Kap et al., 2004c:68138** *and* **Cheong, Otfried et al., 2004e:68111**
Smid, Michiel *see* **Ilinkin, Ivaylo et al.**
Smorodinskiĭ, S. S. *see* **Sharir, Micha**
Snoeyink, Jack *see* **Carr, Hamish et al., 2004b:68162**; **Asano, Tetsuo et al., 2004i:68223**; **Cabello, Sergio et al., 2004m:68254** *and* **Mantler, Andrea, (2004j:52001)**
Sohler, Christian *see* **Czumaj, Artur et al., (2004a:68002)**
Solymosi, József *see* **Pach, János, 2004m:68263**
Soss, Michael (*with* Erickson, Jeff; Overmars, Mark) Preprocessing chains for fast dihedral rotations is hard or even impossible. (English summary) **2004j:68183**
Speckmann, Bettina (*with* Tóth, Csaba D.) Allocating vertex π-guards in simple polygons via pseudo-triangulations. (English summary) (*see* **2004a:68002**)
— *see also* **Kirkpatrick, David, (2004j:52001)**
Spehner, Jean-Claude *see* **Kauffmann, Pierre, (2004j:52001)**
van der Stappen, A. Frank *see* **de Berg, Mark et al., 2004h:68141**
Štefankovič, Daniel *see* **Schaefer, Marcus et al.**
Streinu, Ileana Combinatorial roadmaps in configuration spaces of simple planar polygons. (English summary) **2004i:68234**
Sun, Cheng Shan *see* **He, Yuan Jun et al.**
Suri, Subhash *see* **Agarwal, Pankaj K. et al., 2004j:68172** *and* **Hershberger, John, (2004a:68002)**
Tamaki, Hisao *see* **Asano, Tetsuo et al., 2004i:68223**
Tamassia, Roberto *see* **Bridgeman, Stina**
Tan, Xuehou Efficient algorithms for searching a polygonal room with a door. (English summary) (*see* **2004j:52001**)

— (*with* Hirata, Tomio) Finding shortest safari routes in simple polygons. (English summary) **2004f:68169**
Taniguchi, Ryo *see* **Katoh, Naoki et al.**, (**2004j:52001**)
Tardos, Gábor *see* **Pach, János**, **2004c:68149**
Teillaud, Monique *see* **Devillers, Olivier**, (**2004a:68002**)
Theobald, Thorsten Visibility computations: from discete algorithms to real algebraic geometry. (English summary) **2004h:68148**
Tokura, Nobuki *see* **Nagai, Takayuki**, (**2004j:52001**)
Tokuyama, Takeshi Efficient algorithms for the minimum diameter bridge problem. (English summary) (*see* **2004j:52001**)
— Efficient algorithms for the minimum diameter bridge problem. (English summary) **2004a:68149**
Tokuyama, Yoshimasa *see* **Satoh, Naoyuki**
Tollis, Ioannis G. *see* **Kakoulis, Konstantinos G.**, **2004c:68146** *and* **Castelló, Rodolfo et al.**
Tóth, Csaba D. Guarding disjoint triangles and claws in the plane. (English summary) **2004d:68168**
— *see also* **Hoffmann, Michael**, **2004g:68180** *and* **Speckmann, Bettina**, (**2004a:68002**)
Tsai, Tsung-Hsi *see* **Chen, Wei-Mei et al.**, **2004i:68225**
Unsworth, Keith *see* **Geer, Panama et al.**, **2004h:68144**
Vahrenhold, Jan (*with* Hinrichs, Klaus H.) Planar point location for large data sets: to seek or not to seek. (English summary) **2004d:68169**
Varadarajan, Kasturi R. *see* **Aronov, Boris et al.**, **2004g:68176**
Veelaert, Peter Graph-theoretical properties of parallelism in the digital plane. (English summary) **2004b:68169**
Venkatasubramanian, Suresh *see* **Indyk, Piotr**, **2004a:68146**
Vigneron, Antoine *see* **Duncan, Rob et al.**, **2004b:68163** *and* **Cheong, Otfried et al.**, **2004e:68111**
Vleugels, Jules *see* **de Berg, Mark et al.**, **2004h:68141**
Wang, Fu Lee *see* **Errata: "Efficient algorithm for transversal of disjoint convex polygons"**, **2004d:68170a**; **Chin, Francis Y. L. et al.**, **2004d:68170a** *and* **2004d:68170b**
Wang, Guo Jin[1] *see* **Zhang, Jing Qiao et al.**, **2004j:68184** *and* **Xie, Ben Huai**
Wang, Jia Ye *see* **Li, Xue-Qing et al.**
Wang, Ren Hong *see* **Liu, Wen Hai**, **2004c:68147**
Wang, Wen Ping[1] *see* **Li, Xue-Qing et al.**
Wenger, Rephael *see* **Dey, Tamal K.**, **2004d:68165**
Whitesides, Sue H. *see* **Agarwal, Pankaj K. et al.**, **2004j:68172**
Widmayer, Peter *see* **Eidenbenz, Stephan J.**, **2004h:68143**
Wierum, Jens-Michael *see* **Hungershöfer, Jan**, (**2004j:00014**)
Wismath, Stephen K. *see* **Jackson, LillAnne**, **2004b:68166** *and* **Bose, Prosenjit et al.**, **2004k:68167**
Wu, Ke Qin (*with* Yang, Guan Jie) An optimized implementation of the gift-wrapping algorithm for three-dimensional convex hull. (Chinese. English and Chinese summaries)
Wu, Yu Gong *see* **Fan, Zhi Gang et al.**
Wu, Zhuang Zhi (*with* Huai, Jin Peng; Yang, Qin[2]) Algorithm for constructing the regular triangulation of a set of weighted points in E^d. (Chinese. English and Chinese summaries) **2004b:68170**
Wüthrich, Charles Albert *see* **Lincke, C.**, **2004a:68147**
Xie, Ben Huai (*with* Wang, Guo Jin[1]) Approximating the derivative bounds of parametric curves and applying to curve rasterization. (Chinese. English and Chinese summaries)
Xu, Bin *see* **Chen, Danny Z.**
Xu, Jinhui *see* **Chen, Danny Z. et al.**
Yang, Guan Jie *see* **Wu, Ke Qin**
Yang, Qin[2] *see* **Wu, Zhuang Zhi et al.**, **2004b:68170**
Yiu, Siu Ming *see* **Li, Xue-Qing et al.**
Zachariasen, Martin *see* **Narasimhan, Giri et al.**, **2004j:68181**
Zachos, Stathis *see* **Markou, Euripides et al.**, (**2004j:68002**)
Zhang, Jing Qiao (*with* Wang, Guo Jin[1]; Zheng, Jian Min[1]) Curve interpolation based on non-uniform Catmull-Clark subdivision scheme. (Chinese. English and Chinese summaries) **2004j:68184**
Zhang, Jingyuan *see* **Fan, Guangbin**, **2004c:68144**
Zhang, Li[6] *see* **Basch, Julien et al.**, **2004e:68110**; **Gao, Jie**[1] **et al.**, **2004f:68166** *and* **Guibas, Leonidas J. et al.**, (**2004a:68002**)
Zhao, Wulue *see* **Dey, Tamal K. et al.**, **2004a:68143**
Zhao, Xuan He *see* **Fan, Zhi Gang et al.**
Zheng, Jian Min[1] *see* **Zhang, Jing Qiao et al.**, **2004j:68184**
Zhu, An *see* **Gao, Jie**[1] **et al.**, **2004f:68166**
Zhu, Binhai Approximating 3D points with cylindrical segments. (English summary)
— *see also* **Duncan, Rob et al.**, **2004b:68163**
Zhu, Jianlin *see* **Narasimhan, Giri et al.**, **2004j:68181**

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Errata:
"Efficient algorithm for transversal of disjoint convex polygons" Erratum to: "Efficient algorithm for transversal of disjoint convex polygons" [Inform. Process. Lett. **83** (2002) no. 3, 141–144; MR 2003b:68193] by F. Y. L. Chin and F. L. Wang. **2004d:68170a**
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(Acketa, Dragan) *see* **Lozić, Sanja et al.**, **2004m:05054**
Agarwal, Pankaj K. (*with* Sen, Sandeep) Randomized algorithms for geometric optimization problems. (English summary) **2004b:68182**
— (*with* Aronov, Boris; Sharir, Micha) On the complexity of many faces in arrangements of pseudo-segments and circles. (English summary) **2004m:52055**
— (*with* Procopiuc, Cecilia M.; Varadarajan, Kasturi R.) A $(1+\varepsilon)$-approximation algorithm for 2-line-center. (English summary) **2004g:68194**
Akiyama, Jin (*with* Nakamura, Gisaku; Nozaki, Akihiro; Ozawa, Ken'ichi) A note on the purely recursive dissection for a sequentially n-divisible square. (English summary) (*see* **2004j:52001**)
— *see also* **Discrete and computational geometry**, **2004j:52001**
Aloupis, Greg (*with* Langerman, Stefan; Soss, Michael; Toussaint, Godfried) Algorithms for bivariate medians and a Fermat-Torricelli problem for lines. (English summary) **2004e:52016**
Alt, Helmut (*with* Hurtado, Ferran) Packing convex polygons into rectangular boxes. (English summary) (*see* **2004j:52001**)
— (*with* Braß, Peter; Godau, Michael; Knauer, Christian; Wenk, Carola) Computing the Hausdorff distance of geometric patterns and shapes. (English summary) **2004m:52030**
— (*with* Efrat, Alon; Rote, Günter; Wenk, Carola) Matching planar maps. (English summary) **2004i:68238**
Arkin, Esther M. (*with* Fekete, Sándor P.; Hurtado, Ferran; Mitchell, Joseph S. B.; Noy, Marc; Sacristán, Vera; Sethia, Saurabh) On the reflexivity of point sets. (English summary) **2004m:52011**
Aronov, Boris (*with* Brönnimann, Hervé; Halperin, Dan; Schiffenbauer, Robert) On the number of views of polyhedral scenes. (English summary) **2004m:52031**
— *see also* **Discrete and computational geometry**, **2004j:00031** *and* **Agarwal, Pankaj K. et al.**, **2004m:52055**
Aspert, Nicolas (*with* Ebrahimi, Touradj; Vandergheynst, Pierre) Non-linear subdivision using local spherical coordinates. (English summary) **2004d:65025**
Attali, Dominique (*with* Boissonnat, Jean-Daniel) Complexity of the Delaunay triangulation of points on polyhedral surfaces. (English summary) **2004g:52019**
Ayala, R. (*with* Domínguez Murillo, Eladio; Frances Román, Ángel Ramón; Quintero, A.) Homotopy in digital spaces. (English summary) **2004a:55017**
Bagga, Jay S. (*with* Emert, John W.; McGrew, J. Michael) Connectivity properties of visibility graphs. (English summary)
Barequet, Gill (*with* Goodrich, Michael T.; Levi-Steiner, Aya; Steiner, Dvir) Straight-skeleton based contour interpolation. (English summary) (*see* **2004a:68002**)
Barr, Alan H. *see* **Meyer, Mark et al.**, **2004k:53004**
Bastert, Oliver (*with* Matuszewski, Christian) Layered drawings of digraphs. (*see* **2004b:05003**)
Basu, Saugata Different bounds on the different Betti numbers of semi-algebraic sets. (English summary) **2004f:14082**
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— *see also* **Discrete and computational geometry**, **2004j:00031**
Beielstein, Thomas (*with* Mehnen, Jörn; Schönemann, Lutz; Schwefel, Hans-Paul; Surmann, Tobias; Weinert, Klaus; Wiesmann, Dirk) Design of evolutionary algorithms and applications in surface reconstruction. (English summary) (*see* **2004a:00018**)
Bemporad, Alberto (*with* Filippi, Carlo; Torrisi, Fabio D.) Inner and outer approximations of polytopes using boxes. (English summary) **2004j:52004**
Bez, Helmut E. (*with* Wetzel, Thomas J.) Induced parametrisation and its applications in geometric computation. (English summary) **2004e:65019**
— (*with* Wetzel, Thomas J.) Induced rational parametrisations of special curves. (English summary) **2004i:65018**
(Biedl, Therese C.) *see* **Conference: Computational Geometry**
Binucci, Carla (*with* Didimo, Walter; Liotta, Giuseppe; Nonato, Maddalena) Computing labeled orthogonal drawings. (English summary)
Boehm, Wolfgang *see* **Prautzsch, Hartmut et al.**, **2004e:65017**
Bohlin, Robert (*with* Kavraki, Lydia E.) A randomized approach to robot path planning based on lazy evaluation. (English summary) **2004a:68161**
Boissonnat, Jean-Daniel *see* **Attali, Dominique**, **2004g:52019**
Borouchaki, Houman *see* **George, Paul-Louis**
Bose, Prosenjit (*with* Morin, Pat) Testing the quality of manufactured disks and balls. (English summary) **2004m:90030**
Bowers, Philip L. (*with* Hurdal, Monica K.) Planar conformal mappings of piecewise flat surfaces. (*see* **2004j:00028**)
Brandenberg, René (*with* Theobald, Thorsten) Algebraic methods for computing smallest enclosing and circumscribing cylinders of simplices. (English summary) **2004m:52019**
Brandes, Ulrik Drawing on physical analogies. (*see* **2004b:05003**)
Branke, Jürgen Dynamic graph drawing. (*see* **2004b:05003**)
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— *see also* **Alt, Helmut et al.**, **2004m:52030**
Bridgeman, Stina (*with* Tamassia, Roberto) Difference metrics for interactive orthogonal graph drawing algorithms. (English summary) **2004g:68128**
Brieden, Andreas (*with* Gritzmann, Peter; Kannan, Ravindran; Klee, Victor; Lovász, László; Simonovits, Miklós) Deterministic and randomized polynomial-time approximation of radii. (English summary) **2004f:52012**
Brockenauer, Ralf (*with* Cornelsen, Sabine) Drawing clusters and hierarchies. (*see* **2004b:05003**)
Brodal, Gerth Stølting (*with* Fagerberg, Rolf) Cache oblivious distribution sweeping. (English summary)
Brönnimann, Hervé *see* **Aronov, Boris et al.**, **2004m:52031**
(Brunnett, Guido) *see* **Geometric modeling for scientific visualization**, **2004j:65006**
Buss, Samuel R. ★ 3-D computer graphics. **2004c:68001**
Buzer, Lilian An incremental linear time algorithm for digital line and plane recognition using a linear incremental feasibility problem. (English summary) **2004b:90178**
Cabello, Sergio (*with* van Kreveld, Marc) Approximation algorithms for aligning points. (English summary) **2004f:68186**
Carmignani, Andrea (*with* Di Battista, Giuseppe; Didimo, Walter; Matera, Francesco; Pizzonia, Maurizio) Visualization of the high level structure of the internet with HERMES. (English summary)
Carvalho, Paulo Cézar Pinto *see* **de Figueiredo, Luiz Henrique**, **2004e:65001**
Chan, Timothy M. On levels in arrangements of curves. (English summary) **2004a:52045**
Charikar, Moses (*with* Indyk, Piotr; Panigrahy, Rina) New algorithms for subset query, partial match, orthogonal range searching, and related problems. (English summary)
Chen, Danny Z. (*with* Luan, Shuang; Xu, Jinhui) Topological peeling and applications.

(English summary) **2004c:52019**
— (*with* Daescu, Ovidiu; Hu, Xiaobo; Xu, Jinhui) Finding an optimal path without growing the tree. (English summary) **2004m:68088**
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Cheng, Siu-Wing (*with* Poon, Sheung-Hung) Graded conforming Delaunay tetrahedralization with bounded radius-edge ratio. (English summary) (*see* **2004a:68002**)
— (*with* Dey, Tamal K.) Quality meshing with weighted Delaunay refinement. (English summary) **2004m:65015**
— (*with* Dey, Tamal K.; Poon, Sheung-Hung) Hierarchy of surface models and irreducible triangulations. (English summary) **2004m:52058**
Chiang, Ching-Shoei (*with* Joan-Arinyo, Robert) Revisiting variable radius circles in constructive geometric constraint solving. (English summary) **2004m:65024**
Chuang, Jung-Hong *see* **Hwang, Wei-Chung**, **2004j:65024**
Cimoca, Gheorghe Circular fittings for finite planar point sets. (English summary)
Clarenz, Ulrich (*with* Dziuk, Gerhard; Rumpf, Martin) On generalized mean curvature flow in surface processing. **2004k:53097**
Colin de Verdière, Éric (*with* Pocchiola, Michel; Vegter, Gert) Tutte's barycenter method applied to isotopies. (English summary) **2004g:05047**
Cornelsen, Sabine *see* **Brockenauer, Ralf**, (**2004b:05003**)
Cortés, Carmen (*with* Márquez, Alberto; Valenzuela, J.) Euclidean position in Euclidean 2-orbifolds. (English summary) **2004m:52032**
Cox, James L. (*with* Karron, D. B.; Ferdous, Nazma) Topological zone organization of scalar volume data. (English summary) **2004b:68172**
Cristescu, Gabriela (*with* Lupşa, Liana) Classes of discrete convexity properties. (English summary) **2004m:39029**
Culver, Tim (*with* Keyser, John; Manocha, Dinesh; Krishnan, Shankar) A hybrid approach for determinant signs of moderate-sized matrices. (English summary) **2004m:65060**
Daescu, Ovidiu *see* **Chen, Danny Z. et al.**, **2004m:68088**
Das, P. C. *see* **Jena, M. K. et al.**, **2004d:65028**
Dehlinger, Christophe (*with* Dufourd, Jean-François) Formalizing the trading theorem for the classification of surfaces. (English summary) (*see* **2004k:68010**)
Delgado Gracia, Jorge (*with* Peña, Juan Manuel) A shape preserving representation with an evaluation algorithm of linear complexity. (English summary) **2004a:65017**
Demaine, Erik D. Folding and unfolding linkages, paper, and polyhedra. (*see* **2004j:52001**)
— (*with* Demaine, Martin L.; Hoffmann, Michael; O'Rourke, Joseph) Pushing blocks is hard. (English summary) **2004e:68036**
— *see also* **Hearn, Robert A.**
Demaine, Martin L. *see* **Demaine, Erik D. et al.**, **2004e:68036**
Deng, Xiao-Tie Randomized geometry algorithms for coarse grained parallel computers. (English summary) **2004b:68183**
Desbrun, Mathieu *see* **Meyer, Mark et al.**, **2004k:53004**
Devillers, Olivier The number of cylindrical shells. (English summary) **2004g:52021**
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Dey, Tamal K. (*with* Giesen, Joachim) Detecting undersampling in surface reconstruction. (English summary) **2004m:65016**
— *see also* **Cheng, Siu-Wing et al.**, **2004m:52058** *and* **2004m:65015**
Díaz-Báñez, J. M. (*with* Hurtado, Ferran; Meijer, Henk; Rappaport, David; Sellarès, J. Antoni) The largest empty annulus problem. (English summary) (*see* **2004j:00014**)
Di Battista, Giuseppe *see* **Carmignani, Andrea et al.**
Didimo, Walter *see* **Carmignani, Andrea et al.** *and* **Binucci, Carla et al.**
Dillencourt, Michael B. (*with* Eppstein, David; Hirschberg, Daniel S.) Geometric thickness of complete graphs. (English summary) **2004f:05044**
Di Mascio, Tania *see* **Frigioni, Daniele et al.**, **2004f:68172**
Domínguez Murillo, Eladio *see* **Ayala, R. et al.**, **2004a:55017**
Dufourd, Jean-François *see* **Dehlinger, Christophe**, (**2004k:68010**)
Duncan, Christian A. (*with* Goodrich, Michael T.; Kobourov, Stephen G.) Planarity-preserving clustering and embedding for large planar graphs. (English summary) **2004a:05041**
Dziuk, Gerhard *see* **Clarenz, Ulrich et al.**, **2004k:53097**
Eades, Peter *see* **Friedrich, Carsten**, **2004f:68116**
Ebbers-Baumann, Annette (*with* Klein, Rolf; Langetepe, Elmar; Lingas, Andrzej) A fast algorithm for approximating the detour of a polygon chain. (English summary) **2004j:68197**
Ebrahimi, Touradj *see* **Aspert, Nicolas et al.**, **2004d:65025**
Edelsbrunner, Herbert Surface reconstruction by wrapping finite sets in space. (English summary) **2004m:65017**
— (*with* Zomorodian, Afra) Computing linking numbers of a filtration. (English summary) **2004g:57002**
— *see also* **Cheng, Ho-Lun**, **2004g:52020**
Efrat, Alon *see* **Alt, Helmut et al.**, **2004i:68238**
Eiglsperger, Markus (*with* Fekete, Sándor P.; Klau, Gunnar W.) Orthogonal graph drawing. (*see* **2004b:05003**)
Emert, John W. *see* **Bagga, Jay S. et al.**
Eppstein, David *see* **Dillencourt, Michael B. et al.**, **2004f:05044** *and* **ACM Symposium: Computational Geometry**
Estkowski, Regina *see* **Devillers, Olivier et al.**, **2004h:52017**
Everett, Hazel (*with* Wismath, Stephen K.) Editorial [Special issue on the 14th Canadian Conference on Computational Geometry—CCCG02].
Fagerberg, Rolf *see* **Brodal, Gerth Stølting**
Farber, Michael Topological complexity of motion planning. (English summary) **2004c:68132**
Fekete, Sándor P. *see* **Arkin, Esther M. et al.**, **2004m:52011** *and* **Eiglsperger, Markus et al.**, (**2004b:05003**)
Feng, Jie Qing (*with* Guo, Jian Min; Jin, Xiao Gang[2]; Peng, Qun Sheng) Improved accurate free-form deformation of polygonal objects. (Chinese. English and Chinese summaries)
Ferdous, Nazma *see* **Cox, James L. et al.**, **2004b:68172**
Fiala, Jiří (*with* Kratochvíl, Jan; Proskurowski, Andrzej) Geometric systems of disjoint representatives. (English summary)
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Filippi, Carlo *see* **Bemporad, Alberto et al.**, **2004j:52004**
Fink, Eugene (*with* Wood, Derick) Planar strong visibility. (English summary) **2004c:52020**
Fleischer, Rudolf (*with* Hirsch, Colin) Graph drawing and its applications. (*see* **2004b:05003**)
Frances Román, Ángel Ramón *see* **Ayala, R. et al.**, **2004a:55017**
Freund, Robert M. *see* **Xu, Sheng et al.**, **2004f:90133**
Friedman, Jerome H. (*with* Stuetzle, Werner) John W. Tukey's work on interactive graphics. (English summary) **2004c:62004**
Friedrich, Carsten (*with* Eades, Peter) Graph drawing in motion. (English summary) **2004f:68116**
Frigioni, Daniele (*with* Tarantino, Laura; Di Mascio, Tania) On formal aspects of zooming in geographic maps. (English summary) **2004f:68172**
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Gandoin, Pierre-Marie *see* **Devillers, Olivier et al.**, **2004h:52017**
Garg, Ashim (*with* Rusu, Adrian) Area-efficient order-preserving planar straight-line drawings of ordered trees. (English summary)
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Gavrilova, Marina L. (*with* Rokne, Jon) Updating the topology of the dynamic Voronoi diagram for spheres in Euclidean d-dimensional space. (English summary) **2004f:65022**
George, Paul-Louis (*with* Borouchaki, Houman) Maillage simplicial d'un polyèdre arbitraire. (English and French summaries) [Simplicial mesh of an arbitrary polyhedron]
Giesen, Joachim (*with* John, Matthias; Stöcklin, Michel) Symmetry of flow diagrams derived from weighted points in the plane. (English summary) **2004h:52018**
— *see also* **Dey, Tamal K.**, **2004m:65016**
Godau, Michael *see* **Alt, Helmut et al.**, **2004m:52030**
Goldman, Ronald N. *see* **Wang, Wen Ping[1] et al.**, **2004j:65030**
Golin, Mordecai J. (*with* Na, Hyeon-Suk) On the average complexity of 3D-Voronoi diagrams of random points on convex polytopes. (English summary) **2004c:52023**
Gomboši, Matej (*with* Žalik, Borut) Analyzing changes between two sets of polygons using plane subdivision. (English summary)
(Goodman, Jacob Eli) *see* **Discrete and computational geometry**, **2004j:00031**
Goodrich, Michael T. *see* **Duncan, Christian A. et al.**, **2004a:05041** *and* **Barequet, Gill et al.**, (**2004a:68002**)
Greiner, G. *see* **Labsik, U.**, (**2004j:65004**)
Gritzmann, Peter *see* **Brieden, Andreas et al.**, **2004f:52012**
Gröller, Eduard *see* **Hauser, Helwig et al.**, (**2004j:65006**)
Grushets'kiĭ, Oleksandr M. *see* **Ryabchenko, Valeriĭ V. et al.**, **2004m:52034**
Gudmundsson, Joachim (*with* Haverkort, Herman; Park, Sang-Min; Shin, Chan-Su; Wolff, Alexander) Facility location and the geometric minimum-diameter spanning tree. (English summary) **2004m:90068**
Guo, Jian Min *see* **Feng, Jie Qing et al.**
Halperin, Dan *see* **Linhart, Chaim et al.**, **2004k:52032** *and* **Aronov, Boris et al.**, **2004m:52031**
(Hamann, Bernd) *see* **Geometric modeling for scientific visualization**, **2004j:65006**
Hanniel, Iddo *see* **Linhart, Chaim et al.**, **2004k:52032**
Hansen, Olaf The radiosity equation on certain spaces of continuous functions and its numerical solution. (English summary) **2004j:45023**
Harel, David (*with* Koren, Yehuda) A fast multi-scale method for drawing large graphs. (English summary) **2004f:68118**
Har-Peled, Sariel *see* **Linhart, Chaim et al.**, **2004k:52032**
Hauser, Helwig (*with* Theußl, Thomas; Gröller, Eduard) Access to surface properties up to order two for visualization algorithms. (English summary) (*see* **2004j:65006**)
Haverkort, Herman *see* **Gudmundsson, Joachim et al.**, **2004m:90068**
Hearn, Robert A. (*with* Demaine, Erik D.) The nondeterministic constraint logic model of computation: reductions and applications. (English summary)
(Hege, Hans-Christian) *see* **Visualization and mathematics III**, **2004j:00028**
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Hiptmair, Ralf (*with* Ostrowski, J.) Generators of $H_1(\Gamma_h, \mathbb{Z})$ for triangulated surfaces: construction and classification. (English summary) **2004h:57030**
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Keller, G. Randy *see* **Torres, Roberto et al.**
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Klau, Gunnar W. *see* **Eiglsperger, Markus et al., (2004b:05003)**
Klee, Victor *see* **Brieden, Andreas et al., 2004f:52012**
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Koren, Yehuda *see* **Harel, David, 2004f:68118**
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Lubiw, Anna *see* **Iturriaga, Claudia, 2004b:05002**
Lupşa, Liana *see* **Cristescu, Gabriela, 2004m:39029**
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Marin, Mircea *see* **Ida, Tetsuo**
Márquez, Alberto *see* **Cortés, Carmen et al., 2004m:52032**
Matera, Francesco *see* **Carmignani, Andrea et al.**
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Mehnen, Jörn *see* **Beielstein, Thomas et al., (2004a:00018)**
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Mischaikow, Konstantin *see* **Kaczynski, Tomasz et al., 2004j:55006**
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Mrozek, Marian *see* **Kaczynski, Tomasz et al., 2004j:55006**
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Nakamura, Gisaku *see* **Akiyama, Jin et al., (2004j:52001)**
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Nonato, Maddalena *see* **Binucci, Carla et al.**
Noy, Marc *see* **Galtier, Jerôme et al., 2004c:52021** *and* **Arkin, Esther M. et al., 2004m:52011**
Nozaki, Akihiro *see* **Akiyama, Jin et al., (2004j:52001)**
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Okunev, O. *see* **Pashko, A. A. et al., 2004d:52004**
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Paluszny, Marco *see* **Prautzsch, Hartmut et al., 2004e:65017**
Panigrahy, Rina *see* **Charikar, Moses et al.**
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Peña, Juan Manuel *see* **Delgado Gracia, Jorge, 2004a:65017**
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Pérennès, Stéphane *see* **Galtier, Jerôme et al., 2004c:52021**
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Pocchiola, Michel *see* **Colin de Verdière, Éric et al., 2004g:05047**
(Pollack, Richard M.) *see* **Discrete and computational geometry, 2004j:00031**
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Ramesh, H. *see* **Kumar, V. S. Anil, 2004m:52044**
Ramos, Pedro A. *see* **Devillers, Olivier et al., 2004h:52017**
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(Whitesides, Sue H.) *see* **Symposium: Graph Drawing**

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68U10 Image processing

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Amano, Akira *see* **Migita, Tsuyoshi et al.**
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Amerijckx, C. (*with* Legat, J.-D.; Verleysen, Michel) Image compression using self-organizing maps. (English summary)
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Breen, David *see* **Museth, Ken et al.**
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De Agostino, Sergio *see* **Cinque, Luigi**, 2004f:68171
Delgado S., Abdi *see* **Chacon M., Mario I. et al.**
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Feng, Yan Qiu *see* **Lin, Ya Zhong et al.**
Ferdous, Nazma *see* **Cox, James L. et al.**, 2004b:68172
Fischer, Bernd[1] (*with* Modersitzki, Jan) Curvature based image registration. (English summary) **2004b:68173**
Florack, Luc M. J. *see* **Kuijper, Arjan et al.**, 2004b:68177
Foxon, B. *see* **Blackledge, Jonathan M. et al.**, (2004j:94002)
Frago, N. *see* **Burillo López, Pedro J. et al.**
Frances Román, Ángel Ramón *see* **Ciria, J. C. et al.**, 2004b:68171
Frigioni, Daniele (*with* Tarantino, Laura; Di Mascio, Tania) On formal aspects of zooming in geographic maps. (English summary) **2004f:68172**
Fuentes González, Ramón *see* **Burillo López, Pedro J. et al.**
Galán-Perales, E. *see* **Chamorro-Martínez, J. et al.**, 2004m:68265
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Grandis, Marco Ordinary and directed combinatorial homotopy, applied to image analysis and concurrency. (English summary) **2004g:68185**
Gu, Dong Bing *see* **Sun, Jun Xi et al.**
Hagiwara, I chiro *see* **Kojekine, Nikita et al.**
Haigh, J. G. B. *see* **Al-Zahrani, A. et al.**
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Karl, William Clem *see* **Feng, Haihua et al.**, 2004a:68153
Karron, D. B. *see* **Cox, James L. et al.**, 2004b:68172
Kim, Do-Jong (*with* Park, Dong-Jo) Fast iterative computation of Gaussian mixture parameters and optimal image segmentation. (English summary) **2004a:68156**
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Kindratenko, Volodymyr V. On using functions to describe the shape. (English summary) **2004c:68151**
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Köthe, Ullrich XPMaps and topological segmentation—a unified approach to finite topologies in the plane. (English summary) **2004b:68176**
Kruse, Rudolf *see* **Klose, Aljoscha**, (2004f:68136)
Kuba, Attila *see* **Balogh, E. et al.**, 2004a:68151 *and* **Tanács, Attila**
Kuijper, Arjan (*with* Florack, Luc M. J.; Viergever, Max A.) Scale space hierarchy. (English summary) **2004b:68177**
Kundu, Malay K. *see* **Dey, Sabyasachi et al.**
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Louverdis, G. (*with* Andreadis, Ioannis[2]) Soft morphological filtering using a fuzzy model and its application to colour image processing. (English summary)
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Martens, M. *see* **Adler, R. L. et al.**, 2004a:68150
Migita, Tsuyoshi (*with* Amano, Akira; Asada, Naoki) A fast nonlinear optimization algorithm for 3D shape and motion recovery. (Japanese. English and Japanese summaries)
Mihaila, Ioana *see* **Sansgiry, Prashant**, (2004c:00012)
Mikhailov, S. *see* **Blackledge, Jonathan M. et al.**, (2004j:94002)
Milanfar, Peyman *see* **Robinson, Dirk**, 2004b:68178
Modersitzki, Jan *see* **Fischer, Bernd**[1], 2004b:68173
Motogna, Simona *see* **Prejmerean, Vasile**
Museth, Ken (*with* Whitaker, Ross; Breen, David) Editing geometric models. (English summary)
Nagy, Benedek Metrics based on neighbourhood sequences in triangular grids. (English summary) **2004f:68173**
Nakamura, Kiwamu *see* **Imiya, Atsushi et al.**, 2004a:68155
Nivat, Maurice *see* **Balogh, E. et al.**, 2004a:68151
Noje, Dan (*with* Todor, Meda) BL-algebra structure of RGB model. (English summary)
Olsen, Niels Holm *see* **Swann, Andrew**, 2004f:68174
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Paramesran, Raveendran *see* **Wee, Chong-Yaw et al.**
Park, Dong-Jo *see* **Kim, Do-Jong**, 2004a:68156
Perwass, Christian *see* **Rosenhahn, Bodo et al.**, 2004m:68266
Plandowski, Wojciech *see* **Karhumäki, Juhani et al.**, 2004b:68174
Plataniotis, K. N. *see* **Szczepanski, M. et al.**
Prados-Suárez, B. *see* **Chamorro-Martínez, J. et al.**, 2004m:68265
Prejmerean, Vasile (*with* Motogna, Simona) The curves encoding. (English summary)
Qin, Qian Qing *see* **Duan, Shan**
Ray, Ajoy Kumar *see* **Chaira, Tamalika**
Renaud, Christophe *see* **Leblond, Michel et al.**, (2004j:00028)
Ritter, Gerhard X. *see* **Graña, Manuel et al.**
Robinson, Dirk (*with* Milanfar, Peyman) Fast local and global projection-based methods for affine motion estimation. (English summary) **2004b:68178**
Rosenhahn, Bodo (*with* Sommer, Gerald) Pose estimation of cycloidal curves by using twist representations. (English summary) (*see* **2004i:00012**)
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Rousselle, François *see* **Leblond, Michel et al.**, (2004j:00028)
Rytter, Wojciech *see* **Karhumäki, Juhani et al.**, 2004b:68174
Saito, Masahiko *see* **Imiya, Atsushi et al.**, 2004a:68155
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Kang, Li-shan *see* **Zeng, Sanyou et al., 2004m:94006**
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Keriven, Renaud *see* **Faugeras, Olivier et al.**
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Lamberti, C. *see* **Sarti, Alessandro et al.**
Larmore, Lawrence L. *see* **Berman, Piotr et al., 2004b:68180**
Lauritsch, Guenter *see* **Katsevich, Alexander**
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Lockett, S. J. *see* **Ortiz de Solorzano, C. et al.**

Loli Piccolomini, E. *see* **Bertaia, M. et al.**, (**2004h:65007**)
Luke, D. Russell (*with* Potthast, Roland) The no response test—a sampling method for inverse scattering problems. (English summary) **2004g:35231**
Makinouchi, Akifumi *see* **Kubo, Masaaki et al.**, (**2004j:94003**)
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Masnou, Simon *see* **Ambrosio, Luigi**, **2004a:94001** *and* (**2004j:35005**)
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68U15 Text processing; mathematical typography

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68U20 Simulation [see also 65Cxx]

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Bogliolo, Alessandro *see* **Freschi, Valerio, 2004m:68271**
Boitsov, L. M. Using signature hashing for approximate string matching. (English summary) **2004f:68177**
Brunetti, Sara (*with* Daurat, Alain) An algorithm reconstructing convex lattice sets. (English summary) **2004f:68178**
Burkhardt, Stefan (*with* Kärkkäinen, Juha) One-gapped q-gram filters for Levenshtein distance. (English summary)
— (*with* Kärkkäinen, Juha) Better filtering with gapped q-grams. (English summary) **2004k:68175**
Butman, Ayelet *see* **Amir, Amihood et al.**
Chakaravarthy, Venkatesan T. (*with* Krishnamurthy, Rajaesekar) The problem of context sensitive string matching. (English summary)
Chin, Francis Y. L. (*with* De Santis, Alfredo; Ferrara, Anna Lisa; Ho, N. L.; Kim, Sung Kwon) A simple algorithm for the constrained sequence problems. (English summary) **2004m:68270**
Chowdhury, Rezaul Alam *see* **Ahmed, Mustaq et al., 2004d:68172**
Chun, Lu *see* **Yang, Q. X. et al.**
Church, Kenneth W. *see* **Amir, Amihood et al., 2004k:68174**
Cole, Richard (*with* Lewenstein, Moshe) Multidimensional matching and fast search in suffix trees. (English summary) (*see* **2004a:68002**)
— (*with* Hariharan, Ramesh) Faster suffix tree construction with missing suffix links. (English summary) **2004j:68185**
— *see also* **Amir, Amihood et al., 2004m:68269**
Crescenzi, Pierluigi (*with* Del Lungo, Alberto; Grossi, Roberto; Lodi, Elena; Pagli, Linda; Rossi, Gianluca) Text sparsification via local maxima. (English summary) **2004f:68179**
Crochemore, Maxime (*with* Iliopoulos, Costas S.; Lecroq, Thierry; Plandowski, Wojciech; Rytter, Wojciech) Three heuristics for δ-matching: δ-BM algorithms. (English summary)
— (*with* Stefanov, Valeri T.) Waiting time and complexity for matching patterns with automata. (English summary) **2004d:68173**
— (*with* Hancart, Christophe; Lecroq, Thierry) A unifying look at the Apostolico-Giancarlo string-matching algorithm. (English summary) **2004i:68240**
— *see also* **Apostolico, Alberto, (2004b:68001)** *and* **Amir, Amihood et al.**
Curtis, Sharon A. A generic algorithm for minimum chain partitioning. (English summary) (*see* **2004c:68004**)
Dal Palú, A. (*with* Pontelli, Enrico; Ranjan, D.) An optimal algorithm for finding NCA on pure pointer machines. (English summary)
Dar, Emanuel *see* **Amir, Amihood et al., 2004k:68174**
Daurat, Alain *see* **Brunetti, Sara, 2004f:68178**
Del Lungo, Alberto *see* **Crescenzi, Pierluigi et al., 2004f:68179**
Demaine, Erik D. (*with* López-Ortiz, Alejandro) A linear lower bound on index size for text retrieval. (English summary) **2004g:68187**
De Santis, Alfredo *see* **Chin, Francis Y. L. et al., 2004m:68270**
Dogaru, Octavian C. (*with* Dogaru, Roxana) Algorithms on all occurences of a word in a text. (English summary)
Dogaru, Roxana *see* **Dogaru, Octavian C.**
Dulucq, Serge (*with* Touzet, Hélène) Analysis of tree edit distance algorithms. (English summary)
Efrat, Alon *see* **Alt, Helmut et al., 2004i:68238**
Eğecioğlu, Ömer *see* **Arslan, Abdullah N.**
Elemento, Olivier (*with* Gascuel, Olivier) An exact and polynomial distance-based algorithm to reconstruct single copy tandem duplication trees. (English summary)
El-Mabrouk, Nadia (*with* Sankoff, David) The reconstruction of doubled genomes. (English summary) **2004h:68150**
Ferrara, Anna Lisa *see* **Chin, Francis Y. L. et al., 2004m:68270**
Ferraro, Pascal (*with* Godin, Christophe) Optimal mappings with minimum number of connected components in tree-to-tree comparison problems. (English summary) **2004f:68180**
Fredriksson, Kimmo (*with* Navarro, Gonzalo; Ukkonen, Esko) Optimal exact and fast approximate two dimensional pattern matching allowing rotations. (English summary)
— (*with* Navarro, Gonzalo) Average-optimal multiple approximate string matching. (English summary)
— Shift-or string matching with super-alphabets. (English summary) **2004g:68188**
Freschi, Valerio (*with* Bogliolo, Alessandro) Longest common subsequence between run-length-encoded strings: a new algorithm with improved parallelism. (English summary) **2004m:68271**
Fu, Wei (*with* Hon, Wing-Kai; Sung, Wing-Kin) On all-substrings alignment problems. (English summary)
Gabriele, Alessandra (*with* Mignosi, Filippo; Restivo, Antonio; Sciortino, Marinella) Indexing structures for approximate string matching. (English summary) (*see* **2004j:68002**)
Gascuel, Olivier *see* **Elemento, Olivier**
Godin, Christophe *see* **Ferraro, Pascal, 2004f:68180**
Gramm, Jens (*with* Guo, Jiong; Niedermeier, Rolf) Pattern matching for arc-annotated sequences. (English summary) (*see* **2004j:68011**)
Grossi, Roberto (*with* Gupta, Ankur; Vitter, Jeffrey Scott) High-order entropy-compressed test indexes. (English summary) (*see* **2004a:68002**)
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Guo, Jiong *see* **Gramm, Jens et al., (2004j:68011)**
Gupta, Ankur *see* **Grossi, Roberto et al., (2004a:68002)**
Gusev, V. D. (*with* Nemytikova, L. A.) Taking into account repetitions, symmetry, and isomorphism in symbolic sequences: algorithmic aspects. (Russian. Russian summary)
— *see also* **Bakhmutova, I. V. et al.**
Hambrusch, Susanne E. (*with* Liu, Chuan-Ming; Lim, Hyeong-Seok) Clustering in trees: optimizing cluster sizes and number of subtrees. (English summary) **2004g:68189**
Hancart, Christophe *see* **Crochemore, Maxime et al., 2004i:68240**
Hariharan, Ramesh *see* **Cole, Richard, 2004j:68185** *and* **Amir, Amihood et al., 2004m:68269**
Hernández, Manuel (*with* Rosenblueth, David A.) Disjunctive partial deduction of a right-to-left string-matching algorithm. (English summary) **2004f:68181**
Ho, N. L. *see* **Chin, Francis Y. L. et al., 2004m:68270**
Hochberg, Robert A. (*with* Stallmann, Matthias F.) Optimal one-page tree embeddings in linear time. (English summary) **2004e:68117**
Hon, Wing-Kai *see* **Fu, Wei et al.**
Hyyrö, Heikki (*with* Navarro, Gonzalo) Faster bit-parallel approximate string matching. (English summary)
Iliopoulos, Costas S. *see* **Crochemore, Maxime et al.**
Inenaga, Shunsuke (*with* Shinohara, Ayumi; Takeda, Masayuki; Bannai, Hideo; Arikawa, Setsuo) Space-economical construction of index structures for all suffixes of a string. (English summary)

Jansson, Jesper (*with* Lingas, Andrzej) A fast algorithm for optimal alignment between similar ordered trees. (English summary) **2004k:68176**
Kärkkäinen, Juha Computing the threshold for q-gram filters. (English summary)
— (*with* Navarro, Gonzalo; Ukkonen, Esko) Approximate string matching on Ziv-Lempel compressed text. (English summary) **2004j:68186**
— *see also* **Burkhardt, Stefan**, **2004k:68175**
Karpinski, Marek *see* **Berman, Piotr et al.**, **2004b:68180**
Kaykobad, M. *see* **Ahmed, Mustaq et al.**, **2004d:68172**
Kim, Sung Kwon *see* **Chin, Francis Y. L. et al.**, **2004m:68270**
Krishnamurthy, Rajaesekar *see* **Chakaravarthy, Venkatesan T.**
Kuri, Josué (*with* Navarro, Gonzalo; Mé, Ludovic) Fast multipattern search algorithms for intrusion detection. (English summary) **2004k:68177**
Kytöjoki, Jari (*with* Salmela, Leena; Tarhio, Jorma) Tuning string matching for huge pattern sets. (English summary)
Lanctot, J. Kevin (*with* Li, Ming[1]; Ma, Bin; Wang, Shaojiu; Zhang, Louxin) Distinguishing string selection problems. (English summary) **2004i:68241**
Landau, Gad M. (*with* Schieber, Baruch; Ziv-Ukelson, Michal) Sparse LCS common substring alignment. (English summary)
— (*with* Schieber, Baruch; Ziv-Ukelson, Michal) Sparse LCS common substring alignment. (English summary) **2004i:68242**
— *see also* **Amir, Amihood et al.**, **2004i:68239** *and* (**2004a:68002**)
Larmore, Lawrence L. *see* **Berman, Piotr et al.**, **2004b:68180**
Lecroq, Thierry *see* **Crochemore, Maxime et al.**, **2004i:68240** *and* **Lefebvre, Arnaud et al.**
Lefebvre, Arnaud (*with* Lecroq, Thierry; Alexandre, Joël) An improved algorithm for finding longest repeats with a modified factor oracle. (English summary)
Lemström, Kjell (*with* Mäkinen, Veli) On minimizing pattern splitting in multi-track string matching. (English summary)
— (*with* Tarhio, Jorma) Transposition invariant pattern matching for multi-track strings. (English summary) **2004j:68187**
Lewenstein, Moshe *see* **Amir, Amihood et al.**, **2004m:68269** *and* **Cole, Richard**, (**2004a:68002**)
Li, Ming[1] *see* **Lanctot, J. Kevin et al.**, **2004i:68241**
Lim, Hyeong-Seok *see* **Hambrusch, Susanne E. et al.**, **2004g:68189**
Lingas, Andrzej *see* **Jansson, Jesper**, **2004k:68176**
Liu, Chuan-Ming *see* **Hambrusch, Susanne E. et al.**, **2004g:68189**
Liu, Da You[2] (*with* Liu, Ya Bo; Yin, Zhi Dong) Fast algorithm for discovering maximum frequent itemsets of association rules. (Chinese. English and Chinese summaries)
Liu, Ya Bo *see* **Liu, Da You[2] et al.**
Lodi, Elena *see* **Crescenzi, Pierluigi et al.**, **2004f:68179**
López-Ortiz, Alejandro *see* **Demaine, Erik D.**, **2004g:68187**
Ma, Bin (*with* Wang, Zhuozhi; Zhang, Kaizhong) Alignment between two multiple alignments. (English summary)
— *see also* **Lanctot, J. Kevin et al.**, **2004i:68241**
de Macedo Mourelle, Luiza *see* **Nedjah, Nadia**
Mäkinen, Veli (*with* Ukkonen, Esko) Local similarity based point-pattern matching. (English summary)
— (*with* Navarro, Gonzalo; Ukkonen, Esko) Algorithms for transposition invariant string matching (extended abstract). (English summary)
— Compact suffix array—a space-efficient full-text index. (English summary) **2004k:68178**
— *see also* **Lemström, Kjell**
Mé, Ludovic *see* **Kuri, Josué et al.**, **2004k:68177**
Mignosi, Filippo *see* **Gabriele, Alessandra et al.**, (**2004j:68002**)
Muthukrishnan, S. Muthu (*with* Şahinalp, Süleyman Cenk) Simple and practical sequence nearest neighbors with block operations. (English summary)
Navarro, Gonzalo *see* **Kärkkäinen, Juha et al.**, **2004j:68186**; **Kuri, Josué et al.**, **2004k:68177**; **Fredriksson, Kimmo et al.**; **Hyyrö, Heikki** *and* **Mäkinen, Veli et al.**
Nedjah, Nadia (*with* de Macedo Mourelle, Luiza) More efficient left-to-right pattern matching in non-sequential equational programs. (English summary)
Nemytikova, L. A. *see* **Gusev, V. D.**
Niedermeier, Rolf *see* **Gramm, Jens et al.**, (**2004j:68011**)
Nishizeki, Takao *see* **Zhou, Xiao**, **2004m:68273**
Nivasch, Gabriel Cycle detection using a stack. (English summary) **2004m:68272**
Ohlebusch, Enno *see* **Abouelhoda, Mohamed Ibrahim**
de Oliveira, E. T. G. *see* **Walter, Maria Emilia M. T.**, **2004e:68118**
Pagli, Linda *see* **Crescenzi, Pierluigi et al.**, **2004f:68179**
Pelfrêne, Johann (*with* Abdeddaïm, Saïd; Alexandre, Joël) Extracting approximate patterns (extended abstract). (English summary)
Peng, Sun *see* **Yang, Q. X. et al.**
Plandowski, Wojciech *see* **Berman, Piotr et al.**, **2004b:68180** *and* **Crochemore, Maxime et al.**
Pontelli, Enrico *see* **Dal Palú, A. et al.**
Porat, Ely *see* **Amir, Amihood et al.**, **2004m:68269**
Ranjan, D. *see* **Dal Palú, A. et al.**
Restivo, Antonio *see* **Gabriele, Alessandra et al.**, (**2004j:68002**)
Rosenblueth, David A. *see* **Hernández, Manuel**, **2004f:68181**
Rossi, Gianluca *see* **Crescenzi, Pierluigi et al.**, **2004f:68179**
Rote, Günter *see* **Alt, Helmut et al.**, **2004i:68238**
Rytter, Wojciech On maximal suffixes and constant-space linear-time versions of KMP algorithm. (English summary) **2004c:68156**
— *see also* **Berman, Piotr et al.**, **2004b:68180** *and* **Crochemore, Maxime et al.**
Şahinalp, Süleyman Cenk *see* **Muthukrishnan, S. Muthu**
Salmela, Leena *see* **Kytöjoki, Jari et al.**
Sankoff, David *see* **El-Mabrouk, Nadia**, **2004h:68150**
Satta, Giorgio *see* **Amir, Amihood et al.**, **2004i:68239**
Schaps, Mary E. *see* **Amir, Amihood et al.**
Schieber, Baruch *see* **Landau, Gad M. et al.**, **2004i:68242**
Sciortino, Marinella *see* **Gabriele, Alessandra et al.**, (**2004j:68002**)
Shapira, Dana (*with* Storer, James A.) Edit distance with move operations. (English summary)
Shinohara, Ayumi *see* **Inenaga, Shunsuke et al.**
Sokol, Dina *see* **Amir, Amihood et al.**, (**2004a:68002**)
Stallmann, Matthias F. *see* **Hochberg, Robert A.**, **2004e:68117**
Stefanov, Valeri T. *see* **Crochemore, Maxime**, **2004d:68173**
Steyaert, Jean-Marc *see* **Behzadi, Behshad**
Storer, James A. *see* **Shapira, Dana**
Sung, Wing-Kin *see* **Fu, Wei et al.**
Takeda, Masayuki *see* **Inenaga, Shunsuke et al.**
Tarhio, Jorma *see* **Lemström, Kjell**, **2004j:68187** *and* **Kytöjoki, Jari et al.**
Titkova, T. N. *see* **Bakhmutova, I. V. et al.**
Touzet, Hélène *see* **Dulucq, Serge**
Tsui, Ta-Shan *see* **Yeh, Yi-Shiung**
Ukkonen, Esko *see* **Kärkkäinen, Juha et al.**, **2004j:68186**; **Mäkinen, Veli et al.** *and* **Fredriksson, Kimmo et al.**
Vitter, Jeffrey Scott *see* **Grossi, Roberto et al.**, (**2004a:68002**)
Walter, Maria Emilia M. T. (*with* de Oliveira, E. T. G.) Extension of the Bafna-Pevzner theory for the transposition sorting problem. (Portuguese. English and Portuguese summaries) **2004e:68118**
Wang, Shaojiu *see* **Lanctot, J. Kevin et al.**, **2004i:68241**
Wang, Zhuozhi *see* **Ma, Bin et al.**
Watson, Bruce W. (*with* Watson, Richard E.) A Boyer-Moore-style algorithm for regular expression pattern matching. (English summary) **2004i:68243**
— A new regular grammar pattern matching algorithm. (English summary) **2004d:68174**
Watson, Richard E. *see* **Watson, Bruce W.**, **2004i:68243**
Wenk, Carola Applying an edit distance to the matching of tree ring sequences in dendrochronology. (English summary) **2004i:68244**
— *see also* **Alt, Helmut et al.**, **2004i:68238**
Yamaguchi, Kazunori[1] *see* **Yamamoto, Atsushi**
Yamamoto, Atsushi (*with* Yamaguchi, Kazunori[1]) "Regular expression function" for extending regular expressions and its application to pattern matching. (Japanese. English and Japanese summaries)
Yang, Q. X. (*with* Yuan, S. S.; Zhao, Li[2]; Chun, Lu; Peng, Sun) Faster algorithm of string comparison. (English summary)
Yeh, Yi-Shiung (*with* Tsui, Ta-Shan) A concurrent multi-string matching from multi-text algorithm based on the algorithm of Hamiltonian path problem and DNA computation. (English summary)
Yin, Zhi Dong *see* **Liu, Da You[2] et al.**
Yuan, S. S. *see* **Yang, Q. X. et al.**
Zhang, Kaizhong *see* **Ma, Bin et al.**
Zhang, Louxin *see* **Lanctot, J. Kevin et al.**, **2004i:68241**
Zhao, Li[2] *see* **Yang, Q. X. et al.**
Zhou, Xiao (*with* Nishizeki, Takao) Multicolorings of series-parallel graphs. (English summary) **2004m:68273**
Ziv-Ukelson, Michal *see* **Landau, Gad M. et al.**, **2004i:68242**

Items with secondary classifications in 68W05

Abdeddaïm, Saïd Algorithms and experiments on transitive closure, path cover and multiple sequence alignment. (English summary) **2004m:68296**
Alzoubi, Khaled M. *see* **Wan, Peng-Jun et al.**, **2004b:05195**
Andoni, A. (*with* Deza, Michel-Marie; Gupta, Ajay K.; Indyk, Piotr; Raskhodnikova, S.) Lower bounds for embedding edit distance into normed spaces. (English summary) (*see* **2004a:68002**)
Arikawa, Setsuo *see* **Kida, Takuya et al.**, **2004d:68033** *and* **Inenaga, Shunsuke et al.**
Ayala-Rincón, Mauricio (*with* Conejo, Paulo D.) A linear time lower bound on McCreight and general updating algorithms for suffix trees. (English summary) **2004f:68023**
Bădoiu, Mihai Approximation algorithm for embedding metrics into a two-dimensional space. (English summary) (*see* **2004a:68002**)
Bartal, Yair (*with* Mendel, Manor) Multi-embedding and path approximation of metric spaces. (English summary) (*see* **2004a:68002**)
Benczúr, András A. Pushdown-reduce: an algorithm for connectivity augmentation and poset covering problems. (English summary) **2004g:90089**
Berry, Anne (*with* Blair, Jean R. S.; Heggernes, Pinar; Peyton, Barry W.) Maximum cardinality search for computing minimal triangulations of graphs. (English summary) **2004m:68189**
Bespamyatnikh, Sergei (*with* Kelarev, Andrei) Algorithms for shortest paths and d-cycle problems. (English summary) **2004j:05113**
Blair, Jean R. S. *see* **Berry, Anne et al.**, **2004m:68189**
Bonizzoni, Paola (*with* Della Vedova, Gianluca; Dondi, Riccardo) Reconciling gene trees to a species tree. (English summary) (*see* **2004j:68002**)
Brandstädt, Andreas (*with* Le, Van Bang; de Ridder, H. N.) Efficient robust algorithms for the maximum weight stable set problem in chair-free graph classes. (English summary) **2004m:05251**
Breimer, Eric A. (*with* Goldberg, Mark K.; Lim, Darren T.) A learning algorithm for the longest common subsequence problem. (English summary) **2004m:68201**
Brinkmann, Gunnar (*with* McKay, Brendan D.; von Nathusius, Ulrike) Backtrack search and look-ahead for the construction of planar cubic graphs with restricted face sizes. (English summary) **2004f:05169**
Brodal, Gerth Stølting (*with* Lyngsø, Rune B.; Östlin, Anna; Pedersen, Christian N. S.) Solving the string statistics problem in time $\mathcal{O}(n \log n)$. (English summary)
Bryant, David Optimal agreement supertrees. (English summary) (*see* **2004j:92001**)
Burkhardt, Stefan (*with* Kärkkäinen, Juha) Fast lightweight suffix array construction and checking. (English summary)
Cai, Yan Guang (*with* Zhang, Xin Zheng; Qian, Ji Xin; Sun, You Xian) An $O(n)$ algorithm for ω-path partition of edge-weighted forests. (Chinese. English and Chinese summaries) **2004d:68110**
Chan, Wun-Tat (*with* Chin, Francis Y. L.; Ting, Hing-Fung) Escaping a grid by edge-disjoint paths. (English summary) **2004d:05183**
Chang, Gerard J. *see* **Liao, Chung-Shou**, **2004c:05143**
Chang, Maw-Shang *see* **Hung, Ruo-Wei et al.**, **2004k:05191**
Chen, Duhong (*with* Diao, Lixia; Eulenstein, O.; Fernández-Baca, David; Sanderson, Michael J.) Flipping: a supertree construction method. (English summary) **2004f:92018**
Chen, Zhi-Zhong *see* **Lin, Guo-Hui et al.**

Chin, Francis Y. L. *see* **Chan, Wun-Tat et al., 2004d:05183**
Choi, Kwok Pui (*with* Zhang, Louxin) Sensitivity analysis and efficient method for identifying optimal spaced seeds. (English summary) **2004k:92030**
Cieliebak, Mark (*with* Erlebach, Thomas; Lipták, Zsuzsanna; Stoye, Jens; Welzl, Emo) Algorithmic complexity of protein identification: combinatorics of weighted strings. (English summary) **2004m:92039**
Cole, Richard (*with* Hariharan, Ramesh) Tree pattern matching to subset matching in linear time. (English summary) **2004i:68078**
Conejo, Paulo D. *see* **Ayala-Rincón, Mauricio, 2004f:68023**
Conforti, Michele (*with* Cornuéjols, Gérard; Kapoor, Ajai; Vušković, Kristina) Even-hole-free graphs. II. Recognition algorithm. (English summary) **2004e:05182**
Cornuéjols, Gérard *see* **Conforti, Michele et al., 2004e:05182**
Crochemore, Maxime (*with* Landau, Gad M.; Ziv-Ukelson, Michal) A subquadratic sequence alignment algorithm for unrestricted scoring matrices. (English summary) **2004m:68040**
Das, Sajal K. *see* **Panda, B. S., 2004d:05190**
Della Vedova, Gianluca *see* **Bonizzoni, Paola et al., (2004j:68002)**
Demetrescu, Camil (*with* Italiano, Giuseppe F.) Improved bounds and new trade-offs for dynamic all pairs shortest paths. (English summary)
Deng, Xiao-Tie (*with* Li, Guo Jun[1]; Li, Zimao; Ma, Bin; Wang, Lusheng) A PTAS for distinguishing (sub)string selection. (English summary)
— (*with* Li, Guo Jun[1]; Wang, Lusheng) Center and distinguisher for strings with unbounded alphabet. (English summary) **2004b:68198**
Desreux, Sébastien An algorithm to generate exactly once every tiling with lozenges of a domain. (English summary) **2004g:05042**
Deza, Michel-Marie *see* **Andoni, A. et al., (2004a:68002)**
Diao, Lixia *see* **Chen, Duhong et al., 2004f:92018**
Di Battista, Giuseppe (*with* Patrignani, Maurizio; Vargiu, Francesco) A split&push approach to 3D orthogonal drawing. (English summary) **2004f:68113**
Diks, Krzysztof (*with* Fraigniaud, Pierre; Kranakis, Evangelos; Pelc, Andrzej) Tree exploration with little memory. (English summary) **2004m:68244**
Dogaru, Octavian C. *see* **Dogaru, Roxana, 2004i:68254**
Dogaru, Roxana (*with* Dogaru, Octavian C.) On some straight string search algorithms. (English summary) **2004i:68254**
Dondi, Riccardo *see* **Bonizzoni, Paola et al., (2004j:68002)**
Duncan, Christian A. (*with* Goodrich, Michael T.; Kobourov, Stephen G.) Balanced aspect ratio trees and their use for drawing large graphs. (English summary) **2004f:68114**
Duncan, Rob (*with* Qian, Jianbo; Vigneron, Antoine; Zhu, Binhai) Polynomial time algorithms for three-label point labeling. (English summary) **2004b:68163**
Erlebach, Thomas *see* **Cieliebak, Mark et al., 2004m:92039**
Eschen, Elaine M. (*with* Johnson, Julie L.; Spinrad, Jeremy P.; Sritharan, R.) Recognition of some perfectly orderable graph classes. (English summary) **2004d:68115**
Eulenstein, O. *see* **Chen, Duhong et al., 2004f:92018**
Evans, Patricia A. (*with* Smith, Andrew David; Wareham, H. Todd) On the complexity of finding common approximate substrings. (English summary) **2004g:68059**
Fakotakis, Nikos D. *see* **Sgarbas, Kyriakos N. et al., 2004d:68022**
Fernández-Baca, David *see* **Chen, Duhong et al., 2004f:92018** *and* **Sun, Fangting et al.**
Ferragina, Paolo (*with* Koudas, Nick; Muthukrishnan, S. Muthu; Srivastava, Divesh) Two-dimensional substring indexing. (English summary) **2004i:68041**
Fraigniaud, Pierre *see* **Diks, Krzysztof et al., 2004m:68244**
Franěk, František (*with* Jiang, Jiandong; Lu, Weilin; Smyth, William F.) Two-pattern strings. (English summary)
Frieder, Ophir *see* **Wan, Peng-Jun et al., 2004b:05195**
Frigioni, Daniele (*with* Marchetti-Spaccamela, Alberto; Nanni, Umberto) Fully dynamic shortest paths in digraphs with arbitrary arc weights. (English summary) **2004j:05116**
Gascuel, Olivier *see* **Ranwez, Vincent, (2004j:92001)**
Georgiadis, Leonidas Arborescence optimization problems solvable by Edmonds' algorithm. (English summary) **2004c:05188**
Goldberg, Mark K. *see* **Breimer, Eric A. et al., 2004m:68201**
Goldman, Sally A. (*with* Scott, Stephen D.) Multiple-instance learning of real-valued geometric patterns. (English summary) **2004j:68086**
Goodrich, Michael T. *see* **Duncan, Christian A. et al., 2004f:68114**
Guéguen, Laurent Segmentation by maximal predictive partitioning according to composition biases. (English summary) (*see* **2004j:92001**)
Gupta, Ajay K. *see* **Andoni, A. et al., (2004a:68002)**
Hariharan, Ramesh *see* **Cole, Richard, 2004i:68078**
Hasan, Masud (*with* Rahman, Md. Saidur; Nishizeki, Takao) A linear algorithm for compact box-drawings of trees. (English summary)
Heggernes, Pinar *see* **Berry, Anne et al., 2004m:68189**
Hella, Lauri *see* **Lemström, Kjell, 2004i:68072**
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Orozco, Edusmildo *see* **Moreno, Oscar et al., 2004a:94036**

Pal, Madhumangal *see* **Hota, Mrinmoy et al., 2004j:68143**

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Samet, Hanan *see* **Hoel, Erik G.**
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Saxena, Sanjeev *see* **Sajith, G.**, **2004m:05113**
Schuierer, Sven *see* **López-Ortiz, Alejandro**, **2004i:68220**
Shi, Tao *see* **Lu, Lin Sheng et al.**
Silvestri, Riccardo *see* **De Agostino, Sergio**, **2004a:68043**
Skulrattanakulchai, San *see* **Gabow, Harold N.**
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Speranza, Maria Grazia *see* **Angelelli, Enrico et al.**, **2004i:90031**
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68W15 Distributed algorithms

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Chlebus, Bogdan S. (*with* Gołąb, Karol; Kowalski, Dariusz R.) Broadcasting spanning forests on a multiple-access channel. (English summary) **2004i:68246**
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Ghosh, Ratan K. *see* **Srivastava, Saurabh**, **2004h:68151**
Godard, Emmanuel (*with* Métivier, Yves) Deducible and equivalent structural knowledges in distributed algorithms. (English summary) **2004m:68277**
Gołąb, Karol *see* **Chlebus, Bogdan S. et al.**, **2004i:68246**
Guerraoui, Rachid *see* **Dutta, Partha et al.**
Hedetniemi, Stephen T. (*with* Jacobs, David P.; Srimani, Pradip K.) Linear time self-stabilizing colorings. (English summary) **2004f:68185**
Jacobs, David P. *see* **Hedetniemi, Stephen T. et al.**, **2004f:68185**
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Kshemkalyani, Ajay D. *see* **Chandra, Punit**, **2004f:68184**
Kuo, Sy-Yen *see* **Wei, David S. L. et al.**, **2004j:68190**
Manabe, Yoshifumi (*with* Tajima, Naka) (h, k)-arbiters for h-out-of-k mutual exclusion problem. (English summary) **2004j:68189**
Mayer, Alain (*with* Ostrovsky, Rafail; Ofek, Yoram; Yung, Moti) Self-stabilizing symmetry breaking in constant space. (English summary) **2004g:68191**
Métivier, Yves *see* **Godard, Emmanuel**, **2004m:68277**
Naik, Kshirasagar *see* **Wei, David S. L. et al.**, **2004j:68190**
Ofek, Yoram *see* **Mayer, Alain et al.**, **2004g:68191**
Ostrovsky, Rafail *see* **Mayer, Alain et al.**, **2004g:68191**
Pochon, Bastian *see* **Dutta, Partha et al.**
Rajasekaran, Sanguthevar *see* **Wei, David S. L. et al.**, **2004j:68190**
Ranade, Abhiram G. The delay sequence argument. (English summary) **2004a:68160**
Roncato, Alessandro *see* **Flocchini, Paola et al.**, **2004j:68188**
Santoro, Nicola *see* **Flocchini, Paola et al.**, **2004j:68188**
Srimani, Pradip K. *see* **Hedetniemi, Stephen T. et al.**, **2004f:68185**
Srivastava, Saurabh (*with* Ghosh, Ratan K.) Distributed algorithms for finding and maintaining a k-tree core in a dynamic network. (English summary) **2004h:68151**
Tajima, Naka *see* **Manabe, Yoshifumi**, **2004j:68189**
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Yung, Moti *see* **Mayer, Alain et al.**, **2004g:68191**

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Bos, André *see* **de Weerdt, Mathijs et al.**, **2004b:68146**
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Csirik, János A. *see* **Balogh, József et al.**, **2004h:68033**
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Fraigniaud, Pierre *see* **Barrière, Lali et al.**, (**2004a:68002**)
Frieder, Ophir *see* **Alzoubi, Khaled M. et al.**, **2004c:68105** *and* **Wang, Yu[3] et al.**, **2004d:68126**
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Hartline, Jason D. *see* **Goldberg, Andrew V.**, (**2004a:68002**)
Harvey, Nicholas J. A. (*with* Munro, J. Ian) Deterministic SkipNet. (English summary) **2004m:68028**
Ishai, Yuval *see* **Balogh, József et al.**, **2004h:68033**
Keidar, Idit (*with* Khazan, Roger) A virtually synchronous group multicast algorithm for WANs: formal approach. (English summary) **2004a:68007**
Khazan, Roger *see* **Keidar, Idit**, **2004a:68007**
Kushilevitz, Eyal *see* **Balogh, József et al.**, **2004h:68033**
Li, Xiang-Yang *see* **Wang, Yu[3] et al.**, **2004d:68126**
Malbos, Philippe *see* **Gruau, Frédéric**, (**2004j:68023**)
Mei, Alessandro *see* **Dubhashi, Devdatt et al.**, (**2004a:68002**)
Mohalik, Swarup (*with* Ramanujam, Ramaswamy) Distributed automata in an assumption-commitment framework. (English summary) **2004f:68099**
Moran, Shlomo *see* **Dinitz, Yefim et al.**, **2004m:68010**
Moses, Yoram (*with* Rajsbaum, Sergio) A layered analysis of consensus. (English summary) **2004e:68011**
Munro, J. Ian *see* **Harvey, Nicholas J. A.**, **2004m:68028**
Nanni, Umberto *see* **Cicerone, Serafino et al.**, **2004d:68113**
Narayanan, Lata *see* **Barrière, Lali et al.**, (**2004a:68002**)
Opatrny, Jaroslav *see* **Barrière, Lali et al.**, (**2004a:68002**)
Panconesi, Alessandro *see* **Dubhashi, Devdatt et al.**, (**2004a:68002**)
Radhakrishnan, Jaikumar *see* **Dubhashi, Devdatt et al.**, (**2004a:68002**)
Rajsbaum, Sergio *see* **Moses, Yoram**, **2004e:68011** *and* **Dinitz, Yefim et al.**, **2004m:68010**
Ramanujam, Ramaswamy *see* **Mohalik, Swarup**, **2004f:68099**
Shachnai, Hadas *see* **Attiya, Hagit**, **2004m:68278**
Shvartsman, Alex A. *see* **Georgiou, Chryssis**, **2004m:68011**
Srinivasan, Aravind *see* **Dubhashi, Devdatt et al.**, (**2004a:68002**)
Tonino, Hans *see* **de Weerdt, Mathijs et al.**, **2004b:68146**
Tseng, Yuh-Min A cryptographic key assignment scheme for access control in a hierarchy with exceptions. (English summary)
Tsin, Y. H. On finding an ear decomposition of an undirected graph distributively. (English summary)
Vigna, Sebastiano *see* **Boldi, Paolo**, **2004a:68006** *and* **2004k:68131**

Wan, Peng-Jun *see* **Alzoubi, Khaled M. et al., 2004c:68105**
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de Weerdt, Mathijs (*with* Bos, André; Tonino, Hans; Witteveen, Cees) A resource logic for multi-agent plan merging. (English summary) **2004b:68146**
Witteveen, Cees *see* **de Weerdt, Mathijs et al., 2004b:68146**

68W20 Randomized algorithms

Agarwal, Pankaj K. (*with* Sen, Sandeep) Randomized algorithms for geometric optimization problems. (English summary) **2004b:68182**
Alon, Noga (*with* Goldreich, Oded; Mansour, Yishay) Almost k-wise independence versus k-wise independence. (English summary) **2004g:68192**
Attiya, Hagit (*with* Shachnai, Hadas) Tight bounds for FEC-based reliable multicast. (English summary) **2004m:68278**
Bach, Eric *see* **Cai, Jin-Yi, 2004m:68279**
Bohlin, Robert (*with* Kavraki, Lydia E.) A randomized approach to robot path planning based on lazy evaluation. (English summary) **2004a:68161**
Cai, Jin-Yi (*with* Bach, Eric) On testing for zero polynomials by a set of points with bounded precision. (English summary) **2004m:68279**
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Chien, Steve (*with* Rasmussen, Lars; Sinclair, Alistair) Clifford algebras and approximating the permanent. (English summary) **2004m:68280**
Deng, Xiao-Tie Randomized geometry algorithms for coarse grained parallel computers. (English summary) **2004b:68183**
Dodis, Yevgeniy New imperfect random source with applications to coin-flipping. (English summary)
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Fernandez de la Vega, Wenceslao (*with* Kenyon, Claire) A randomized approximation scheme for metric MAX-CUT. (English summary) **2004j:68191**
Goldreich, Oded *see* **Alon, Noga et al., 2004g:68192**
Hirsch, Edward A. Worst-case study of local search for MAX-k-SAT. (English summary) **2004k:68181**
Kannan, Sampath *see* **Feigenbaum, Joan et al., 2004a:68162**
Karlin, Anna R. (*with* Kenyon, Claire; Randall, Dana) Dynamic TCP acknowledgment and other stories about $e/(e-1)$. (English summary) **2004e:68120**
Katajainen, Jyrki (*with* Pasanen, Tomi A.) A randomized in-place algorithm for positioning the kth element in a multiset. (English summary)
Kavraki, Lydia E. *see* **Bohlin, Robert, 2004a:68161**
Kenyon, Claire *see* **Karlin, Anna R. et al., 2004e:68120** *and* **Fernandez de la Vega, Wenceslao, 2004j:68191**
Kreinovich, Vladik (*with* Trejo, Raúl) Error estimations for indirect measurements: randomized vs. deterministic algorithms for "black-box" programs. (English summary) **2004b:68185**
Mans, Bernard *see* **Duckworth, William, (2004j:68002)**
Mansour, Yishay *see* **Alon, Noga et al., 2004g:68192**
Matias, Yossi (*with* Vitter, Jeffrey Scott; Ni, Wen-Chun) Dynamic generation of discrete random variates. (English summary) **2004d:68178**
Métivier, Yves (*with* Saheb, Nasser; Zemmari, Akka) Analysis of a randomized rendezvous algorithm. (English summary) **2004e:68121**
Ni, Wen-Chun *see* **Matias, Yossi et al., 2004d:68178**
Ollivier, Yann Rate of convergence of crossover operators. (English summary) **2004g:68193**
Pasanen, Tomi A. *see* **Katajainen, Jyrki**
Randall, Dana *see* **Karlin, Anna R. et al., 2004e:68120**
Rao, Nageswara S. V. Probabilistic quickest path algorithm. (English summary) **2004j:68192**
Rasmussen, Lars *see* **Chien, Steve et al., 2004m:68280**
Rubinfeld, Ronitt *see* **Chazelle, Bernard et al.**
Saheb, Nasser *see* **Métivier, Yves et al., 2004e:68121**
Seiden, Steven S. Barely random algorithms for multiprocessor scheduling. (English summary) **2004j:68193**
Sen, Sandeep *see* **Agarwal, Pankaj K., 2004b:68182** *and* **Dubhashi, Devdatt, 2004b:68184**
Shachnai, Hadas *see* **Attiya, Hagit, 2004m:68278**
Simonovits, Miklós How to compute the volume in high dimension? (English summary) **2004j:68194**
Sinclair, Alistair *see* **Chien, Steve et al., 2004m:68280**
Strauss, Martin Joel *see* **Feigenbaum, Joan et al., 2004a:68162**
Trejo, Raúl *see* **Kreinovich, Vladik, 2004b:68185**
Trevisan, Luca *see* **Chazelle, Bernard et al.**
Viswanathan, Mahesh *see* **Feigenbaum, Joan et al., 2004a:68162**
Vitter, Jeffrey Scott *see* **Matias, Yossi et al., 2004d:68178**
Zemmari, Akka *see* **Métivier, Yves et al., 2004e:68121**

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Alon, Noga (*with* Dar, Seannie; Parnas, Michal; Ron, Dana) Testing of clustering. (English summary) **2004h:68052**
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Bader, David A. An improved randomized selection algorithm with an experimental study. (English summary) **2004j:68201**
Bals, Helge *see* **Albers, Susanne, (2004a:68002)**
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Bohman, Tom (*with* Frieze, Alan) Arc-disjoint paths in expander digraphs. (English summary) **2004d:68109**
Bollig, Beate (*with* Wegener, Ingo) Functions that have read-once branching programs of quadratic size are not necessarily testable. (English summary) **2004d:68037**
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Chakrabarti, Amit (*with* Khot, Subhash) Improved lower bounds on the randomized complexity of graph properties. (English summary)
Chandran, L. Sunil A lower bound for the hitting set size for combinatorial rectangles and an application. (English summary) **2004a:68113**
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Chockler, Hana (*with* Kupferman, Orna) ω-regular languages are testable with a constant number of queries. (English summary) (*see* **2004j:68019**)
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Condon, Anne E. Bounded error probabilistic finite state automata. **2004c:68069**
Dar, Seannie *see* **Alon, Noga et al., 2004h:68052**
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Dukes, Peter (*with* Ling, Alan C. H.) A combinatorial error bound for t-point-based sampling. (English summary) **2004j:05034**
Dwork, Cynthia *see* **Dolev, Danny et al.**
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Frederiksen, Jens S. (*with* Larsen, Kim S.) Packet bundling. (English summary)
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Frieze, Alan *see* **Bohman, Tom, 2004d:68109**
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Gao, Jie[1] (*with* Guibas, Leonidas J.; Hershberger, John; Zhang, Li[6]; Zhu, An) Discrete mobile centers. (English summary) **2004f:68166**
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Gehring, Wolfgang (*with* Salamon, Peter; Whitney, Roger E.; Sibani, Paolo) Correlation structure of landscapes of NP-complete optimization problems at finite temperatures. (English summary)
Gerbessiotis, Alexandros V. (*with* Siniolakis, Constantinos J.) Randomized selection in $n + C + o(n)$ comparisons. (English summary) **2004h:68026**
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Goldreich, Oded Property testing in massive graphs. (English summary) **2004d:05184**
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Goodrich, Michael T. (*with* Tamassia, Roberto) Simplified analyses of randomized algorithms for searching, sorting, and selection. (English summary) **2004a:68015**
Gritzmann, Peter *see* **Brieden, Andreas et al., 2004f:52012**
Guibas, Leonidas J. *see* **Gao, Jie[1] et al., 2004f:68166**
Gupta, Anupam (*with* Zane, Francis X.) Counting inversions in lists. (English summary) (*see* **2004a:68002**)
Halperin, Dan *see* **Ezra, Eti et al., 2004m:68258**
Hariharan, Ramesh *see* **Cole, Richard, 2004j:68185**
Hayes, Thomas P. (*with* Kutin, Samuel; van Melkebeek, Dieter) The quantum black-box complexity of majority. (English summary) **2004j:81037**
He, Jun (*with* Yao, Xin) Towards an analytic framework for analysing the computation time of evolutionary algorithms. (English summary) **2004c:68169**
Heinrich-Litan, Laura *see* **Braß, Peter et al., 2004h:52016**

Hershberger, John *see* **Gao, Jie[1] et al., 2004f:68166**
Hromkovič, Juraj Communication protocols—an exemplary study of the power of randomness. (English summary) **2004b:68058**
— (*with* Schnitger, Georg) On the power of randomized pushdown automata. (English summary) **2004b:68092**
Hunsaker, Brady (*with* Kleywegt, Anton J.; Savelsbergh, Martin W. P.; Tovey, Craig A.) Optimal online algorithms for minimax resource scheduling. (English summary) **2004k:68069**
Hurd, Joe Verification of the Miller-Rabin probabilistic primality test. (English summary) **2004h:11110**
Igel, Christian (*with* Toussaint, Marc) On classes of functions for which No Free Lunch results hold. **2004c:68053**
Impagliazzo, Russell Hardness as randomness: a survey of universal derandomization. (English summary) **2004a:68030**
Iwama, Kazuo *see* **Amano, Masami et al., 2004m:68044**
Kallahalla, Mahesh (*with* Varman, Peter J.) Analysis of simple randomized buffer management for parallel I/O. (English summary)
Kalyanasundaram, Bala (*with* Pruhs, Kirk R.) Maximizing job completions online. (English summary) **2004k:68021**
Kannan, Ravindran *see* **Brieden, Andreas et al., 2004f:52012**
Kannan, Sampath (*with* Khanna, Sanjeev) Selection with monotone comparison costs. (English summary) (*see* **2004a:68002**)
Karger, David R. Randomization in graph optimization problems: a survey. (English summary) **2004c:05192**
Karpinski, Marek *see* **Berman, Piotr et al., 2004b:68180**
Khanna, Sanjeev *see* **Kannan, Sampath, (2004a:68002)**
Khot, Subhash *see* **Chakrabarti, Amit**
King, Valerie (*with* Sagert, Garry) A fully dynamic algorithm for maintaining the transitive closure. (English summary) **2004c:68109**
Klee, Victor *see* **Brieden, Andreas et al., 2004f:52012**
Kleywegt, Anton J. *see* **Hunsaker, Brady et al., 2004k:68069**
Korn, Flip *see* **Chen, Zhiyuan et al., 2004d:68026**
Kortsarz, Guy *see* **Even, Guy et al.**
Koudas, Nick *see* **Chen, Zhiyuan et al., 2004d:68026**
Kowalski, Dariusz R. *see* **Chlebus, Bogdan S. et al., 2004i:68246** *and* **2004j:68037**
Krizanc, Danny (*with* Rajasekaran, Sanguthevar) Random sampling: sorting and selection. (English summary) **2004b:68033**
Krumke, Sven Oliver (*with* de Paepe, Willem E.; Poensgen, Diana; Stougie, Leen) News from the online traveling repairman. (English summary) **2004c:68170**
Kumar, S. Ravi (*with* Sivakumar, D.) On polynomial-factor approximations to the shortest lattice vector length. (English summary) **2004i:68086**
Kupferman, Orna *see* **Chockler, Hana, (2004j:68019)**
Kutin, Samuel *see* **Hayes, Thomas P. et al., 2004j:81037**
Larmore, Lawrence L. *see* **Berman, Piotr et al., 2004b:68180**
Larsen, Kim S. *see* **Frederiksen, Jens S. et al., 2004f:68192**
Ling, Alan C. H. *see* **Dukes, Peter, 2004j:05034**
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Lovász, László *see* **Brieden, Andreas et al., 2004f:52012**
Marx, Dániel List edge multicoloring in graphs with few cycles. (English summary) **2004i:05055**
Maymin, Philip Programming complex systems. (English summary) (*see* **2004i:00015**)
van Melkebeek, Dieter *see* **Hayes, Thomas P. et al., 2004j:81037**
Miltersen, Peter Bro Derandomizing complexity classes. **2004c:68043**
Mitzenmacher, Michael (*with* Richa, Andréa W.; Sitaraman, Ramesh) The power of two random choices: a survey of techniques and results. **2004c:68171**
Morin, Pat *see* **Braß, Peter et al., 2004h:52016**
Motwani, Rajeev *see* **Feder, Tomás, 2004f:68045**
Mourrain, Bernard (*with* Pan, Victor Y.; Ruatta, O.) Accelerated solution of multivariate polynomial systems of equations. (English summary) **2004b:65072**
Mubarakzyanov, R. G. On the capabilities of probabilistic binary programs. (Russian. Russian summary) (*see* **2004c:00008**)
Muthukrishnan, S. Muthu *see* **Chen, Zhiyuan et al., 2004d:68026**
Naor, Moni *see* **Dolev, Danny et al.**
Noga, John *see* **Frederiksen, Jens S. et al., 2004f:68192** *and* **Epstein, Leah et al., 2004f:90063**
de Paepe, Willem E. *see* **Krumke, Sven Oliver et al., 2004c:68170**
Pan, Victor Y. *see* **Mourrain, Bernard et al., 2004b:65072**
Parnas, Michal (*with* Ron, Dana; Rubinfeld, Ronitt) On testing convexity and submodularity. (English summary) **2004m:68098**
— (*with* Ron, Dana; Samorodnitsky, Alex) Testing basic Boolean formulae. (English summary) **2004b:68068**
— (*with* Ron, Dana) Testing metric properties. (English summary) **2004m:68099**
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— *see also* **Alon, Noga et al., 2004h:68052**
Plandowski, Wojciech *see* **Berman, Piotr et al., 2004b:68180**
Poensgen, Diana *see* **Krumke, Sven Oliver et al., 2004c:68170**
Prabhakaran, Manoj *see* **Liu, Ding[1]**
Pruhs, Kirk R. *see* **Kalyanasundaram, Bala, 2004k:68021**
Rajasekaran, Sanguthevar *see* **Krizanc, Danny, 2004b:68033**
Ranade, Abhiram G. The delay sequence argument. (English summary) **2004a:68160**
Raymond H.P., Rudy *see* **Amano, Masami et al., 2004m:68044**
Raz, Ran (*with* Reingold, Omer; Vadhan, Salil) Extracting all the randomness and reducing the error in Trevisan's extractors. (English summary) **2004f:68031**
Reingold, Omer *see* **Raz, Ran et al., 2004f:68031**
Richa, Andréa W. *see* **Mitzenmacher, Michael et al., 2004c:68171**
Richardson, Daniel (*with* Elsonbaty, Ahmed) Use of algebraically independent numbers for zero recognition of polynomial terms. (English summary) **2004f:68190**
(Rolim, José D. P.) *see* **Randomization and approximation techniques in computer science, 2004j:68019**
Ron, Dana Property testing. **2004c:68161**
— *see also* **Parnas, Michal et al., 2004b:68068; 2004h:68159; 2004m:68098; 2004m:68099** *and* **Alon, Noga et al., 2004h:68052**
Ruatta, O. *see* **Mourrain, Bernard et al., 2004b:65072**
Rubinfeld, Ronitt *see* **Parnas, Michal et al., 2004h:68159** *and* **2004m:68098**
Rytter, Wojciech *see* **Berman, Piotr et al., 2004b:68180**
Sagert, Garry *see* **King, Valerie, 2004c:68109**
Salamon, Peter *see* **Gehring, Wolfgang et al.**
Samorodnitsky, Alex *see* **Parnas, Michal et al., 2004b:68068**
Saunders, B. David (*with* Storjohann, Arne; Villard, Gilles) Matrix rank certification. (English summary) **2004k:15004**
Savelsbergh, Martin W. P. *see* **Hunsaker, Brady et al., 2004k:68069**
Schnitger, Georg *see* **Hromkovič, Juraj, 2004b:68092**
Seiden, Steven S. *see* **Epstein, Leah et al., 2004f:90063**
Sgall, Jiří *see* **Epstein, Leah et al., 2004f:90063**
Sharir, Micha *see* **Ezra, Eti et al., 2004m:68258**
Sibani, Paolo *see* **Gehring, Wolfgang et al.**
Sibeyn, Jop F. List-ranking on interconnection networks. (English summary) **2004c:68010**
Simonovits, Miklós *see* **Brieden, Andreas et al., 2004f:52012**
Siniolakis, Constantinos J. *see* **Gerbessiotis, Alexandros V., 2004h:68026** *and* **2004m:68031**
Sitaraman, Ramesh *see* **Mitzenmacher, Michael et al., 2004c:68171**
Sivakumar, D. *see* **Kumar, S. Ravi, 2004i:68086**
Skulrattanakulchai, San *see* **Gabow, Harold N.**
Slany, Wolfgang *see* **Even, Guy et al.**
Srivastav, Anand Derandomization in combinatorial optimization. **2004c:90051**
Storjohann, Arne *see* **Saunders, B. David et al., 2004k:15004**
Stougie, Leen *see* **Krumke, Sven Oliver et al., 2004c:68170**
Tamassia, Roberto *see* **Goodrich, Michael T., 2004a:68015**
Toussaint, Marc *see* **Igel, Christian, 2004c:68053**
Tovey, Craig A. *see* **Hunsaker, Brady et al., 2004k:68069**
Trevisan, Luca *see* **Goldreich, Oded, 2004i:68081**
Uthaisombut, Patchrawat *see* **Frederiksen, Jens S. et al., 2004f:68192**
Vadhan, Salil *see* **Raz, Ran et al., 2004f:68031** *and* **Randomization and approximation techniques in computer science, 2004j:68019**
Varman, Peter J. *see* **Kallahalla, Mahesh**
Villard, Gilles *see* **Saunders, B. David et al., 2004k:15004**
Wegener, Ingo *see* **Bollig, Beate, 2004d:68037**
Whitney, Roger E. *see* **Gehring, Wolfgang et al.**
Woeginger, Gerhard J. *see* **Epstein, Leah et al., 2004f:90063**
Yao, Xin *see* **He, Jun, 2004c:68169**
Zabinsky, Zelda B. ★ Stochastic adaptive search for global optimization. **2004i:90009**
Zane, Francis X. *see* **Gupta, Anupam, (2004a:68002)**
Zhang, Li[6] *see* **Gao, Jie[1] et al., 2004f:68166**
Zhu, An *see* **Gao, Jie[1] et al., 2004f:68166**

Items listed otherwise than by author

Cambridge, MA ★ Randomization and approximation techniques in computer science. **2004j:68019**
Lecture Notes in Computer Science ★ Randomization and approximation techniques in computer science. **2004j:68019**
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68W25 Approximation algorithms

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Agarwal, Pankaj K. (*with* Procopiuc, Cecilia M.; Varadarajan, Kasturi R.) A $(1+\varepsilon)$-approximation algorithm for 2-line-center. (English summary) **2004g:68194**
An, Zhi Ping *see* **Gao, Lei[2] et al.**
Archer, Aaron (*with* Williamson, David P.) Faster approximation algorithms for the minimum latency problem. (English summary) (*see* **2004a:68002**)
Arora, Sanjeev Approximation schemes for NP-hard geometric optimization problems: a survey. (English summary) **2004m:68281**
Augustine, John E. (*with* Seiden, Steven S.) Linear time approximation schemes for vehicle scheduling. (English summary)
Badger, Jonathan (*with* Kearney, Paul; Li, Ming[1]; Tsang, John; Jiang, Tao[1]) Selecting the branches for an evolutionary tree. A polynomial time approximation scheme. (English summary) **2004m:68282**
Bădoiu, Mihai Approximation algorithm for embedding metrics into a two-dimensional space. (English summary) (*see* **2004a:68002**)
Barrett, Christopher L. (*with* Marathe, Achla; Marathe, Madhav V.; Cook, Doug; Hicks, Gregory; Faber, Vance; Srinivasan, Aravind; Sussmann, Yoram; Thornquist, Heidi) Statistical analysis of algorithms: a case study of market-clearing mechanisms in the power industry. (English summary) **2004d:68179**
Bar-Yossef, Ziv (*with* Jayram, T. S.; Kumar, S. Ravi; Sivakumar, D.; Trevisan, Luca) Counting distinct elements in a data stream. (English summary) (*see* **2004j:68019**)
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Berghammer, Rudolf (*with* Reuter, Florian) A linear approximation algorithm for bin packing with absolute approximation factor $\frac{1}{2}$. (English summary) **2004d:68180**
Berman, Piotr (*with* Dasgupta, Bhaskar[1]; Muthukrishnan, S. Muthu) Approximation algorithms for max-min tiling. (English summary) **2004d:68181**
Bläser, Markus An $\frac{8}{13}$-approximation algorithm for the asymmetric maximum TSP. (English summary) **2004j:68195**
Cabello, Sergio (*with* van Kreveld, Marc) Approximation algorithms for aligning points. (English summary) **2004f:68186**

Călinescu, Gruia (*with* Fernandes, Cristina G.; Karloff, Howard; Zelikovsky, Alexander) A new approximation algorithm for finding heavy planar subgraphs. (English summary) **2004b:68186**
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Caragiannis, Ioannis (*with* Kaklamanis, Christos; Kanellopoulos, Panagiotis) A logarithmic approximation algorithm for the minimum energy consumption broadcast subgraph problem. (English summary) **2004b:68187**
Cardei, Mihaela (*with* Cheng, Xiuzhen; Cheng, Maggie Xiaoyan; Du, Ding-Zhu) A tale on guillotine cut. (English summary) **2004f:68188**
Chandran, L. Sunil (*with* Ram, L. Shankar) Approximations for ATSP with parametrized triangle inequality. (English summary) **2004m:68283**
Chawla, Deepak (*with* Li, Lin[3]; Scott, Stephen D.) Efficiently approximating weighted sums with exponentially many terms. (English summary) (*see* **2004j:68005**)
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Cheng, Maggie Xiaoyan *see* **Cardei, Mihaela et al., 2004f:68188**
Cheng, T. C. Edwin (*with* Liu, Zhaohui) $\frac{3}{2}$-approximation for two-machine no-wait flowshop scheduling with availability constraints. (English summary) **2004h:68152**
Cheng, Xiuzhen (*with* Huang, Xiao; Li, Deying; Wu, Weili; Du, Ding-Zhu) A polynomial-time approximation scheme for the minimum-connected dominating set in ad hoc wireless networks. (English summary) **2004j:68196**
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Cheriyan, Joseph (*with* Vempala, Santosh; Vetta, Adrian) An approximation algorithm for the minimum-cost k-vertex connected subgraph. (English summary) **2004g:68196**
Cimikowski, Robert *see* **Jiang, Minghui et al., 2004d:68184**
Clark, John *see* **van Wyk, M. A., 2004j:68199**
Cook, Doug *see* **Barrett, Christopher L. et al., 2004d:68179**
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Das, Sandip *see* **Roy, Sasanka et al., 2004j:68198**
Dasgupta, Bhaskar[1] *see* **Berman, Piotr et al., 2004d:68181**
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Doi, Takashi *see* **Fujito, Toshihiro, 2004m:68286**
Drake, Doratha E. (*with* Hougardy, Stefan) On approximation algorithms for the terminal Steiner tree problem. (English summary) **2004i:68248**
Du, Ding-Zhu *see* **Cardei, Mihaela et al., 2004f:68188** *and* **Cheng, Xiuzhen et al., 2004j:68196**
Dye, Shane (*with* Stougie, Leen; Tomasgard, Asgeir) Approximation algorithms and relaxations for a service provision problem on a telecommunication network. (English summary) **2004g:68197**
Ebbers-Baumann, Annette (*with* Klein, Rolf; Langetepe, Elmar; Lingas, Andrzej) A fast algorithm for approximating the detour of a polygon chain. (English summary) **2004j:68197**
Elkin, Michael (*with* Peleg, David) Approximating k-spanner problems for $k > 2$. (English summary) **2004m:68284**
Erlebach, Thomas (*with* Jansen, Klaus) Implementation of approximation algorithms for weighted and unweighted edge-disjoint paths in bidirected trees. (English summary) **2004d:68183**
Faber, Vance *see* **Barrett, Christopher L. et al., 2004d:68179**
Fakcharoenphol, Jittat (*with* Harrelson, Chris; Rao, Satish; Talwar, Kunal) An improved approximation algorithm for the 0-extension problem. (English summary) (*see* **2004a:68002**)
Feder, Tomás (*with* Motwani, Rajeev; Panigrahy, Rina; Olston, Chris; Widom, Jennifer) Computing the median with uncertainty. (English summary) **2004b:68189**
Feige, Uriel (*with* Langberg, Michael) The RPR^2 rounding technique for semidefinite programs. (English summary)
— Approximation thresholds for combinatorial optimization problems. (English summary) **2004a:68163**
— (*with* Rabinovich, Yuri) Deterministic approximation of the cover time. (English summary) **2004c:68159**
Feigenbaum, Joan (*with* Ishai, Yuval; Malkin, Tal; Nissim, Kobbi; Strauss, Martin Joel; Wright, Rebecca N.) Secure multiparty computation of approximations (extended abstract). (English summary)
Fekete, Sándor P. (*with* Meijer, Henk) Maximum dispersion and geometric maximum weight cliques. (English summary) **2004m:68285**
Feng, Haodi *see* **Deng, Xiao-Tie et al., 2004i:68247**
Fernandes, Cristina G. *see* **Călinescu, Gruia et al., 2004b:68186** *and* **2004f:68187**
Fernandez de la Vega, Wenceslao *see* **Bazgan, Cristina et al., 2004g:68195**
Fuchs, Bernhard A note on the terminal Steiner tree problem. (English summary) **2004g:68198**
Fujito, Toshihiro (*with* Doi, Takashi) A 2-approximation NC algorithm for connected vertex cover and tree cover. (English summary) **2004m:68286**
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Ishai, Yuval *see* **Feigenbaum, Joan et al.**
Jansen, Klaus Approximate strong separation with application in fractional graph coloring and preemptive scheduling. (English summary) **2004b:68190**
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Jiang, Tao[1] *see* **Chen, Zhi-Zhong et al., 2004b:68188** *and* **Badger, Jonathan et al., 2004m:68282**
Jurdziński, Tomasz *see* **Goerdt, Andreas, 2004e:68123**
Kaklamanis, Christos *see* **Caragiannis, Ioannis et al., 2004b:68187**
Kanellopoulos, Panagiotis *see* **Caragiannis, Ioannis et al., 2004b:68187**
Karloff, Howard *see* **Călinescu, Gruia et al., 2004b:68186**
Karpinski, Marek *see* **Bazgan, Cristina et al., 2004g:68195**
Kearney, Paul *see* **Badger, Jonathan et al., 2004m:68282**
Kellerer, Hans[2] (*with* Mansini, Renata; Pferschy, Ulrich; Speranza, Maria Grazia) An efficient fully polynomial approximation scheme for the subset-sum problem. (English summary) **2004b:68191**
Khanna, Sanjeev *see* **Chekuri, Chandra**
Khuller, Samir *see* **Gandhi, Rajiv et al., 2004k:68182**
Kim, Yoo Ah *see* **Gandhi, Rajiv et al., 2004k:68182**
Klein, Rolf *see* **Ebbers-Baumann, Annette et al., 2004j:68197**
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Konjevod, Goran *see* **Könemann, Jochen et al., 2004m:68288**
Korst, Jan *see* **Aerts, Joep et al., (2004j:68002)**
van Kreveld, Marc *see* **Cabello, Sergio, 2004f:68186**
Krishnamurti, Ramesh *see* **Czumaj, Artur et al., 2004d:68182**
Kumar, S. Ravi *see* **Bar-Yossef, Ziv et al., (2004j:68019)**
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Langetepe, Elmar *see* **Ebbers-Baumann, Annette et al., 2004j:68197**
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Levin, Asaf *see* **Hassin, Refael, 2004h:68154**
Li, Deying *see* **Cheng, Xiuzhen et al., 2004j:68196**
Li, Guo Jun[1] *see* **Deng, Xiao-Tie et al., 2004i:68247**
Li, Lin[3] *see* **Chawla, Deepak et al., (2004j:68005)**

Li, Ming[1] (*with* Ma, Bin; Wang, Lusheng) Finding similar regions in many sequences. (English summary) **2004e:68124**
— *see also* **Badger, Jonathan et al., 2004m:68282**
Li, Yan Jun *see* **Könemann, Jochen et al.**
Li, Zimao *see* **Deng, Xiao-Tie et al.**
Liberatore, Vincenzo Circular arrangements. (English summary)
— Circular arrangements and cyclic broadcast scheduling. (English summary) **2004m:68289**
Lin, Guo-Hui *see* **Chen, Zhi-Zhong et al., 2004b:68188**
Lingas, Andrzej *see* **Ebbers-Baumann, Annette et al., 2004j:68197** *and* **Czumaj, Artur et al.**
Liu, Gui Zhen *see* **Deng, Xiao-Tie et al., 2004i:68247**
Liu, Zhaohui *see* **Cheng, T. C. Edwin, 2004h:68152**
Loryś, Krzysztof (*with* Paluch, Katarzyna E.) New approximation algorithm for RTILE problem. (English summary) **2004f:68189**
Ma, Bin *see* **Li, Ming[1] et al., 2004e:68124** *and* **Deng, Xiao-Tie et al.**
Ma, Shao Han *see* **Zhang, Hong Liang et al., 2004m:68290**
Malkhi, Dahlia *see* **Horowitz, Keren**
Malkin, Tal *see* **Feigenbaum, Joan et al.**
Mansini, Renata *see* **Kellerer, Hans[2] et al., 2004b:68191**
Marathe, Achla *see* **Barrett, Christopher L. et al., 2004d:68179**
Marathe, Madhav V. *see* **Barrett, Christopher L. et al., 2004d:68179**
Mason, James J. *see* **Wu, Xiaodong et al.**
Mastrolilli, Monaldo A PTAS for the single machine scheduling problem with controllable processing times. (English summary)
Meijer, Henk *see* **Fekete, Sándor P., 2004m:68285**
Mettu, Ramgopal R. (*with* Plaxton, C. Greg) The online median problem. (English summary) **2004i:68249**
Miyazawa, F. K. (*with* Wakabayashi, Y.) Cube packing. (English summary) **2004d:68185**
Motwani, Rajeev *see* **Feder, Tomás et al., 2004b:68189**
Muthukrishnan, S. Muthu *see* **Berman, Piotr et al., 2004d:68181**
Nandy, Subhas C. *see* **Roy, Sasanka et al., 2004j:68198**
Nissim, Kobbi *see* **Feigenbaum, Joan et al.**
Olston, Chris *see* **Feder, Tomás et al., 2004b:68189**
Packer, Asa Polynomial-time approximation of largest simplices in V-polytopes. (English summary) **2004k:68183**
Paluch, Katarzyna E. *see* **Loryś, Krzysztof, 2004f:68189**
Panigrahy, Rina *see* **Feder, Tomás et al., 2004b:68189**
Parekh, Ojas *see* **Könemann, Jochen et al., 2004m:68288**
Paschos, Vangelis Th. Polynomial approximation and graph-coloring. (English summary) **2004b:68192**
— *see also* **Demange, Marc, 2004e:68122** *and* **2004h:68153**
Peleg, David *see* **Elkin, Michael, 2004m:68284**
Pettie, Seth *see* **Gabow, Harold N.**
Pferschy, Ulrich *see* **Kellerer, Hans[2] et al., 2004b:68191**
Plaxton, C. Greg *see* **Mettu, Ramgopal R., 2004i:68249**
Procopiuc, Cecilia M. *see* **Agarwal, Pankaj K. et al., 2004g:68194**
Prolubnikov, A. V. An estimate for the approximate solution of the covering problem by Chvatal's algorithm. (Russian. English summary) **2004a:68166**
Qian, Jianbo *see* **Jiang, Minghui et al., 2004d:68184**
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Qu, Gui Dong *see* **Ding, Ji Huan et al.**
Rabinovich, Yuri *see* **Feige, Uriel, 2004c:68159**
Ram, L. Shankar *see* **Chandran, L. Sunil, 2004m:68283**
Rao, Satish *see* **Fakcharoenphol, Jittat et al., (2004a:68002)**
Rapine, C. *see* **Lepere, R., (2004j:68020)**
Ravi, Ramamoorthi *see* **Könemann, Jochen, 2004c:68160**
Reed, Bruce A. *see* **Călinescu, Gruia et al., 2004f:68187**
Reuter, Florian *see* **Berghammer, Rudolf, 2004d:68180**
Ron, Dana Property testing. **2004c:68161**
Roy, Sasanka (*with* Goswami, Partha P.; Das, Sandip; Nandy, Subhas C.) Optimal algorithm for a special point-labeling problem. (English summary) **2004j:68198**
Rytter, Wojciech *see* **Czumaj, Artur et al., 2004d:68182**
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Scott, Stephen D. *see* **Chawla, Deepak et al., (2004j:68005)**
Seiden, Steven S. (*with* van Stee, Rob) New bounds for multidimensional packing. (English summary) **2004d:68186**
— *see also* **Augustine, John E.**
Sinha, Amitabh *see* **Könemann, Jochen et al., 2004m:68288**
Sivakumar, D. *see* **Bar-Yossef, Ziv et al., (2004j:68019)**
Solis-Oba, Roberto *see* **Jansen, Klaus, 2004h:68155**
Speranza, Maria Grazia *see* **Kellerer, Hans[2] et al., 2004b:68191**
Spieksma, Frits C. R. *see* **Aerts, Joep et al., (2004j:68002)**
Srinivasan, Aravind *see* **Barrett, Christopher L. et al., 2004d:68179** *and* **Gandhi, Rajiv et al.**
van Stee, Rob *see* **Seiden, Steven S., 2004d:68186**
Stougie, Leen *see* **Dye, Shane et al., 2004g:68197**
Strauss, Martin Joel *see* **Feigenbaum, Joan et al.**
Sussmann, Yoram *see* **Barrett, Christopher L. et al., 2004d:68179**
Talwar, Kunal *see* **Fakcharoenphol, Jittat et al., (2004a:68002)**
Thornquist, Heidi *see* **Barrett, Christopher L. et al., 2004d:68179**
Tomasgard, Asgeir *see* **Dye, Shane et al., 2004g:68197**
Trevisan, Luca *see* **Bar-Yossef, Ziv et al., (2004j:68019)**
Tsang, John *see* **Badger, Jonathan et al., 2004m:68282**
Varadarajan, Kasturi R. *see* **Agarwal, Pankaj K. et al., 2004g:68194**
Varpaaniemi, Kimmo Towards ambitious approximation algorithms in stubborn set optimization. (English summary) **2004i:68250**
Vempala, Santosh *see* **Cheriyan, Joseph et al., 2004g:68196**
Vetta, Adrian *see* **Cheriyan, Joseph et al., 2004g:68196**
Wakabayashi, Y. *see* **Miyazawa, F. K., 2004d:68185**
Wan, Yung-Chun *see* **Gandhi, Rajiv et al., 2004k:68182**
Wang, Lusheng *see* **Li, Ming[1] et al., 2004e:68124** *and* **Deng, Xiao-Tie et al.**
Wang, Xiao Dong[1] *see* **Gao, Lei[2] et al.**
Wen, Jianjun *see* **Chen, Zhi-Zhong et al., 2004b:68188**
Widom, Jennifer *see* **Feder, Tomás et al., 2004b:68189**
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Woeginger, Gerhard J. On the approximability of average completion time scheduling under precedence constraints. (English summary)
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Wright, Rebecca N. *see* **Feigenbaum, Joan et al.**
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Xu, Dong[1] *see* **Chen, Zhi-Zhong et al., 2004b:68188**
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Yang, Heng (*with* Ye, Yinyu; Zhang, Jiawei) An approximation algorithm for scheduling two parallel machines with capacity constraints. (English summary) **2004g:68199**
Ye, Yinyu *see* **Yang, Heng et al., 2004g:68199**
Yeo, Anders *see* **Gutin, Gregory, 2004a:68164**
Yue, Li *see* **Ding, Ji Huan et al.**
Zelikovsky, Alexander *see* **Călinescu, Gruia et al., 2004b:68186**
Zhang, De Yun *see* **Gao, Lei[2] et al.**
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Zhao, Hairong *see* **Czumaj, Artur et al.**
Zhu, Binhai *see* **Jiang, Minghui et al., 2004d:68184** *and* **Qin, Zhong Ping**
Zhu, Da Ming *see* **Zhang, Hong Liang et al., 2004m:68290**
Zito, Michele *see* **Czumaj, Artur et al., 2004d:68182**

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Alon, Noga (*with* Dar, Seannie; Parnas, Michal; Ron, Dana) Testing of clustering. (English summary) **2004h:68052**
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Arkin, Esther M. (*with* Hassin, Refael; Rubinstein, Shlomi; Sviridenko, M. I.) Approximations for maximum transportation problem with permutable supply vector and other capacitated star packing problems.
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— *see also* **Armon, Amitai et al.**, **2004e:90142**
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Bai, Er-Wei *see* **Li, Qingyu et al.**, **2004a:94017**
Bampis, Evripidis *see* **Angel, Eric et al.**, **2004g:68010** *and* **2004m:90163**
Barak, Amnon *see* **Okun, Michael**, **2004h:68106**
Baswana, Surender (*with* Hariharan, Ramesh; Sen, Sandeep) Maintaining all-pairs approximate shortest paths under deletion of edges. (English summary) (*see* **2004a:68002**)
Bazgan, Cristina (*with* Hassin, Refael; Monnot, Jérôme) Differential approximation for some routing problems. (English summary) (*see* **2004j:68002**)
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— (*with* Krysta, Piotr) Optimizing misdirection. (English summary) (*see* **2004a:68002**)
Bespamyatnikh, Sergei *see* **Spriggs, Michael J. et al.**, **2004k:68136**
Björklund, Andreas (*with* Husfeldt, Thore) Finding a path of superlogarithmic length. (English summary) **2004j:68140**
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Bouchitté, Vincent (*with* Kratsch, Dieter; Müller, Haiko; Todinca, Ioan) On treewidth approximations. (English summary) **2004k:05183**
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Bubley, Russ ★ Randomized algorithms: approximation, generation, and counting. **2004e:68002**
Burkhardt, Stefan (*with* Kärkkäinen, Juha) Better filtering with gapped q-grams. (English summary) **2004k:68175**
Cannon, Adam H. (*with* Cowen, Lenore J.) Approximation algorithms for the class cover problem. (English summary) **2004k:68064**
Caprara, Alberto Additive bounding, worst-case analysis, and the breakpoint median problem. (English summary) **2004b:68064**
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— (*with* Kellerer, Hans[2]; Pferschy, Ulrich) Approximation schemes for ordered vector packing problems. (English summary) **2004a:90069**
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Chan, Timothy M. Polynomial-time approximation schemes for packing and piercing fat objects. (English summary) **2004a:68142**
Chandran, L. Sunil A lower bound for the hitting set size for combinatorial rectangles and an application. (English summary) **2004a:68113**
Charikar, Moses (*with* Chen, Kevin C.; Farach-Colton, Martin) Finding frequent items in data streams. (English summary) **2004m:68025**
Chazelle, Bernard (*with* Rubinfeld, Ronitt; Trevisan, Luca) Approximating the minimum spanning tree weight in sublinear time. (English summary)
Chekuri, Chandra (*with* Khanna, Sanjeev) Edge disjoint paths revisited. (English summary) (*see* **2004a:68002**)
Chen, Kevin C. *see* **Charikar, Moses et al.**, **2004m:68025**
Chen, Yen Hung (*with* Lu, Chin Lung; Tang, Chuan Yi) On the full and bottleneck full Steiner tree problems. (English summary)
Cheng, Maggie Xiaoyan (*with* Gong, Zhigang; Huang, Xiao; Zhao, Hong G.; Jia, Xiaohua; Li, Deying) Wavelength assignment algorithms in multifiber networks. (English summary) **2004f:90018**
Cheng, T. C. Edwin (*with* Liu, Zhaohui) Approximability of two-machine no-wait flowshop scheduling with availability constraints. (English summary) **2004d:90029**
Cheong, Otfried *see* **Ahn, Hee-Kap et al.**, **2004c:68138**
Chien, Steve (*with* Rasmussen, Lars; Sinclair, Alistair) Clifford algebras and approximating the permanent. (English summary) **2004m:68280**
Chrzanowska-Jeske, Malgorzata *see* **Perkowski, Marek et al.**, **2004j:94044**
Chudak, Fabián A. (*with* Shmoys, David B.) Improved approximation algorithms for the uncapacitated facility location problem. (English summary) **2004m:90237**
Chwa, Kyung-Yong *see* **Jung, Joo-Won**, **2004j:68178**
Clarkson, Kenneth L. *see* **Bădoiu, Mihai**, (**2004a:68002**)
Codenotti, Bruno (*with* De Marco, Gianluca; Leoncini, Mauro; Montangero, Manuela; Santini, Massimo) Approximation algorithms for a hierarchically structured bin packing problem. (English summary) **2004j:90086**
Cohen, Edith (*with* Fiat, Amos; Kaplan, Haim) Efficient sequences of trials. (English summary) (*see* **2004a:68002**)
Confessore, Giuseppe (*with* Dell'Olmo, Paolo; Giordani, Stefano) Complexity and approximation results for scheduling multiprocessor tasks on a ring. (English summary) **2004k:90041**
Cowen, Lenore J. *see* **Cannon, Adam H.**, **2004k:68064**
Crescenzi, Pierluigi (*with* Greco, Federico) The minimum likely column cover problem. (English summary) **2004j:68075**
Czumaj, Artur (*with* Ergün, Funda; Fortnow, Lance; Magen, Avner; Newman, Ilan; Rubinfeld, Ronitt; Sohler, Christian) Sublinear-time approximation of Euclidean minimum spanning tree. (English summary) (*see* **2004a:68002**)
Dar, Seannie *see* **Alon, Noga et al.**, **2004h:68052**
Dasgupta, Bhaskar[1] (*with* Palis, Michael A.) Online real-time preemptive scheduling of jobs with deadlines on multiple machines. (English summary) **2004j:90040**
Datar, Mayur (*with* Gionis, Aristides; Indyk, Piotr; Motwani, Rajeev) Maintaining stream statistics over sliding windows. (English summary) **2004e:68017**
Dell'Olmo, Paolo *see* **Confessore, Giuseppe et al.**, **2004k:90041**
Demange, Marc (*with* de Werra, Dominique; Monnot, Jérôme; Paschos, Vangelis Th.) Weighted node coloring: when stable sets are expensive. (English summary)
— (*with* Monnot, Jérôme; Paschos, Vangelis Th.) Differential approximation results for the Steiner tree problem. (English summary) **2004e:90146**
De Marco, Gianluca *see* **Codenotti, Bruno et al.**, **2004j:90086**
Demetrescu, Camil (*with* Finocchi, Irene) Break the "right" cycles and get the "best" drawing. (English summary) **2004m:68297**
— (*with* Finocchi, Irene) Combinatorial algorithms for feedback problems in directed graphs. (English summary) **2004b:05190**
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Ding, Zhi *see* **Li, Qingyu et al.**, **2004a:94017**
Drechsler, Rolf *see* **Perkowski, Marek et al.**, **2004j:94044**
Duckworth, William (*with* Wormald, Nicholas C.; Zito, Michele) A PTAS for the sparsest 2-spanner of 4-connected planar triangulations. (English summary) **2004k:05188**
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Eidenbenz, Stephan J. (*with* Widmayer, Peter) An approximation algorithm for minimum convex cover with logarithmic performance guarantee. (English summary) **2004h:68143**
Engebretsen, Lars (*with* Holmerin, Jonas) Towards optimal lower bounds for clique and chromatic number. (English summary) **2004m:68073**
Epstein, Leah (*with* Tassa, Tamir) Vector assignment problems: a general framework. (English summary) **2004e:90055**
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Erlebach, Thomas (*with* Spieksma, Frits C. R.) Interval selection: applications, algorithms, and lower bounds. (English summary) **2004a:90028**
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Falkowski, Bogdan J. *see* **Perkowski, Marek et al.**, **2004j:94044**
Farach-Colton, Martin *see* **Charikar, Moses et al.**, **2004m:68025**
Feder, Tomás (*with* Motwani, Rajeev; Subi, Carlos) Approximating the longest cycle problem in sparse graphs. (English summary) **2004g:68130**
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Feigenbaum, Joan (*with* Kannan, Sampath; Strauss, Martin Joel; Viswanathan, Mahesh) An approximate L^1-difference algorithm for massive data streams. (English summary) **2004a:68162**
Feng, Haodi *see* **Deng, Xiao-Tie et al.**, **2004k:68066**
Fernandez de la Vega, Wenceslao (*with* Kenyon, Claire) A randomized approximation scheme for metric MAX-CUT. (English summary) **2004j:68191**
Fernau, Henning Complexity of a $\{0, 1\}$-matrix problem. (English summary) **2004k:68067**
Fiat, Amos *see* **Cohen, Edith et al.**, (**2004a:68002**)
Finocchi, Irene *see* **Demetrescu, Camil**, **2004b:05190** *and* **2004m:68297**
Fleischer, Lisa A 2-approximation for minimum cost $\{0, 1, 2\}$ vertex connectivity. (English summary) **2004m:90173**
— (*with* Sethuraman, Jay) Approximately optimal control of fluid networks. (English summary) (*see* **2004a:68002**)
— (*with* Skutella, Martin) Minimum cost flows over time without intermediate storage. (English summary) (*see* **2004a:68002**)
Fleischer, Rudolf (*with* Golin, Mordecai J.; Lea, Chin-Tau; Wong, Steven) Finding optimal paths in MREP routing. (English summary)
Fomin, Fedor V. (*with* Kratsch, Dieter; Müller, Haiko) Algorithms for graphs with small octopus. (English summary) **2004k:05189**
Fortnow, Lance *see* **Czumaj, Artur et al.**, (**2004a:68002**)
Fotakis, Dimitris A. (*with* Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) Radiocolorings in periodic planar graphs: PSPACE-completeness and efficient approximations for the optimal range of frequencies. (English summary)
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Frieder, Ophir *see* **Alzoubi, Khaled M. et al.**, **2004c:68105**
Frieze, Alan *see* **Dyer, Martin E.**, **2004h:05047**
Galbiati, Giulia On finding cycle bases and fundamental cycle bases with a shortest maximal cycle. (English summary) **2004h:68056**
Gale, Amy *see* **Welsh, D. J. A.**, (**2004d:68050**)
Galluccio, Anna (*with* Proietti, Guido) Polynomial time algorithms for 2-edge-connectivity augmentation problems. (English summary) **2004d:68118**

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Gionis, Aristides *see* **Datar, Mayur et al., 2004e:68017**

Giordani, Stefano *see* **Confessore, Giuseppe et al., 2004k:90041**

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Goldberg, Leslie Ann (*with* Jerrum, Mark; Paterson, M. S.) The computational complexity of two-state spin systems. (English summary) **2004f:82007**

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Goldreich, Oded (*with* Trevisan, Luca) Three theorems regarding testing graph properties. (English summary) **2004i:68081**

Goldschmidt, Olivier (*with* Laugier, Alexandre; Olinick, Eli V.) SONET/SDH ring assignment with capacity constraints. (English summary) **2004e:90147**

Golin, Mordecai J. *see* **Fleischer, Rudolf et al.**

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Gramm, Jens (*with* Hirsch, Edward A.; Niedermeier, Rolf; Rossmanith, Peter) Worst-case upper bounds for MAX-2-SAT with an application to MAX-CUT. (English summary) **2004j:68077**

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Greco, Federico *see* **Crescenzi, Pierluigi, 2004j:68075**

Gritzmann, Peter *see* **Brieden, Andreas et al., 2004f:52012**

Grohe, Martin Local tree-width, excluded minors, and approximation algorithms. (English summary) **2004m:05248**

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Gudmundsson, Joachim *see* **Andersson, Mattias et al., 2004k:68166** *and* **(2004j:00014)**

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Guo, Jiong *see* **Alber, Jochen et al.**

Gupta, Anupam Improved results for directed multicut. (English summary) (*see* **2004a:68002**)

Gupta, Arvind *see* **Gaur, Daya Ram et al., 2004b:90039**

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Halldórsson, Magnús M. (*with* Kortsarz, Guy; Shachnai, Hadas) Sum coloring interval and k-claw free graphs with application to scheduling dependent jobs. (English summary) **2004f:05056**

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Hariharan, Ramesh *see* **Baswana, Surender et al., (2004a:68002)**

Harrelson, Chris *see* **Fakcharoenphol, Jittat et al., (2004a:68002)**

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Hassin, Refael (*with* Ravi, Ramamoorthi; Salman, F. Sibel) Approximation algorithms for a capacitated network design problem. (English summary) **2004m:90013**

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Ho, Hann-Jang *see* **Lee, SingLing, 2004f:05177**

Holmerin, Jonas *see* **Engebretsen, Lars, 2004m:68073**

Hu, Xiao-Dong *see* **Gu, Jun et al., 2004j:68027**

Huang, Scott C.-H. *see* **Min, Manki et al., 2004h:90061**

Huang, Xiao *see* **Cheng, Maggie Xiaoyan et al., 2004f:90018**

Husfeldt, Thore *see* **Björklund, Andreas, 2004j:68140**

Ibaraki, Toshihide *see* **Zhao, Liang et al., 2004b:05196**

Indyk, Piotr (*with* Venkatasubramanian, Suresh) Approximate congruence in nearly linear time. (English summary) **2004a:68146**

— *see also* **Datar, Mayur et al., 2004e:68017**

Ishii, Toshimasa *see* **Nagamochi, Hiroshi, 2004f:05101**

Jain, Kamal (*with* Măndoiu, Ion; Vazirani, Vijay V.; Williamson, David P.) A primal-dual schema based approximation algorithm for the element connectivity problem. (English summary) **2004h:90024**

Jansen, Klaus Approximate strong separation with application in fractional graph coloring and preemptive scheduling. (English summary) (*see* **2004j:68020**)

Jerrum, Mark ★ Counting, sampling and integrating: algorithms and complexity. **2004a:68044**

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Jia, Xiaohua *see* **Cheng, Maggie Xiaoyan et al., 2004f:90018** *and* **Gu, Jun et al., 2004j:68027**

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Jung, Joo-Won (*with* Chwa, Kyung-Yong) Labeling points with given rectangles. (English summary) **2004j:68178**

Jurdziński, Tomasz *see* **Goerdt, Andreas**

Kalyanasundaram, Bala (*with* Pruhs, Kirk R.; Velauthapillai, Mahendran) Scheduling broadcasts in wireless networks. (English summary) **2004i:90043**

Kannan, Ravindran *see* **Brieden, Andreas et al., 2004f:52012**

Kannan, Sampath *see* **Feigenbaum, Joan et al., 2004a:68162**

Kaplan, Haim *see* **Cohen, Edith et al., (2004a:68002)**

Kärkkäinen, Juha *see* **Burkhardt, Stefan, 2004k:68175**

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Karuno, Yoshiyuki (*with* Nagamochi, Hiroshi) An approximability result of the multi-vehicle scheduling problem on a path with release and handling times. (English summary) **2004j:90042**

Katoh, Naoki *see* **Asano, Tetsuo et al., 2004k:68129**

Keil, J. Mark *see* **Spriggs, Michael J. et al., 2004k:68136**

Kellerer, Hans[2] (*with* Strusevich, V. A.) Scheduling problems for parallel dedicated machines under multiple resource constraints. (English summary) **2004i:90044**

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Kenyon, Claire (*with* Schabanel, Nicolas) The data broadcast problem with non-uniform transmission times. (English summary) **2004i:68011**

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Khanna, Sanjeev *see* **Adler, Micah et al., 2004g:68002**; **Guruswami, Venkatesan et al., 2004i:68083** *and* **Chekuri, Chandra, (2004a:68002)**

Khuller, Samir *see* **Guha, Sudipto et al., 2004f:05175**

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Klee, Victor *see* **Brieden, Andreas et al., 2004f:52012**

Kleinberg, Jon (*with* Papadimitriou, Christos H.; Raghavan, Prabhakar) Auditing Boolean attributes. (English summary) **2004m:68035**

Könemann, Jochen (*with* Li, Yan Jun; Parekh, Ojas; Sinha, Amitabh) An approximation algorithm for the edge-dilation k-center problem. (English summary)

Kononov, Aleksandr Veniaminovich *see* **Angel, Eric et al., 2004g:68010**

Korst, Jan *see* **Michiels, Wil, 2004g:68061** *and* **2004i:68087**

Kortsarz, Guy (*with* Nutov, Zeev) Approximating node connectivity problems via set covers. (English summary) **2004e:05185**

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Kráľ, Daniel (*with* Kratochvíl, Jan; Voss, Heinz-Jürgen) Mixed hypergraphs with bounded degree: edge-coloring of mixed multigraphs. (English summary) **2004e:05129**

Kratochvíl, Jan *see* **Kráľ, Daniel et al., 2004e:05129**

Kratsch, Dieter *see* **Bouchitté, Vincent et al., 2004k:05183** *and* **Fomin, Fedor V. et al., 2004k:05189**

Krauthgamer, Robert *see* **Halperin, Eran et al., (2004a:68002)**

Krick, Christof (*with* Räcke, Harald; Westermann, Matthias) Approximation algorithms for data management in networks. (English summary) **2004i:68012**

Krishnamurthy, Rajaesekar *see* **Chakaravarthy, Venkatesan T.**

Krishnamurti, Ramesh *see* **Gaur, Daya Ram et al., 2004b:90039**

Krivelevich, Michael (*with* Sudakov, Benny) Approximate coloring of uniform hypergraphs. (English summary) **2004m:05183**

Krumke, Sven Oliver (*with* Marathe, Madhav V.; Poensgen, Diana; Ravi, S. S.; Wirth, Hans-Christoph) Budgeted maximum graph coverage. (English summary)

Krysta, Piotr *see* **Berman, Piotr, (2004a:68002)**

Kumar, S. Ravi (*with* Sivakumar, D.) On polynomial-factor approximations to the shortest lattice vector length. (English summary) **2004i:68086**

Kumar, V. S. Anil (*with* Ramesh, H.) Covering rectilinear polygons with axis-parallel rectangles. (English summary) **2004m:52044**

Kuri, Josué (*with* Navarro, Gonzalo; Mé, Ludovic) Fast multipattern search algorithms for intrusion detection. (English summary) **2004k:68177**

Laber, Eduardo Sany *see* **Milidiú, Ruy Luiz et al., 2004f:90052**

Laforest, Christian *see* **Klasing, Ralf**

Lanctot, J. Kevin (*with* Li, Ming[1]; Ma, Bin; Wang, Shaojiu; Zhang, Louxin) Distinguishing string selection problems. (English summary) **2004i:68241**

Laugier, Alexandre *see* **Goldschmidt, Olivier et al., 2004e:90147**

Lea, Chin-Tau *see* **Fleischer, Rudolf et al.**

Lee, Richard Char Tung *see* **Lu, Chin Lung et al., 2004f:05178**

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Leonardi, Stefano *see* **Henzinger, Monika R., 2004f:90049**
Leoncini, Mauro *see* **Codenotti, Bruno et al., 2004j:90086**
Levcopoulos, Christos *see* **Andersson, Mattias et al., 2004k:68166** *and* **(2004j:00014)**
Levin, Asaf *see* **Hassin, Refael, 2004k:90101**
Lev-Tov, Nissan (*with* Peleg, David) Exact algorithms and approximation schemes for base station placement problems. (English summary)
Lewenstein, Moshe (*with* Sviridenko, M. I.) Approximating asymmetric maximum TSP. (English summary) (*see* **2004a:68002**)
Li, Deying *see* **Cheng, Maggie Xiaoyan et al., 2004f:90018**
Li, Guo Jun[1] *see* **Deng, Xiao-Tie et al., 2004b:68123**; **2004h:92013** *and* **Zhang, Shao Qiang**
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Li, Qingyu (*with* Bai, Er-Wei; Ding, Zhi) Blind source separation of signals with known alphabets using ε-approximation algorithms. (English summary) **2004a:94017**
Li, Su Zhen *see* **Tao, Yu Min et al.**
Li, Yan Jun *see* **Könemann, Jochen et al.**
Li, Zimao *see* **Deng, Xiao-Tie et al., 2004h:92013**
Liu, Jian *see* **Min, Manki et al., 2004h:90061**
Liu, Jiping *see* **He, George et al., 2004g:68131**
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Liu, Yang *see* **Tao, Yu Min et al.**
Liu, Zhaohui *see* **Cheng, T. C. Edwin, 2004d:90029**
Long, Philip M. *see* **Lee, Wee Sun, (2004j:68005)**
Lovász, László *see* **Brieden, Andreas et al., 2004f:52012**
Lu, Chin Lung (*with* Tang, Chuan Yi; Lee, Richard Char Tung) The full Steiner tree problem. (English summary) **2004f:05178**
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Luan, Jun Feng (*with* Zhu, Da Ming; Ma, Shao Han) A problem of reversal distance on star-tree with object partially fixed. (Chinese. English and Chinese summaries) **2004c:68054**
Ma, Bin *see* **Deng, Xiao-Tie et al., 2004h:92013** *and* **Lanctot, J. Kevin et al., 2004i:68241**
Ma, Shao Han *see* **Luan, Jun Feng et al., 2004c:68054**
Magen, Avner *see* **Czumaj, Artur et al., (2004a:68002)**
Măndoiu, Ion *see* **Jain, Kamal et al., 2004h:90024**
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Marathe, Madhav V. *see* **Krumke, Sven Oliver et al.**
Mastrolilli, Monaldo Notes on max flow time minimization with controllable processing times. (English summary) **2004j:90138**
Mé, Ludovic *see* **Kuri, Josué et al., 2004k:68177**
Meyerson, Adam *see* **Guha, Sudipto et al., 2004f:90074**
Micciancio, Daniele *see* **Dumer, Ilya et al., 2004a:68034**
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— (*with* Korst, Jan) Complexity of min-max subsequence problems. (English summary) **2004g:68061**
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Mitchell, Joseph S. B. *see* **Arkin, Esther M. et al., 2004c:68139**
Mo, Zhong Xi *see* **Tao, Yu Min et al.**
Monnot, Jérôme (*with* Paschos, Vangelis Th.; Toulouse, Sophie) Approximation algorithms for the traveling salesman problem. (English summary) **2004a:90107**
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Montangero, Manuela *see* **Codenotti, Bruno et al., 2004j:90086**
Mossel, Elchanan (*with* Umans, Christopher) On the complexity of approximating the VC dimension. (English summary) **2004c:68047**
Motwani, Rajeev *see* **Datar, Mayur et al., 2004e:68017** *and* **Feder, Tomás et al., 2004g:68130**
Mourrain, Bernard (*with* Pan, Victor Y.; Ruatta, O.) Accelerated solution of multivariate polynomial systems of equations. (English summary) **2004b:65072**
Müller, Haiko *see* **Bouchitté, Vincent et al., 2004k:05183** *and* **Fomin, Fedor V. et al., 2004k:05189**
Munagala, Kamesh *see* **Guha, Sudipto et al., 2004f:90074**
Nagamochi, Hiroshi An approximation for finding a smallest 2-edge-connected subgraph containing a specified spanning tree. (English summary) **2004c:05193**
— (*with* Ishii, Toshimasa) On the minimum local-vertex-connectivity augmentation in graphs. (English summary) **2004f:05101**
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Narasimhan, Giri *see* **Andersson, Mattias et al., 2004k:68166** *and* **(2004j:00014)**
Narayanaswamy, N. S. *see* **Backofen, Rolf et al., 2004m:68070**
Navarro, Gonzalo *see* **Kuri, Josué et al., 2004k:68177**
Nekrich, Yakov *see* **Berman, Piotr et al.**
Newman, Ilan *see* **Czumaj, Artur et al., (2004a:68002)**
Niedermeier, Rolf *see* **Gramm, Jens et al., 2004j:68077** *and* **Alber, Jochen et al.**
Nikoletseas, Sotiris E. *see* **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**
Nourine, Lhouari *see* **Habib, Michel et al., 2004k:68068**
Nutov, Zeev *see* **Kortsarz, Guy, 2004e:05185**
Obokata, Koji *see* **Asano, Tetsuo et al., 2004k:68129**
Okano, Hiroyuki *see* **Hidaka, Kazuyoshi, 2004a:90039**
Okun, Michael (*with* Barak, Amnon) A new approach for approximating node deletion problems. (English summary) **2004h:68106**
Olinick, Eli V. *see* **Goldschmidt, Olivier et al., 2004e:90147**
Or, Einat *see* **Guha, Sudipto et al., 2004f:05175**
Palis, Michael A. *see* **Dasgupta, Bhaskar[1], 2004j:90040**
Pan, Victor Y. *see* **Mourrain, Bernard et al., 2004b:65072**
Panconesi, Alessandro *see* **Caprara, Alberto et al., 2004h:05121**
Papadimitriou, Christos H. *see* **Kleinberg, Jon et al., 2004m:68035**
Papadopoulou, Vicky G. *see* **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**
Parekh, Ojas *see* **Könemann, Jochen et al.**
Parnas, Michal (*with* Ron, Dana; Rubinfeld, Ronitt) On testing convexity and submodularity. (English summary) **2004h:68159**
— *see also* **Alon, Noga et al., 2004h:68052**
Paschos, Vangelis Th. *see* **Monnot, Jérôme et al., 2004a:90107**; **Bazgan, Cristina, 2004b:90091** *and* **Demange, Marc et al., 2004e:90146**
Paterson, M. S. *see* **Goldberg, Leslie Ann et al., 2004f:82007**
Peleg, David *see* **Lev-Tov, Nissan**
Perkowski, Marek (*with* Falkowski, Bogdan J.; Chrzanowska-Jeske, Malgorzata; Drechsler, Rolf) Efficient algorithms for creation of linearly-independent decision diagrams and their mapping to regular layouts. (English summary) **2004j:94044**
Pessoa, Artur Alves *see* **Milidiú, Ruy Luiz et al., 2004f:90052**
Pferschy, Ulrich *see* **Caprara, Alberto et al., 2004a:90069** *and* **Kellerer, Hans[2], 2004m:90087**
Piatko, Christine D. *see* **Arkin, Esther M. et al., 2004c:68139**
Pisaruk, N. N. A fully combinatorial 2-approximation algorithm for precedence-constrained scheduling a single machine to minimize average weighted completion time. (English summary) **2004h:90016**
Poensgen, Diana *see* **Krumke, Sven Oliver et al.**
Poon, Chung Keung (*with* Zhang, Pixing) Minimizing makespan in batch machine scheduling. (English summary) **2004m:90053**
Procopiuc, Cecilia M. *see* **Agarwal, Pankaj K., 2004b:90087**
Proietti, Guido *see* **Galluccio, Anna, 2004d:68118**
Pruhs, Kirk R. *see* **Kalyanasundaram, Bala et al., 2004i:90043**
Queyranne, Maurice (*with* Sviridenko, M. I.) A $(2+\varepsilon)$-approximation algorithm for generalized preemptive open shop problem with minsum objective. (English summary) (*see* **2004j:90010**)
— (*with* Sviridenko, M. I.) Approximation algorithms for shop scheduling problems with minsum objective. (English summary) **2004g:90125**
Räcke, Harald *see* **Krick, Christof et al., 2004i:68012**
Raghavachari, Balaji *see* **Jothi, Raja et al., (2004a:68002)**
Raghavan, Prabhakar *see* **Kleinberg, Jon et al., 2004m:68035**
Rajaraman, Rajmohan *see* **Adler, Micah et al., 2004g:68002** *and* **Guruswami, Venkatesan et al., 2004i:68083**
Ramesh, H. *see* **Kumar, V. S. Anil, 2004m:52044**
Rao, Satish *see* **Fakcharoenphol, Jittat et al., (2004a:68002)**
Rasmussen, Lars *see* **Chien, Steve et al., 2004m:68280**
Ravi, Ramamoorthi *see* **Hassin, Refael et al., 2004m:90013**
Ravi, S. S. *see* **Krumke, Sven Oliver et al.**
Raynaud, O. *see* **Habib, Michel et al., 2004k:68068**
Regev, Oded *see* **Armon, Amitai et al., 2004e:90142**
Regis, Rommel G. *see* **Gomes, Carla P. et al., (2004a:68002)**
Ren, Qing Hua *see* **Tao, Yu Min et al.**
Richter, Yossi *see* **Azar, Yossi et al.**
Rizzi, Romeo On Rajagopalan and Vazirani's $\frac{3}{2}$-approximation bound for the iterated 1-Steiner heuristic. (English summary) **2004f:68120**
— *see also* **Caprara, Alberto et al., 2004h:05121**
(Rolim, José D. P.) *see* **Randomization and approximation techniques in computer science, 2004j:68019**
Ron, Dana *see* **Alon, Noga et al., 2004h:68052** *and* **Parnas, Michal et al., 2004h:68159**
Ron, Dorit *see* **Brandt, Achi, (2004f:90010)**
Rosén, Adi *see* **Adler, Micah et al., 2004g:68002**
Rossmanith, Peter *see* **Gramm, Jens et al., 2004j:68077**
Rothe, Jörg *see* **Hemaspaandra, Edith et al.**
Ruatta, O. *see* **Mourrain, Bernard et al., 2004b:65072**
Rubinfeld, Ronitt *see* **Parnas, Michal et al., 2004h:68159**; **Czumaj, Artur et al., (2004a:68002)** *and* **Chazelle, Bernard et al.**
Rubinstein, Shlomi *see* **Arkin, Esther M. et al.**
Salman, F. Sibel *see* **Hassin, Refael et al., 2004m:90013**
Santini, Massimo *see* **Codenotti, Bruno et al., 2004j:90086**
Schabanel, Nicolas *see* **Kenyon, Claire, 2004i:68011**
Schieber, Baruch *see* **Even, Guy et al., 2004g:68129**
Schmidt, Günter Joachim *see* **Braun, Oliver, 2004i:90033**
Segal, Michael *see* **Spriggs, Michael J. et al., 2004k:68136**
Seiden, Steven S. (*with* van Stee, Rob; Epstein, Leah) New bounds for variable-sized online bin packing. (English summary) **2004e:68042**
Sen, Sandeep *see* **Baswana, Surender et al., (2004a:68002)**
Sethuraman, Jay *see* **Fleischer, Lisa, (2004a:68002)**
Shachnai, Hadas *see* **Halldórsson, Magnús M. et al., 2004f:05056**
Shamir, Ron (*with* Sharan, Roded; Tsur, Dekel) Cluster graph modification problems. (English summary)
Sharan, Roded *see* **Shamir, Ron et al.**
Shen, Hao (*with* Yang, Qi Fan) A two-machine sequencing approximation algorithm for maximizing the number of early jobs. (Chinese. English and Chinese summaries) **2004d:90019**
Shepherd, F. Bruce *see* **Guruswami, Venkatesan et al., 2004i:68083**
Shin, Chan-Su *see* **Ahn, Hee-Kap et al., 2004c:68138**
Shmoys, David B. *see* **Chudak, Fabián A., 2004m:90237**; **Swamy, Chaitanya, (2004a:68002)** *and* **Gomes, Carla P. et al., (2004a:68002)**
Shragowitz, Eugene *see* **Min, Manki et al., 2004h:90061**
Simonovits, Miklós How to compute the volume in high dimension? (English summary) **2004j:68194**
— *see also* **Brieden, Andreas et al., 2004f:52012**
Sinclair, Alistair *see* **Chien, Steve et al., 2004m:68280**
Sinha, Amitabh *see* **Könemann, Jochen et al.**
Sivakumar, D. *see* **Kumar, S. Ravi, 2004i:68086**
Skutella, Martin *see* **Fleischer, Lisa, (2004a:68002)**

Slany, Wolfgang *see* **Even, Guy et al.**
Snoeyink, Jack *see* **Spriggs, Michael J. et al., 2004k:68136**
Sohler, Christian *see* **Czumaj, Artur et al., (2004a:68002)**
Spakowski, Holger *see* **Hemaspaandra, Edith et al.**
Speranza, Maria Grazia *see* **Mansini, Renata et al., 2004j:68040**
Spieksma, Frits C. R. *see* **Erlebach, Thomas, 2004a:90028**
Spirakis, Paul G. *see* **Fotakis, Dimitris A. et al.** *and* **Andreou, Maria I. et al.**
Spriggs, Michael J. (*with* Keil, J. Mark; Bespamyatnikh, Sergei; Segal, Michael; Snoeyink, Jack) Computing a $(1+\varepsilon)$-approximate geometric minimum-diameter spanning tree. (English summary) **2004k:68136**
Srinivasan, Aravind On the approximability of clique and related maximization problems. (English summary) **2004i:68071**
— *see also* **Feige, Uriel et al., 2004d:05139** *and* **Halperin, Eran et al., (2004a:68002)**
van Stee, Rob *see* **Seiden, Steven S. et al., 2004e:68042**
Stein, Clifford (*with* Wagner, David P.) Approximation algorithms for the minimum bends traveling salesman problem. (English summary) **2004m:90188**
Strauss, Martin Joel *see* **Feigenbaum, Joan et al., 2004a:68162**
Strusevich, V. A. *see* **Kellerer, Hans[2], 2004b:90041** *and* **2004i:90044**
Subi, Carlos *see* **Feder, Tomás et al., 2004g:68130**
Sudakov, Benny *see* **Krivelevich, Michael, 2004m:05183**
Sudan, Madhu *see* **Dumer, Ilya et al., 2004a:68034**
Sviridenko, M. I. Makespan minimization in no-wait flow shops: a polynomial time approximation scheme. (English summary) **2004c:90017**
— *see also* **Queyranne, Maurice, 2004g:90125**; **(2004j:90010)**; **Lewenstein, Moshe, (2004a:68002)** *and* **Arkin, Esther M. et al.**
Swamy, Chaitanya (*with* Shmoys, David B.) Fault-tolerant facility location. (English summary) (*see* **2004a:68002**)
Swidan, Firas *see* **Backofen, Rolf et al., 2004m:68070**
Tang, Chuan Yi *see* **Lu, Chin Lung et al., 2004f:05178** *and* **Chen, Yen Hung et al.**
Tang, Le Le *see* **Liu, Xiang Hui[2] et al., 2004a:90007**
Tao, Yu Min (*with* Mo, Zhong Xi; Liu, Yang; Ren, Qing Hua; Li, Su Zhen) An approximation algorithm for genome rearrangement problems. (Chinese. English and Chinese summaries)
Tassa, Tamir *see* **Epstein, Leah, 2004e:90055**
Thierry, Éric *see* **Habib, Michel et al., 2004k:68068**
Thorup, Mikkel Quick and good facility location. (English summary) (*see* **2004a:68002**)
Timkovskiĭ, V. G. *see* **Middendorf, Martin, 2004f:90050**
Todinca, Ioan *see* **Bouchitté, Vincent et al., 2004k:05183**
Tokuyama, Takeshi *see* **Asano, Tetsuo et al., 2004k:68129**
Toulouse, Sophie *see* **Monnot, Jérôme et al., 2004a:90107**
Trevisan, Luca *see* **Goldreich, Oded, 2004i:68081** *and* **Chazelle, Bernard et al.**
Tsur, Dekel *see* **Shamir, Ron et al.**
Tuza, Zsolt *see* **Mansini, Renata et al., 2004j:68040**
Umans, Christopher *see* **Mossel, Elchanan, 2004c:68047**
(Vadhan, Salil) *see* **Randomization and approximation techniques in computer science, 2004j:68019**
Varadarajan, Subramanian *see* **Jothi, Raja et al., (2004a:68002)**
Vazirani, Vijay V. *see* **Jain, Kamal et al., 2004h:90024** *and* **Garg, Naveen et al., 2004i:90163**
Velauthapillai, Mahendran *see* **Kalyanasundaram, Bala et al., 2004i:90043**
Vempala, Santosh The random projection method. **2004b:68200**
Venkatasubramanian, Suresh *see* **Indyk, Piotr, 2004a:68146**
Viswanathan, Mahesh *see* **Feigenbaum, Joan et al., 2004a:68162**
Voss, Heinz-Jürgen *see* **Kráľ, Daniel et al., 2004e:05129**
Wagner, David P. *see* **Stein, Clifford, 2004m:90188**
Wan, Peng-Jun *see* **Alzoubi, Khaled M. et al., 2004c:68105**
Wang, Lusheng *see* **Deng, Xiao-Tie et al., 2004h:92013**
Wang, Nan[1] *see* **Halperin, Eran et al., (2004a:68002)**
Wang, Shaojiu *see* **Lanctot, J. Kevin et al., 2004i:68241**
Welsh, D. J. A. (*with* Gale, Amy) The complexity of counting problems. (English summary) (*see* **2004d:68050**)
de Werra, Dominique *see* **Demange, Marc et al.**
Westermann, Matthias *see* **Krick, Christof et al., 2004i:68012**
Widmayer, Peter *see* **Eidenbenz, Stephan J., 2004h:68143**
Williamson, David P. *see* **Jain, Kamal et al., 2004h:90024**
Wirth, Hans-Christoph *see* **Krumke, Sven Oliver et al.**
Woeginger, Gerhard J. *see* **Special Issue: Efficient scheduling algorithms** *and* **Azar, Yossi et al.**
Wong, Steven *see* **Fleischer, Rudolf et al.**
Wormald, Nicholas C. *see* **Duckworth, William et al., 2004k:05188**
Wu, Weili *see* **Min, Manki et al., 2004h:90061**
Xu, Da Chuan An approximation algorithm for single machine scheduling with controllable processing times. (Chinese. English and Chinese summaries) **2004k:90050**
— (*with* Ye, Yinyu; Zhang, Jiawei) Approximating the 2-catalog segmentation problem using semidefinite programming relaxations. (English summary) **2004m:90111**
Yang, Qi Fan *see* **Shen, Hao, 2004d:90019**
Yannakakis, Mihalis *see* **Guruswami, Venkatesan et al., 2004i:68083** *and* **Garg, Naveen et al., 2004i:90163**
Yao, Xin *see* **He, Jun, 2004c:68169**
Ye, Yinyu *see* **Xu, Da Chuan et al., 2004m:90111**
Yin, Jian Ping *see* **Liu, Xiang Hui[2] et al., 2004a:90007**
Zang, Wenan *see* **Deng, Xiao-Tie et al., 2004b:68123**
Zhang, Jiawei *see* **Xu, Da Chuan et al., 2004m:90111**
Zhang, Louxin *see* **Lanctot, J. Kevin et al., 2004i:68241**
Zhang, Mu-Hong *see* **Gu, Jun et al., 2004j:68027**
Zhang, Pixing *see* **Deng, Xiao-Tie et al., 2004k:68066** *and* **Poon, Chung Keung, 2004m:90053**
Zhang, Shao Qiang (*with* Li, Guo Jun[1]) A PTAS for the scheduling and wavelength assignment problem in WDM networks. (English and Chinese summaries)
Zhang, Yu Zhong[1] *see* **Deng, Xiao-Tie et al., 2004k:68066**
Zhao, Cheng *see* **He, George et al., 2004g:68131**
Zhao, Hong G. *see* **Cheng, Maggie Xiaoyan et al., 2004f:90018**
Zhao, Jian Min *see* **Liu, Xiang Hui[2] et al., 2004a:90007**
Zhao, Liang (*with* Nagamochi, Hiroshi; Ibaraki, Toshihide) A linear time $\frac{4}{3}$-approximation for the minimum strongly-connected spanning subgraph problem. (English summary) **2004b:05196**
Zhao, Ying[1] *see* **Min, Manki et al., 2004h:90061**
Zhao, Yiyuan *see* **Min, Manki et al., 2004h:90061**
Zhou, Yi *see* **Deng, Xiao-Tie et al., 2004b:68123**
Zhu, Da Ming *see* **Luan, Jun Feng et al., 2004c:68054**
Zhu, Hong[1] *see* **Deng, Xiao-Tie et al., 2004k:68066**
Zito, Michele *see* **Duckworth, William et al., 2004k:05188** *and* **Beis, Mihalis et al.**
Zwick, Uri *see* **Halperin, Eran, (2004j:90010)**

Items listed otherwise than by author

Cambridge, MA ★ Randomization and approximation techniques in computer science. **2004j:68019**
Lecture Notes in Computer Science ★ Randomization and approximation techniques in computer science. **2004j:68019**
Randomization and approximation techniques in computer science ★ Randomization and approximation techniques in computer science. **2004j:68019**
Saarbrücken ★ Special issue on efficient scheduling algorithms.
Special Issue:
Efficient scheduling algorithms ★ Special issue on efficient scheduling algorithms.
Symposium:
Algorithms ★ Special issue on efficient scheduling algorithms.
Workshop:
Approximation Algorithms ★ Special issue on efficient scheduling algorithms.

68W30 Symbolic computation and algebraic computation [see also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16Z05, 17–08, 33F10]

Andreica, Alina Implementing domains and categories in mathematica by means of parameterized types. (English summary)
Armando, Alessandro (*with* Ballarin, Clemens) Maple's evaluation process as constraint contextual rewriting. (English summary) (*see* **2004j:68016**)
— (*with* Rusinowitch, Michaël; Stratulat, Sorin) Incorporating decision procedures in implicit induction. (English summary) **2004a:68167**
Backes, Werner (*with* Wetzel, Susanne) Heuristics on lattice basis reduction in practice. (English summary) **2004c:68162**
Baghai-Wadji, Alireza R. A symbolic procedure for the diagonalization of linear PDEs in accelerated computational engineering. (English summary) (*see* **2004j:00025**)
Ballarin, Clemens *see* **Armando, Alessandro, (2004j:68016)**
Benhamou, Frédéric *see* **Petrov, Evgueni, (2004j:00013)** *and* **Granvilliers, Laurent et al., (2004j:68016)**
Bläser, Markus Improvements of the Alder-Strassen bound: algebras with nonzero radical. (English summary)
— The complexity of bivariate power series arithmetic. (English summary) **2004e:68125**
Blinkov, Yu. A. Computation of Janet bases of toric ideals. (Russian. Russian summary) **2004g:68200**
Bodnár, Gábor (*with* Kaltenbacher, Barbara; Pau, Petru; Schicho, Josef) Exact real computation in computer algebra. (English summary) **2004m:68291**
Bradford, Russell (*with* Davenport, James H.) Towards better simplification of elementary functions. (English summary) (*see* **2004j:68017**)
Carrà Ferro, Giuseppa (*with* Gerdt, Vladimir P.) An improved Kolchin-Ritt algorithm. (Russian. Russian summary) **2004g:68201**
Chapman, Frederick W. An elementary algorithm for the automatic derivation and proof of tensor product identities via computer algebra. (English summary) (*see* **2004j:68018**)
Cluzeau, Thomas Factorization of differential systems in characteristic p. (English summary) (*see* **2004j:68018**)
Cohen, Joel S. ★ Computer algebra and symbolic computation. (English summary) **2004b:68193**
— ★ Computer algebra and symbolic computation. **2004b:68194**
Cooperman, Gene (*with* Grinberg, Victor) Scalable parallel coset enumeration using bulk definition. (English summary) (*see* **2004j:68016**)
— (*with* Robinson, Eric) Memory-based and disk-based algorithms for very high degree permutation groups. (English summary) (*see* **2004j:68018**)
D'Andrea, Carlos (*with* Emiris, Ioannis Z.) Computing sparse projection operators. (English summary) **2004i:68252**
Davenport, James H. *see* **Bradford, Russell, (2004j:68017)**
Doligez, Damien *see* **Prevosto, Virgile et al., 2004b:68196** *and* **(2004k:68010)**
Dominguez, César (*with* Rubio García, Julio Jesús) Modeling inheritance as coercion in a symbolic computation system. (English summary) (*see* **2004j:68016**)
Drăgan, Mircea Using the Polish reverse notation in solving nonlinear equation systems. (English summary)
Dumas, Jean-Guillaume (*with* Gautier, Thierry; Pernet, Clément) Finite field linear algebra subroutines. (English summary) (*see* **2004j:68017**)
El Kahoui, M'hammed An elementary approach to subresultants theory. (English summary) **2004b:68195**
Elsonbaty, Ahmed *see* **Richardson, Daniel, 2004f:68190**
Emiris, Ioannis Z. *see* **D'Andrea, Carlos, 2004i:68252**
Fateman, Richard J. High-level proofs of mathematical programs using automatic differentiation, simplification, and some common sense. (English summary) (*see* **2004j:68018**)
Fleming, Michael (*with* Gunther, Ryan; Rosebrugh, Robert) A database of categories. (English summary) **2004a:68168**
von zur Gathen, Joachim (*with* Gerhard, Jürgen) ★ Modern computer algebra. **2004g:68202**
Gautier, Thierry *see* **Dumas, Jean-Guillaume et al., (2004j:68017)**

Gerdt, Vladimir P. (*with* Yanovich, D. A.) Implementation of the FGLM algorithm and the determination of the roots of polynomial involutive systems. (Russian. Russian summary)
— *see also* **Carrà Ferro, Giuseppa**, **2004g:68201**
Gerhard, Jürgen (*with* Giesbrecht, Mark; Storjohann, Arne; Zima, Eugene V.) Shiftless decomposition and polynomial-time rational summation. (English summary) (*see* **2004j:68018**)
— *see also* **von zur Gathen, Joachim**, **2004g:68202**
Giesbrecht, Mark (*with* Zhang, Yang[2]) Factoring and decomposing Ore polynomials over $\mathbb{F}_q(t)$. (English summary) (*see* **2004j:68018**)
— *see also* **Gerhard, Jürgen et al.**, (**2004j:68018**)
Granvilliers, Laurent (*with* Monfroy, Eric; Benhamou, Frédéric) Symbolic-interval cooperation in constraint programming. (English summary) (*see* **2004j:68016**)
Grinberg, Victor *see* **Cooperman, Gene**, (**2004j:68016**)
Gunther, Ryan *see* **Fleming, Michael et al.**, **2004a:68168**
Guričan, Jaroslav (*with* Slugéň, Juraj) Recurrence relations within polynomial sequences. (English summary) (*see* **2004k:08001**)
Hardin, Thérèse *see* **Prevosto, Virgile et al.**, (**2004k:68010**)
Heck, André ★ Introduction to Maple. **2004d:68187**
van der Hoeven, Joris Relaxed multiplication using the middle product. (English summary) (*see* **2004j:68018**)
Houseaux, V. (*with* Jacob, Gérard; Oussous, N. E.; Petitot, M.) A complete Maple package for noncommutative rational power series. (English summary) (*see* **2004m:00010**)
Hunt, Harry B., III (*with* Marathe, Madhav V.; Stearns, Richard E.) Strongly-local reductions and the complexity/efficient approximability of algebra and optimization on abstract algebraic structures. (English summary) (*see* **2004j:68016**)
Jacob, Gérard *see* **Houseaux, V. et al.**, (**2004m:00010**)
Jebelean, Tudor *see* **Konev, Boris**
Kaltenbacher, Barbara *see* **Bodnár, Gábor et al.**, **2004m:68291**
Kaltofen, Erich (*with* May, John) On approximate irreducibility of polynomials in several variables. (English summary) **2004m:68292**
Khanin, Raya Dimensional analysis in computer algebra. (English summary) (*see* **2004j:68016**)
— Automation of perturbation analysis in computer algebra: progress and difficulties. (English summary) (*see* **2004m:00010**)
Koepf, Wolfram A. Power series, Bieberbach conjecture and the de Branges and Weinstein functions. (English summary) **2004m:68293**
Konev, Boris (*with* Jebelean, Tudor) Solution lifting method for handling meta-variables in TH∃OREM∀. (English summary)
Krammer, Bettina ★ Algorithmische lineare Algebra für Polynommatrizen. (German. English summary) [Algorithmic linear algebra for polynomial matrices] **2004k:68184**
Le, Ha Simplification of definite sums of rational functions by creative symmetrizing method. (English summary) (*see* **2004j:68017**)
Lecerf, Grégoire Computing the equidimensional decomposition of an algebraic closed set by means of lifting fibers. (English summary) **2004j:68200**
Levandovskyy, Viktor (*with* Schönemann, Hans) PLURAL—a computer algebra system for noncommutative polynomial algebras. (English summary) (*see* **2004j:68018**)
Lipton, Richard J. (*with* Vishnoi, Nisheeth) Deterministic identity testing for multivariate polynomials. (English summary) (*see* **2004a:68002**)
Malashonok, G. I. On the solution of systems of linear equations by the p-adic method. (Russian. Russian summary) **2004g:68203**
Mansfield, Elizabeth L. (*with* Szanto, A.) Elimination theory for differential difference polynomials. (English summary) (*see* **2004j:68018**)
Marathe, Madhav V. *see* **Hunt, Harry B., III et al.**, (**2004j:68016**)
May, John *see* **Kaltofen, Erich**, **2004m:68292**
McCallum, Scott On propagation of equational constraints in CAD-based quantifier elimination. (English summary) (*see* **2004j:68016**)
— On order-invariance of a binomial over a nullifying cell. (English summary) (*see* **2004j:68018**)
Minimair, Manfred Factoring sparse resultants of linearly combined polynomials. (English summary) (*see* **2004j:68018**)
Monfroy, Eric *see* **Granvilliers, Laurent et al.**, (**2004j:68016**)
Naumann, Uwe Optimal accumulation of Jacobian matrices by elimination methods on the dual computational graph. (English summary) **2004m:68294**
Nicodème, Pierre Regexpcount, a symbolic package for counting problems on regular expressions and words. (English summary)
Niefield, Susan B. Implementing finite structures in Mathematica via a skeletal topos of finite sets. (English summary) **2004a:68169**
Oussous, N. E. *see* **Houseaux, V. et al.**, (**2004m:00010**)
Pau, Petru *see* **Bodnár, Gábor et al.**, **2004m:68291**
Pericleous, Savvas (*with* Vorob′ev, Nikolaĭ, Jr.) New complexity bounds for cylindrical decompositions of sub-Pfaffian sets. (English summary) (*see* **2004j:68016**)
Pernet, Clément *see* **Dumas, Jean-Guillaume et al.**, (**2004j:68017**)
Petitot, M. *see* **Houseaux, V. et al.**, (**2004m:00010**)
Petrov, Evgueni (*with* Benhamou, Frédéric) Improved interval constraint propagation for constraints on partial derivatives. (English summary) (*see* **2004j:00013**)
Prevosto, Virgile (*with* Doligez, Damien; Hardin, Thérèse) Algebraic structures and dependent records. (English summary) (*see* **2004k:68010**)
— (*with* Doligez, Damien) Algorithms and proofs inheritance in the Foc language. (English summary) **2004b:68196**
Reid, G. J. (*with* Tang, Jianliang; Zhi, Lihong) A complete symbolic-numeric linear method for camera pose determination. (English summary) (*see* **2004j:68018**)
Richardson, Daniel (*with* Elsonbaty, Ahmed) Use of algebraically independent numbers for zero recognition of polynomial terms. (English summary) **2004f:68190**
Rioboo, Renaud Towards faster real algebraic numbers. (English summary) (*see* **2004j:68017**)
Robinson, Eric *see* **Cooperman, Gene**, (**2004j:68018**)
Rosebrugh, Robert *see* **Fleming, Michael et al.**, **2004a:68168**
Rubio García, Julio Jesús *see* **Domínguez, César**, (**2004j:68016**)
Rusinowitch, Michaël *see* **Armando, Alessandro et al.**, **2004a:68167**
Safey El Din, Mohab (*with* Schost, Éric) Polar varieties and computation of one point in each connected component of a smooth algebraic set. (English summary) (*see* **2004j:68018**)
Sasaki, Tateaki The subresultant and clusters of close roots. (English summary) (*see* **2004j:68018**)
Scheiber, Ernest On the symbolic computation of e^{At} matrix in derive. (English summary)
Schicho, Josef *see* **Bodnár, Gábor et al.**, **2004m:68291**
Schönemann, Hans *see* **Levandovskyy, Viktor**, (**2004j:68018**)
Schost, Éric Complexity results for triangular sets. (English summary) **2004m:68295**
— *see also* **Safey El Din, Mohab**, (**2004j:68018**)
Seidl, Andreas (*with* Sturm, Thomas) A generic projection operator for partial cylindrical algebraic decomposition. (English summary) (*see* **2004j:68018**)
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Skorokhodov, S. L. Computer algebra in problems of the computational theory of special functions. (Russian. Russian summary) **2004g:68205**
Slugéň, Juraj *see* **Guričan, Jaroslav**, (**2004k:08001**)
Stearns, Richard E. *see* **Hunt, Harry B., III et al.**, (**2004j:68016**)
Storjohann, Arne *see* **Gerhard, Jürgen et al.**, (**2004j:68018**)
Stratulat, Sorin *see* **Armando, Alessandro et al.**, **2004a:68167**
Sturm, Thomas *see* **Seidl, Andreas**, (**2004j:68018**)
Szanto, A. *see* **Mansfield, Elizabeth L.**, (**2004j:68018**)
Tang, Jianliang *see* **Reid, G. J. et al.**, (**2004j:68018**)
Vishnoi, Nisheeth *see* **Lipton, Richard J.**, (**2004a:68002**)
Vorob′ev, Nikolaĭ, Jr. *see* **Pericleous, Savvas**, (**2004j:68016**)
Walther, Andrea Program reversals for evolutions with non-uniform step costs. (English summary) **2004k:68185**
Wetzel, Susanne *see* **Backes, Werner**, **2004c:68162**
Yang, Ting Li (*with* Yao, Fan Hua) An elimination method with decoupling of leading terms for systems of polynomial equations. (Chinese. English and Chinese summaries) **2004a:68170**
Yanovich, D. A. *see* **Gerdt, Vladimir P.**
Yao, Fan Hua *see* **Yang, Ting Li**, **2004a:68170**
Zhang, Yang[2] *see* **Giesbrecht, Mark**, (**2004j:68018**)
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Backelin, Jörgen (*with* Cojocaru, Svetlana; Ufnarovskiĭ, V. A.) The computer algebra package Bergman: current state. (English summary) **2004m:16063**
Baines, Rosemary (*with* Vámos, Peter) An algorithm to compute the set of characteristics of a system of polynomial equations over the integers. (English summary) **2004f:13033**
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Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie-Françoise) ★ Algorithms in real algebraic geometry. **2004g:14064**
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(Baumgartner, Peter) *see* **First order theorem proving**
Bayer, Thomas An algorithm for computing invariants of linear actions of algebraic groups up to a given degree. (English summary) **2004c:13045**
Bayram, Mustafa Application of computer algebra matrix operation techniques to the control of metabolic networks. (English summary)
— *see also* **Çelik, Ercan**, **2004k:65124**
Bellia, Marco (*with* Occhiuto, M. Eugenia) N-axioms parallel unification. (English summary) **2004i:68192**
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Bouziane, Driss (*with* Kandri Rody, Abdelilah) On the resolvent of an ideal and some applications. (English summary) **2004m:13070**
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Bronstein, Manuel (*with* Lafaille, Sébastien) Solutions of linear ordinary differential equations in terms of special functions. (English summary) **2004m:34006**
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Bücker, H. Martin *see* **Bischof, Christian H. et al., 2004m:65030**

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Butkovič, Peter *see* **Cuninghame-Green, Ray A., 2004b:15006**

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Campillo-López, Antonio *see* **Briales-Morales, Emilio et al., 2004k:13018**

Cano Torres, José María *see* **Aroca, F. et al., (2004j:68018)**

Carminati, John *see* **Vu, Khai, 2004a:83043**

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Chionh, Eng-Wee *see* **Foo, Mao-Ching, 2004k:15015**

Chtcherba, Arthur D. (*with* Kapur, Deepak) Exact resultants for corner-cut unmixed multivariate polynomial systems using the Dixon formulation. (English summary) **2004i:12012**

Cluzeau, Thomas (*with* Hubert, Evelyne) Resolvent representation for regular differential ideals. (English summary) **2004e:12005**

Cojocaru, Svetlana *see* **Backelin, Jörgen et al., 2004m:16063**

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Cuninghame-Green, Ray A. (*with* Butkovič, Peter) The equation $A \otimes x = B \otimes y$ over $(\max, +)$. (English summary) **2004b:15006**

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Davenport, James H. The geometry of $\mathbb{C}^n$ is important for the algebra of elementary functions. (English summary) **2004i:33038**

Degtyarëv, Anatoliĭ Ivanovich (*with* Nieuwenhuis, Robert; Voronkov, Andrei) Stratified resolution. (English summary) **2004g:68149**

Della Dora, Jean (*with* Maignan, Aude; Mirica-Ruse, Mihaela; Yovine, Sergio) Hybrid computation. (English summary) (*see* **2004j:68016**)

Dickenstein, Alicia (*with* Emiris, Ioannis Z.) Multihomogeneous resultant formulae by means of complexes. (English summary) **2004h:13029**

Dumas, Jean-Guillaume (*with* Heckenbach, Frank; Saunders, B. David; Welker, Volkmar) Computing simplicial homology based on efficient Smith normal form algorithms. (English summary) **2004i:55009**

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Emiris, Ioannis Z. Discrete geometry for algebraic elimination. (English summary) **2004k:14114**

— *see also* **Dickenstein, Alicia, 2004h:13029** *and* **D'Andrea, Carlos, 2004k:65033**

Fachin, M. P. *see* **Loreto, A. B. et al.**

Fernandes, Cristina G. (*with* Green, Edward L.[1]; Mandel, Arnaldo) From monomials to words to graphs. (English summary) **2004m:20107**

Foo, Mao-Ching (*with* Chionh, Eng-Wee) Corner edge cutting and Dixon $\mathscr{A}$-resultant quotients. (English summary) **2004k:15015**

Fortuna, Elisabetta (*with* Gianni, Patrizia; Parenti, Paola; Traverso, Carlo) Algorithms to compute the topology of orientable real algebraic surfaces. (English summary) **2004j:14066**

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Gaillard, Philippe *see* **Boucher, Delphine et al., 2004m:34201**

Gao, Xiao-Shan *see* **Wang, Ji Min**

von zur Gathen, Joachim Irreducible trinomials over finite fields. (English summary) (*see* **2004j:68016**)

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Gentilini, Raffaella (*with* Piazza, Carla; Policriti, Alberto) From bisimulation to simulation: coarsest partition problems. (English summary) **2004j:68114**

Georgieva, Lilia (*with* Hustadt, Ullrich; Schmidt, Renate A.) Hyperresolution for guarded formulae. (English summary) **2004g:03021**

Gianni, Patrizia *see* **Fortuna, Elisabetta et al., 2004j:14066**

Giesbrecht, Mark (*with* Kaltofen, Erich; Lee, Wen-shin) Algorithms for computing sparsest shifts of polynomials in power, Chebyshev and Pochhammer bases. (English summary) **2004e:13041**

Gil, Amparo (*with* Segura, Javier) A combined symbolic and numerical algorithm for the computation of zeros of orthogonal polynomials and special functions. (English summary) **2004g:33042**

Giorgi, Pascal (*with* Jeannerod, Claude-Pierre; Villard, Gilles) On the complexity of polynomial matrix computations. (English summary) (*see* **2004j:68018**)

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de Graaf, Willem A. Constructing canonical bases of quantized enveloping algebras. (English summary) **2004a:17019**

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(Grabmeier, Johannes) *see* **Handbook: Computer algebra, 2004h:68001**

(Grayson, Daniel R.) *see* **Computations in algebraic geometry with Macaulay 2, 2004b:14002**

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Havas, George (*with* Ramsay, Colin) Breadth-first search and the Andrews-Curtis conjecture. (English summary) **2004a:20032**

Heckenbach, Frank *see* **Dumas, Jean-Guillaume et al., 2004i:55009**

Heintz, J. *see* **Castro, D. et al., 2004k:68056**

Heuberger, Clemens (*with* Prodinger, Helmut) Carry propagation in signed digit representations. (English summary) **2004a:68172**

Hillar, Christopher J. Logarithmic derivatives of solutions to linear differential equations. (English summary) **2004m:34202**

van Hoeij, Mark (*with* Monagan, Michael) A modular GCD algorithm over number fields presented with multiple extensions. (English summary) (*see* **2004j:68017**)

Hu, Zhenjiang *see* **Yokoyama, Tetsuo et al., 2004k:68029**

Hubert, Evelyne (*with* Le Roux, Nicolas) Computing power series solutions of a nonlinear PDE system. (English summary) (*see* **2004j:68018**)

— *see also* **Cluzeau, Thomas, 2004e:12005**

Huet, Gérard Linear contexts, sharing functors: techniques for symbolic computation.

Hustadt, Ullrich *see* **Georgieva, Lilia et al., 2004g:03021**

Hydon, Peter E. *see* **Mansfield, Elizabeth L., 2004m:34024**

Jarrah, Abdul Salam (*with* Laubenbacher, Reinhard; Romanovskiĭ, V. G.) The Sibirsky component of the center variety of polynomial differential systems. (English summary) **2004d:34065**

Jeannerod, Claude-Pierre *see* **Giorgi, Pascal et al., (2004j:68018)**

Jebelean, Tudor *see* **Piroi, Florina**

Jibetean, Dorina *see* **Hanzon, Bernard, 2004g:90105**

Kaltofen, Erich (*with* Lee, Wen-shin) Early termination in sparse interpolation algorithms. (English summary) **2004k:13047**

— *see also* **Giesbrecht, Mark et al., 2004e:13041** *and* **Handbook: Computer algebra, 2004h:68001**

Kandri Rody, Abdelilah *see* **Bouziane, Driss, 2004m:13070**

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Kauffman, Louis H. *see* **Lomonaco, Samuel J., Jr., 2004k:81097**

Khetan, Amit The resultant of an unmixed bivariate system. (English summary) **2004g:13027**

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Kopuzlu, Abdullah *see* **Ugur, Tamer, 2004a:57013**

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Kuhlmann, Franz-Viktor (*with* Lombardi, Henri; Perdry, Hervé) Dynamic computations inside the algebraic closure of a valued field. (English summary) **2004j:12010**

Lafaille, Sébastien *see* **Bronstein, Manuel, 2004m:34006**

Laita, Luis M. *see* **Roanes Lozano, E. et al., 2004i:03020**

Lambán Pardo, Laureano A. (*with* Pascual, Vico; Rubio Garcia, Julio Jesús) An object-oriented interpretation of the EAT system. (English summary) **2004i:68143**

Lambe, Larry A. (*with* Seiler, Werner M.) Differential equations, Spencer cohomology, and computing resolutions. (English summary) **2004b:58024**

Lang, Bruno *see* **Bischof, Christian H. et al., 2004m:65030**

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Lascoux, Alain (*with* Pragacz, Piotr) Double Sylvester sums for subresultants and multi-Schur functions. (English summary) **2004m:13075**

Lau, Edmond S. C. *see* **Kotsireas, Ilias S., (2004m:00010)**

Laubenbacher, Reinhard *see* **Jarrah, Abdul Salam et al., 2004d:34065**

Le, H. Q. *see* **Abramov, Sergei A., 2004h:33043**

Lee, Wen-shin *see* **Giesbrecht, Mark et al., 2004e:13041** *and* **Kaltofen, Erich, 2004k:13047**

Leeming, Mark *see* **Bush, M. R. et al., 2004a:18001**

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Maignan, Aude *see* **Della Dora, Jean et al., (2004j:68016)**

Mandel, Arnaldo *see* **Fernandes, Cristina G. et al., 2004m:20107**

Mansfield, Elizabeth L. (*with* Hydon, Peter E.) Towards approximations which preserve integrals. (English summary) **2004m:34024**

Marinari, Maria Grazia *see* **Alonso, María Emilia et al., 2004b:13029**
Matera, G. *see* **Castro, D. et al., 2004k:68056**
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Minimair, Manfred Sparse resultant under vanishing coefficients. (English summary) **2004g:13028**
Mirica-Ruse, Mihaela *see* **Della Dora, Jean et al., (2004j:68016**)
Mitichkina, A. M. Implementation of an algorithm for finding analyticity conditions for the solution of a difference equation. (Russian. Russian summary) **2004g:39004**
Monagan, Michael *see* **van Hoeij, Mark, (2004j:68017**) *and* **Mulholland, Jamie, (2004j:68016**)
Mora, Teo *see* **Alonso, María Emilia et al., 2004b:13029**
Moreno-Frías, M. Angeles *see* **Castro-Jiménez, Francisco Jesús, 2004e:13039** *and* **2004m:13068**
Moreno Maza, Marc *see* **Foursov, Mikhail V., (2004j:68016**)
Mourrain, Bernard (*with* Pan, Victor Y.; Ruatta, O.) Accelerated solution of multivariate polynomial systems of equations. (English summary) **2004b:65072**
Mulholland, Jamie (*with* Monagan, Michael) Algorithms for trigonometric polynomials. (English summary) (*see* **2004j:68016**)
Nabeshima, Katsusuke *see* **Sato, Yosuke et al., (2004m:00010**)
Narendran, Paliath *see* **Kapur, Deepak et al.**
Navarro, R. M. *see* **Camacho, L. M. et al., 2004a:17011**
Necula, Ioana *see* **González-Vega, Laureano**
Negrón, M. M. *see* **Loreto, A. B. et al.**
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Nieuwenhuis, Robert *see* **Degtyarëv, Anatoliĭ Ivanovich et al., 2004g:68149**
Occhiuto, M. Eugenia *see* **Bellia, Marco, 2004i:68192**
Olivieri, Aurora A. (*with* del Río, Angel) An algorithm to compute the primitive central idempotents and the Wedderburn decomposition of a rational group algebra. (English summary) **2004k:16073**
Pan, Victor Y. Univariate polynomials: nearly optimal algorithms for factorization and rootfinding. (English summary) (*see* **2004j:68016**)
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Pankrat′ev, E. V. Standard bases in differential algebra. (Russian. Russian summary) **2004m:12010**
Pardo, L. M. *see* **Castro, D. et al., 2004k:68056** *and* **Symposium: Symbolic and Algebraic Computation**
Parenti, Paola *see* **Fortuna, Elisabetta et al., 2004j:14066**
Pascual, Vico *see* **Lambán Pardo, Laureano A. et al., 2004i:68143**
Pemmaraju, Sriram (*with* Skiena, Steven) ★ Computational discrete mathematics. **2004j:05002**
Perdry, Hervé *see* **Kuhlmann, Franz-Viktor et al., 2004j:12010**
Petkovšek, Marko *see* **Abramov, Sergei A., 2004i:33037**
Piazza, Carla *see* **Gentilini, Raffaella et al., 2004j:68114**
Pichler, Reinhard On the complexity of equational problems in CNF. (English summary) **2004h:68049**
Piroi, Florina (*with* Jebelean, Tudor) Advanced proof presentation in *Theorema*. (English summary)
Pisón-Casares, Pilar *see* **Briales-Morales, Emilio et al., 2004k:13018**
Policriti, Alberto *see* **Gentilini, Raffaella et al., 2004j:68114**
Pollack, Randy *see* **Coquand, Thierry et al., (2004j:68021**)
Pollack, Richard M. *see* **Basu, Saugata et al., 2004g:14064**
Portugal, Renato *see* **Rutz, Solange F., 2004d:53091**
Praeger, Cheryl E. *see* **Niemeyer, Alice C., (2004d:68050**)
Pragacz, Piotr *see* **Lascoux, Alain, 2004m:13075**
Prodinger, Helmut *see* **Heuberger, Clemens, 2004a:68172**
Ramsay, Colin *see* **Havas, George, 2004a:20032**
Ranise, Silvio *see* **Armando, Alessandro, 2004g:68069**
Reitzinger, Stefan *see* **Langer, Ulrich[1] et al., 2004m:65181**
Riazanov, Alexandre (*with* Voronkov, Andrei) Limited resource strategy in resolution theorem proving. (English summary) **2004g:68152**
Richard-Jung, Françoise *see* **Aroca, F. et al., (2004j:68018**)
del Río, Angel *see* **Olivieri, Aurora A., 2004k:16073**
Rioboo, Renaud Towards faster real algebraic numbers. (English summary) **2004f:11149**
Roanes Lozano, E. (*with* Laita, Luis M.; Roanes Macías, E.) Effective calculations in Boolean propositional logic interpreted as a (polynomial) residue class ring over $\mathbb{Z}_2$. (Spanish. English summary) **2004i:03020**
Roanes Macías, E. *see* **Roanes Lozano, E. et al., 2004i:03020**
Robu, Judit Systematic exploration of geometric configurations using *Theorema* based on *Mathematica*. (English summary) **2004k:68148**
Rodríguez Garcia, Isabel M. *see* **Camacho, L. M. et al., 2004a:17011**
Romanovskiĭ, V. G. *see* **Jarrah, Abdul Salam et al., 2004d:34065**
Roy, Marie-Françoise *see* **Basu, Saugata et al., 2004g:14064**
Ruatta, O. *see* **Mourrain, Bernard et al., 2004b:65072**
Rubio García, Julio Jesús *see* **Lambán Pardo, Laureano A. et al., 2004i:68143**
Rutz, Solange F. (*with* Portugal, Renato) FINSLER: a computer algebra package for Finsler geometries. (English summary) **2004d:53091**
Sabadini, Irene (*with* Struppa, Daniele C.) Computational algebraic analysis methods in Clifford analysis. (English summary) **2004a:30046**
Salvy, Bruno *see* **Meunier, Ludovic, (2004j:68018**)
Sato, Yosuke (*with* Suzuki, Akira) Discrete comprehensive Gröbner bases. (English summary) (*see* **2004j:68016**)
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Saunders, B. David *see* **Dumas, Jean-Guillaume et al., 2004i:55009**
Schaub, Torsten (*with* Wang, Kewen) A semantic framework for preference handling in answer set programming. (English summary) **2004i:68030**
Schicho, Josef *see* **Langer, Ulrich[1] et al., 2004m:65181**
Schmidt, Renate A. *see* **Georgieva, Lilia et al., 2004g:03021**
Schmidt-Schauß, Manfred A decision algorithm for stratified context unification. (English summary) **2004j:03018**
Schwarzweller, Christoph Designing mathematical libraries based on requirements for theorems. (English summary)
Sedjelmaci, Sidi Mohammed On a parallel Lehmer-Euclid GCD algorithm. (English summary) (*see* **2004j:68016**)
Segura, Javier *see* **Gil, Amparo, 2004g:33042**
Seiler, Werner M. *see* **Lambe, Larry A., 2004b:58024**
Shen, Jian Hua *see* **Liu, Jin Wang et al.**
Sirendaoerji (*with* Sun, Jiong) Auxiliary equation method for solving nonlinear partial differential equations. (English summary) **2004b:35043**
Skiena, Steven *see* **Pemmaraju, Sriram, 2004j:05002**
Sofroniou, Mark (*with* Spaletta, Giulia) Computer generation of numerical methods for ordinary differential equations. (English summary) (*see* **2004h:65007**)
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Sommese, Andrew J. (*with* Verschelde, Jan; Wampler, Charles W.) A method for tracking singular paths with application to the numerical irreducible decomposition. (English summary) **2004b:65073**
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68W35 VLSI algorithms

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68W40 Analysis of algorithms [see also 68Q25]

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Morin, Pat *see* **Devroye, Luc, 2004c:68167**
Mydlarz, Marcelo *see* **Feuerstein, Esteban et al., 2004i:68255**
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Neininger, Ralph *see* **Devroye, Luc, 2004i:68253**
Ngan, Tsuen-Wan *see* **Koo, Chiu-Yuen et al., 2004i:68258**
Noga, John *see* **Frederiksen, Jens S. et al., 2004f:68192**
de Paepe, Willem E. *see* **Krumke, Sven Oliver et al., 2004c:68170**
Pan, Victor Y. *see* **Wang, Xinmao, 2004a:68173**
Panholzer, Alois Analysis of multiple quickselect variants. (English summary) **2004c:68173**
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Petit, Jordi *see* **Díaz, Josep et al., 2004b:68199**
Poensgen, Diana *see* **Krumke, Sven Oliver et al., 2004c:68170**
Prodinger, Helmut *see* **Heuberger, Clemens, 2004a:68172**
Rahul, Hariharan S. *see* **Iyer, Raj D., Jr. et al.**
Richa, Andréa W. *see* **Mitzenmacher, Michael et al., 2004c:68171**
Ron, Dana *see* **Parnas, Michal et al., 2004h:68159**
Rubinfeld, Ronitt *see* **Parnas, Michal et al., 2004h:68159**
Sadakane, Kunihiko *see* **Hon, Wing-Kai**
Santini, Massimo *see* **Boldi, Paolo et al., 2004c:68165**
Schäfer, Guido *see* **Mehlhorn, Kurt, 2004d:68190**
Serna, Maria José *see* **Díaz, Josep et al., 2004b:68199**
Sitaraman, Ramesh *see* **Mitzenmacher, Michael et al., 2004c:68171**
Smyth, William F. *see* **Franěk, František et al., 2004e:68126**
Smythe, R. T. (*with* Wellner, Jon A.) Asymptotic analysis of (3, 2, 1)-shell sort. (English summary) **2004m:68299**
Soufiane, Ayad *see* **Nakamura, Ryozo et al., 2004c:68172**
Stiegeler, Patrick *see* **Edelkamp, Stefan, 2004c:68168**
St. John, Katherine (*with* Warnow, Tandy; Moret, Bernard M. E.; Vawter, Lisa) Performance study of phylogenetic methods: (unweighted) quartet methods and neighbor-joining. (English summary) **2004g:68209**
Stougie, Leen *see* **Krumke, Sven Oliver et al., 2004c:68170** *and* **Feuerstein, Esteban et al., 2004i:68255**
Tate, Stephen R. (*with* Xu, Ke) General-purpose spatial decomposition algorithms: experimental results. (English summary)
Thorup, Mikkel *see* **Iyer, Raj D., Jr. et al.**

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To, Kar-Keung *see* **Koo, Chiu-Yuen et al.**, 2004i:68258
Toma, Laura *see* **Arge, Lars et al.**
Toscani, L. V. *see* **Loreto, A. B. et al.**
Tsai, Tsung-Hsi *see* **Chern, Hua-Huai et al.**, 2004b:68197
Tsai, Ying Teh The constrained longest common subsequence problem. (English summary) **2004i:68259**
Uthaisombut, Patchrawat *see* **Frederiksen, Jens S. et al.**, 2004f:68192
Vawter, Lisa *see* **St. John, Katherine et al.**, 2004g:68209
Vigna, Sebastiano *see* **Boldi, Paolo et al.**, 2004c:68165
Vitter, Jeffrey Scott *see* **Arge, Lars et al.**
Wang, Lusheng *see* **Deng, Xiao-Tie et al.**, 2004b:68198
Wang, Xinmao (*with* Pan, Victor Y.) Acceleration of Euclidean algorithm and rational number reconstruction. (English summary) **2004a:68173**
Warnow, Tandy *see* **St. John, Katherine et al.**, 2004g:68209
Weigt, Martin *see* **Hartmann, Alexander K.**, 2004k:68187
Wellner, Jon A. *see* **Smythe, R. T.**, 2004m:68299
Wen, Zhong Hua An algorithm for the weighing-ball problem. (Chinese. English and Chinese summaries)
Wong, Prudence W. H. *see* **Chan, Wun-Tat et al.**, (2004j:68002)
Xiao, Xiangdong *see* **Franěk, František et al.**, 2004e:68126
Xu, Ke *see* **Tate, Stephen R.**
Yao, Xin *see* **He, Jun**, 2004c:68169
Yor, Marc *see* **Chassaing, Philippe et al.**, 2004j:68202
Zwick, Uri *see* **Cohen, Edith et al.**, 2004g:68207

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Alon, Noga A simple algorithm for edge-coloring bipartite multigraphs. (English summary) **2004a:05146**
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Arkin, Esther M. *see* **Sztainberg, Marcelo O. et al.**
Arslan, Abdullah N. (*with* Eğecioğlu, Ömer) Dictionary look-up within small edit distance. (English summary)
Aurenhammer, Franz *see* **Aichholzer, Oswin et al.**, 2004k:68165
Awerbuch, Baruch (*with* Azar, Yossi; Regev, Oded) Maximizing job benefits on-line. (English summary) **2004i:90032**
Azar, Yossi *see* **Awerbuch, Baruch et al.**, 2004i:90032 *and* **Adler, Ran**, 2004j:68026
Bakhanovich, S. V. (*with* Likhoded, N. A.) Space-time mapping of algorithms that is based on the Karp-Miller-Winograd decomposition. (Russian. English and Russian summaries) **2004i:68245**
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Bender, Michael A. *see* **Sztainberg, Marcelo O. et al.**
Benoist, Emmanuel (*with* Hébrard, Jean-Jacques) Recognition of simple enlarged Horn formulas and simple extended Horn formulas. (English summary) **2004d:68140**
Bhatia, Randeep *see* **Sinha, Rakesh K. et al.**, 2004d:68031
Biere, Armin *see* **Plaisted, David A. et al.**, 2004i:68088
Biswas, Rupak *see* **Oliker, Leonid et al.**, 2004a:65055
Björklund, Andreas (*with* Husfeldt, Thore) Finding a path of superlogarithmic length. (English summary)
Bogliolo, Alessandro *see* **Freschi, Valerio**, 2004m:68271
Boros, Endre (*with* Horiyama, Takashi; Ibaraki, Toshihide; Makino, Kazuhisa; Yagiura, Mutsunori) Finding essential attributes from binary data. (English summary) **2004j:68151**
Boyar, Joan (*with* Favrholdt, Lene M.; Larsen, Kim S.; Nielsen, Morten N.) Extending the accommodating function. (English summary)
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Braß, Peter *see* **Aichholzer, Oswin et al.**, 2004k:68165
Brehob, Mark (*with* Enbody, Richard; Torng, Eric; Wagner, Stephen K.) On-line restricted caching. (English summary) **2004j:68024**
Brejová, Broňa (*with* Brown, Daniel Gregory; Vinař, Tomáš) Optimal spaced seeds for hidden Markov models, with application to homologous coding regions. (English summary)
Brown, Daniel Gregory *see* **Brejová, Broňa et al.**
Buchsbaum, Adam L. (*with* Giancarlo, Raffaele; Westbrook, Jeffery R.) On finding common neighborhoods in massive graphs. (English summary) **2004j:68073**
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Butman, Ayelet *see* **Amir, Amihood et al.**
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Cantone, D. (*with* Cincotti, Gianluca) QuickHeapsort, an efficient mix of classical sorting algorithms. (English summary) **2004e:68020**
(Cattell, Kevin) *see* **Sawada, Joe**, 2004a:17004
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Chashkin, A. V. Average time of computing Boolean operators. (English summary)
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Chen, Wei-Mei (*with* Hwang, Hsien-Kuei; Tsai, Tsung-Hsi) Efficient maxima-finding algorithms for random planar samples. (English summary) **2004i:68225**
Chen, Zhi-Zhong (*with* He, Xin[1]; Kao, Ming-Yang) Common-face embeddings of planar graphs. (English summary) **2004b:05189**
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Chien, Steve (*with* Rasmussen, Lars; Sinclair, Alistair) Clifford algebras and approximating the permanent. (English summary) **2004m:68280**
Chin, Francis Y. L. (*with* De Santis, Alfredo; Ferrara, Anna Lisa; Ho, N. L.; Kim, Sung Kwon) A simple algorithm for the constrained sequence problems. (English summary) **2004m:68270**
Chowdhury, Rezaul Alam *see* **Ahmed, Mustaq et al.**, 2004d:68172
Church, Kenneth W. *see* **Amir, Amihood et al.**, 2004k:68174
Cincotti, Gianluca *see* **Cantone, D.**, 2004e:68020
Coffman, E. G., Jr. *see* **Baryshnikov, Yu. M. et al.**, 2004i:68236
Cole, Richard (*with* Hariharan, Ramesh) Tree pattern matching to subset matching in linear time. (English summary) **2004i:68078**
— (*with* Hariharan, Ramesh) Faster suffix tree construction with missing suffix links. (English summary) **2004j:68185**
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Cooperman, Gene (*with* Grinberg, Victor) Scalable parallel coset enumeration using bulk definition. (English summary) (*see* **2004j:68016**)
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Creignou, Nadia (*with* Daudé, Hervé) Generalized satisfiability problems: minimal elements and phase transitions. (English summary) **2004d:68055**
Crescenzi, Pierluigi (*with* Del Lungo, Alberto; Grossi, Roberto; Lodi, Elena; Pagli, Linda; Rossi, Gianluca) Text sparsification via local maxima. (English summary) **2004f:68179**
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— (*with* Stefanov, Valeri T.) Waiting time and complexity for matching patterns with automata. (English summary) **2004d:68173**
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Daescu, Ovidiu *see* **Chen, Danny Z. et al.**, 2004m:68088
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Damaschke, Peter Point placement on the line by distance data. (English summary) **2004e:92020**
Dar, Emanuel *see* **Amir, Amihood et al.**, 2004k:68174
Dar, Seannie *see* **Alon, Noga et al.**, 2004h:68052
Das, Sandip *see* **Roy, Sasanka et al.**, 2004j:68198
Daudé, Hervé *see* **Creignou, Nadia**, 2004d:68055
Deconinck, Geert *see* **De Florio, Vincenzo**

De Florio, Vincenzo (*with* Deconinck, Geert) A formal model and an algorithm for generating the permutations of a multiset. (English summary)
Dehne, Frank (*with* Dittrich, Wolfgang; Hutchinson, David Alexander) Efficient external memory algorithms by simulating coarse-grained parallel algorithms. (English summary) **2004k:68179**
Del Lungo, Alberto *see* **Crescenzi, Pierluigi et al., 2004f:68179**
Derisavi, Salem (*with* Hermanns, Holger; Sanders, William H.) Optimal state-space lumping in Markov chains. (English summary) **2004g:68055**
De Santis, Alfredo *see* **Chin, Francis Y. L. et al., 2004m:68270**
Dittrich, Wolfgang *see* **Dehne, Frank et al., 2004k:68179**
Dubhashi, Devdatt (*with* Sen, Sandeep) Concentration of measure for randomized algorithms: techniques and analysis. **2004b:68184**
Dulucq, Serge (*with* Tichit, Laurent) RNA secondary structure comparison: exact analysis of the Zhang-Shasha tree edit algorithm. (English summary) **2004h:68055**
Eğecioğlu, Ömer *see* **Arslan, Abdullah N.**
Enbody, Richard *see* **Brehob, Mark et al., 2004j:68024**
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— Bin stretching revisited. (English summary) **2004a:68026**
— (*with* Imreh, Csanád; van Stee, Rob) More on weighted servers or FIFO is better than LRU. (English summary) **2004g:68058**
— *see also* **Seiden, Steven S. et al., 2004e:68042**
Faber, Vance *see* **Barrett, Christopher L. et al., 2004d:68179**
Fakotakis, Nikos D. *see* **Sgarbas, Kyriakos N. et al., 2004d:68022**
Favrholdt, Lene M. *see* **Boyar, Joan et al., 2004g:68043** *and* **Epstein, Leah**
Feige, Uriel (*with* Halldórsson, Magnús M.; Kortsarz, Guy; Srinivasan, Aravind) Approximating the domatic number. (English summary) **2004d:05139**
Fernández-Baca, David (*with* Lagergren, Jens) A polynomial-time algorithm for near-perfect phylogeny. (English summary) **2004i:68080**
— *see also* **Sun, Fangting et al.**
Ferrara, Anna Lisa *see* **Chin, Francis Y. L. et al., 2004m:68270**
Fischer, Herbert Algorithmic differentiation with intervals. (English summary) **2004g:65062**
Flaxman, Abraham A spectral technique for random satisfiable 3CNF formulas. (English summary) (*see* **2004a:68002**)
Frederiksen, Jens S. (*with* Larsen, Kim S.) Packet bundling. (English summary)
Fredriksson, Kimmo (*with* Navarro, Gonzalo; Ukkonen, Esko) Optimal exact and fast approximate two dimensional pattern matching allowing rotations. (English summary)
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Freschi, Valerio (*with* Bogliolo, Alessandro) Longest common subsequence between run-length-encoded strings: a new algorithm with improved parallelism. (English summary) **2004m:68271**
Frigioni, Daniele (*with* Marchetti-Spaccamela, Alberto; Nanni, Umberto) Fully dynamic shortest paths in digraphs with arbitrary arc weights. (English summary) **2004j:05116**
Fu, Wei (*with* Hon, Wing-Kai; Sung, Wing-Kin) On all-substrings alignment problems. (English summary)
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Gamarnik, David *see* **Coppersmith, Don et al., (2004a:68002)**
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Giancarlo, Raffaele *see* **Buchsbaum, Adam L. et al., 2004j:68073**
Glentis, George-Othon Implementation of adaptive generalized sidelobe cancellers using efficient complex valued arithmetic. (English summary)
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— (*with* Taksa, Isak) Mathematical complexity of ranking similar documents retrieved by search engines on the web. (English summary) **2004m:68037**
Goldman, Sally A. (*with* Scott, Stephen D.) Multiple-instance learning of real-valued geometric patterns. (English summary) **2004j:68086**
Goldreich, Oded *see* **Alon, Noga et al., 2004g:68192**
Goldwasser, Michael H. Patience is a virtue: the effect of slack on competitiveness for admission control. (English summary) **2004m:90042**
Goodrich, Michael T. (*with* Tamassia, Roberto) Simplified analyses of randomized algorithms for searching, sorting, and selection. (English summary) **2004a:68015**
— *see also* **Buchsbaum, Adam L., 2004m:68253**
Goswami, Partha P. *see* **Roy, Sasanka et al., 2004j:68198**
Gramm, Jens (*with* Guo, Jiong; Niedermeier, Rolf) Pattern matching for arc-annotated sequences. (English summary) (*see* **2004j:68011**)
Grinberg, Victor *see* **Cooperman, Gene, (2004j:68016)**
Grossi, Roberto *see* **Crescenzi, Pierluigi et al., 2004f:68179**
Guo, Hao (*with* Long, Gui-Lu; Li, Feng) Quantum algorithms for some well-known NP problems. (English summary) **2004h:68038**
Guo, Jiong *see* **Gramm, Jens et al., (2004j:68011)**
Gusev, V. D. (*with* Nemytikova, L. A.) Taking into account repetitions, symmetry, and isomorphism in symbolic sequences: algorithmic aspects. (Russian. Russian summary)
— *see also* **Bakhmutova, I. V. et al.**
Hajiaghayi, Mohammad Taghi *see* **Coppersmith, Don et al., (2004a:68002)**
Halldórsson, Magnús M. *see* **Feige, Uriel et al., 2004d:05139**
Hambrusch, Susanne E. (*with* Liu, Chuan-Ming; Lim, Hyeong-Seok) Clustering in trees: optimizing cluster sizes and number of subtrees. (English summary) **2004g:68189**
Hancart, Christophe *see* **Crochemore, Maxime et al., 2004i:68240**
Hariharan, Ramesh *see* **Cole, Richard, 2004i:68078; 2004j:68185** *and* **Amir, Amihood et al., 2004m:68269**
He, Xin[1] *see* **Chen, Zhi-Zhong et al., 2004b:05189**
Hébrard, Jean-Jacques *see* **Benoist, Emmanuel, 2004d:68140**
Helvig, C. S. (*with* Robins, Gabriel; Zelikovsky, Alexander) The moving-target traveling salesman problem. (English summary) **2004m:90175**
Hemasinha, Rohan An algorithm to generate tournament score sequences. (English summary) **2004b:05093**
Hemaspaandra, Lane A. (*with* Torenvliet, Leen) ★ Theory of semi-feasible algorithms. (English summary) **2004g:68048**
Hermanns, Holger *see* **Derisavi, Salem et al., 2004g:68055**
Hicks, Gregory *see* **Barrett, Christopher L. et al., 2004d:68179**
Hinrichs, Klaus H. *see* **Vahrenhold, Jan, 2004d:68169**
Hitczenko, Paweł ★ Probabilistic analysis of sorting algorithms.
Ho, N. L. *see* **Chin, Francis Y. L. et al., 2004m:68270**
Hochbaum, Dorit S. Efficient algorithms for the inverse spanning-tree problem. (English summary) **2004j:90135**
(Holub, Jan) *see* **Conference: Stringology**
Hon, Wing-Kai *see* **Fu, Wei et al.**
Horiyama, Takashi *see* **Boros, Endre et al., 2004j:68151**
Hota, Mrinmoy (*with* Pal, Madhumangal; Pal, Tapan K.) Optimal sequential and parallel algorithms to compute all cut vertices on trapezoid graphs. (English summary) **2004j:68143**
Hu, Xiaobo *see* **Chen, Danny Z. et al., 2004m:68088**
Husbands, Parry *see* **Oliker, Leonid et al., 2004a:65055**
Husfeldt, Thore *see* **Björklund, Andreas**
Hutchinson, David Alexander *see* **Dehne, Frank et al., 2004k:68179**
Hwang, Hsien-Kuei Second phase changes in random m-ary search trees and generalized quicksort: convergence rates. (English summary) **2004b:60065**
— *see also* **Chen, Wei-Mei et al., 2004i:68225**
Hyyrö, Heikki (*with* Navarro, Gonzalo) Faster bit-parallel approximate string matching. (English summary)
Ibaraki, Toshihide *see* **Boros, Endre et al., 2004j:68151** *and* **Suzuki, Susumu, 2004k:68072**
Iliopoulos, Costas S. *see* **Crochemore, Maxime et al.**
Imreh, Csanád *see* **Epstein, Leah et al., 2004g:68058**
Indyk, Piotr *see* **Charikar, Moses et al.**
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Iwama, Kazuo (*with* Yonezawa, Kouki) The orthogonal CNN problem. (English summary) **2004m:68052**
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Janikow, Cezary Z. *see* **Chakraborty, Uday K., 2004i:68185**
Jansson, Jesper (*with* Lingas, Andrzej) A fast algorithm for optimal alignment between similar ordered trees. (English summary) **2004k:68176**
Jelenković, Predrag *see* **Baryshnikov, Yu. M. et al., 2004i:68236**
Kan, W. K. *see* **Lau, Siu-chung et al., 2004c:68036a** *and* **2004c:68036b**
Kao, Ming-Yang *see* **Chen, Zhi-Zhong et al., 2004b:05189**
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— (*with* Navarro, Gonzalo; Ukkonen, Esko) Approximate string matching on Ziv-Lempel compressed text. (English summary) **2004j:68186**
Katajainen, Jyrki (*with* Vitale, Fabio) Navigation piles with applications to sorting, priority queues, and priority deques. (English summary)
Kawano, Sinichiro (*with* Yamazaki, Koichi) Worst case analysis of a greedy algorithm for graph thickness. (English summary) **2004a:05152**
Kaykobad, M. *see* **Ahmed, Mustaq et al., 2004d:68172**
Kim, Sung Kwon *see* **Chin, Francis Y. L. et al., 2004m:68270**
Kim, Young Hwan *see* **Sung, Chang Sup, 2004b:90046**
Kis, Tamás *see* **Kovács, András**
Koenig, Sven (*with* Tovey, Craig A.; Smirnov, Yury V.) Performance bounds for planning in unknown terrain. **2004f:68144**
Kokkinakis, George K. *see* **Sgarbas, Kyriakos N. et al., 2004d:68022**
Koo, Chiu-Yuen (*with* Lam, Tak Wah; Ngan, Tsuen-Wan; Sadakane, Kunihiko; To, Kar-Keung) On-line scheduling with tight deadlines. (English summary) **2004a:68027**
Korn, Flip *see* **Chen, Zhiyuan et al., 2004d:68026**
Kortsarz, Guy *see* **Feige, Uriel et al., 2004d:05139**
Koudas, Nick *see* **Chen, Zhiyuan et al., 2004d:68026**
Kovács, András (*with* Kis, Tamás) Partitioning of trees for minimizing height and cardinality.
Krammer, Bettina ★ Algorithmische lineare Algebra für Polynommatrizen. (German. English summary) [Algorithmic linear algebra for polynomial matrices] **2004k:68184**
Krasser, Hannes *see* **Aichholzer, Oswin et al., 2004k:68165**
Kumar, V. S. Anil (*with* Ramesh, H.) Covering rectilinear polygons with axis-parallel rectangles. (English summary) **2004m:52044**
Kutten, Shay (*with* Peleg, David; Vishkin, Uzi) Deterministic resource discovery in distributed networks. (English summary) **2004h:68008**
Kuznetsov, S. V. *see* **Romanovskiĭ, I. V., 2004d:90116**
Ladner, Richard E. *see* **Bar-Noy, Amotz**
Lagergren, Jens Combining polynomial running time and fast convergence for the disk-covering method. (English summary) **2004a:92024**
— *see also* **Fernández-Baca, David, 2004i:68080**
Lam, Tak Wah *see* **Koo, Chiu-Yuen et al., 2004a:68027**
Landau, Gad M. *see* **Amir, Amihood et al.**
La Poutré, Johannes A. *see* **van Stee, Rob, 2004i:90058**
Larsen, Kim S. Relaxed multi-way trees with group updates. (English summary) **2004i:68038**
— *see also* **Boyar, Joan et al., 2004g:68043** *and* **Frederiksen, Jens S.**
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Lau, Siu-chung (*with* Young, Gilbert H.; Kan, W. K.; Wu, Yu-Liang) On open-ends bin packing problem. (English summary) **2004c:68036a**
— (*with* Young, Gilbert H.; Kan, W. K.; Wu, Yu-Liang) On-line open-end bin packing. (English summary) **2004c:68036b**
Lavi, Ron (*with* Nisan, Noam) Competitive analysis of incentive compatible on-line auctions. (English summary) **2004i:68065**
Lecroq, Thierry *see* **Crochemore, Maxime et al., 2004i:68240**
Lemström, Kjell (*with* Tarhio, Jorma) Transposition invariant pattern matching for multi-track strings. (English summary) **2004j:68187**
Leonardi, Stefano *see* **Bocchetti, Luca et al., 2004j:90038**
Leung, Wing Kai (*with* Winfield, Mike) A complexity analysis of the backpropagation algorithm. (English summary) (*see* **2004h:00017**)
Lewenstein, Moshe *see* **Amir, Amihood et al., 2004m:68269**
Li, Feng *see* **Guo, Hao et al., 2004h:68038**
Li, Wei[3] *see* **Xu, Ke, 2004m:68104**
Li, Xiaoye S. *see* **Oliker, Leonid et al., 2004a:65055**
Liebehenschel, Jens Lexicographical generation of a generalized Dyck language. (English summary) **2004g:68126**
Likhoded, N. A. *see* **Bakhanovich, S. V., 2004i:68245**
Lim, Hyeong-Seok *see* **Hambrusch, Susanne E. et al., 2004g:68189**
Lin, Guo-Hui *see* **Gao, Yong et al.**
Lingas, Andrzej *see* **Jansson, Jesper, 2004k:68176**
Liu, Chuan-Ming *see* **Hambrusch, Susanne E. et al., 2004g:68189**
Liu, Da You[2] (*with* Liu, Ya Bo; Yin, Zhi Dong) Fast algorithm for discovering maximum frequent itemsets of association rules. (Chinese. English and Chinese summaries)
Liu, James Nga Kwok *see* **Ma, Weimin et al.**
Liu, Ya Bo *see* **Liu, Da You**[2] **et al.**
Lodi, Elena *see* **Crescenzi, Pierluigi et al., 2004f:68179**
Lomonaco, Samuel J., Jr. Shor's quantum factoring algorithm. (English summary) (*see* **2004h:81070**)
Long, Gui-Lu *see* **Guo, Hao et al., 2004h:68038**
Lueker, George S. Improved bounds on the average length of longest common subsequences. (English summary) (*see* **2004a:68002**)
Ma, Weimin (*with* Xu, Yinfeng; You, Jane; Liu, James Nga Kwok; Wang, Kanliang) New results on the k-truck problem. (English summary)
Mahmoud, Hosam M. Mixed distributions in Sattolo's algorithm for cyclic permutations via randomization and derandomization. (English summary) **2004k:60020**
Makino, Kazuhisa *see* **Boros, Endre et al., 2004j:68151**
Mansour, Yishay *see* **Alon, Noga et al., 2004g:68192**
Marathe, Achla *see* **Barrett, Christopher L. et al., 2004d:68179**
Marathe, Madhav V. *see* **Barrett, Christopher L. et al., 2004d:68179**
Marchetti-Spaccamela, Alberto *see* **Frigioni, Daniele et al., 2004j:05116**
Mayer, Alain (*with* Ostrovsky, Rafail; Ofek, Yoram; Yung, Moti) Self-stabilizing symmetry breaking in constant space. (English summary) **2004g:68191**
Métivier, Yves (*with* Saheb, Nasser; Zemmari, Akka) Analysis of a randomized rendezvous algorithm. (English summary) **2004e:68121**
Mettu, Ramgopal R. (*with* Plaxton, C. Greg) The online median problem. (English summary) **2004i:68249**
Meyer, Ulrich[2] Average-case complexity of single-source shortest-paths algorithms: lower and upper bounds. (English summary) **2004h:68105**
(Miers, C. Robert) *see* **Sawada, Joe, 2004a:17004**
Mitchell, Joseph S. B. *see* **Sztainberg, Marcelo O. et al.**
Miyazawa, F. K. (*with* Wakabayashi, Y.) Cube packing. (English summary) **2004d:68185**
Momčilović, Petar *see* **Baryshnikov, Yu. M. et al., 2004i:68236**
Mondal, Sukumar (*with* Pal, Madhumangal; Pal, Tapan K.) Optimal sequential and parallel algorithms to compute a Steiner tree on permutation graphs. (English summary) **2004d:68177**
Montoya-Torres, Jairo R. Competitive analysis of a better on-line algorithm to minimize total completion time on a single-machine. (English summary) **2004f:90053**
Morgenstern, Burkhard *see* **Abdeddaïm, Saïd, (2004j:92001)**
Müller, Martin[2] *see* **Zhou, Jianjun, 2004m:90127**
Muthukrishnan, S. Muthu *see* **Chen, Zhiyuan et al., 2004d:68026** *and* **Becchetti, Luca et al., 2004j:90038**
Nagy, Naya (*with* Akl, Selim G.) The maximum flow problem: a real-time approach. (English summary) **2004e:68119**
Nakamura, Ryozo *see* **Sun, Ningping et al.**
Nandy, Subhas C. *see* **Roy, Sasanka et al., 2004j:68198**
Nanni, Umberto *see* **Frigioni, Daniele et al., 2004j:05116**
Navarro, Gonzalo *see* **Kärkkäinen, Juha et al., 2004j:68186**; **Fredriksson, Kimmo et al.** *and* **Hyyrö, Heikki**
Neininger, Ralph (*with* Rüschendorf, Ludger) A general limit theorem for recursive algorithms and combinatorial structures. (English summary) **2004m:60046**
Nemytikova, L. A. *see* **Gusev, V. D.**
Ngan, Tsuen-Wan *see* **Koo, Chiu-Yuen et al., 2004a:68027**
Niedermeier, Rolf *see* **Gramm, Jens et al., (2004j:68011)**
Nielsen, Morten N. *see* **Boyar, Joan et al., 2004g:68043**
Niewiadomski, Robert *see* **Gao, Yong et al.**
Nikolopoulos, Stavros D. (*with* Palios, Leonidas) On the recognition of P_4-comparability graphs. (English summary)
— (*with* Palios, Leonidas) Algorithms for P_4-comparability graph recognition and acyclic P_4-transitive orientation. (English summary) **2004k:05194**
Nisan, Noam *see* **Lavi, Ron, 2004i:68065**
Nivasch, Gabriel Cycle detection using a stack. (English summary) **2004m:68272**
Noga, John *see* **Epstein, Leah et al., 2004f:90063**
Nurminen, Jukka K. Using software complexity measures to analyze algorithms—an experiment with the shortest-paths algorithms. (English summary)
Ofek, Yoram *see* **Mayer, Alain et al., 2004g:68191**
Okamoto, Seishi (*with* Yugami, Nobuhiro) Effects of domain characteristics on instance-based learning algorithms. (English summary) **2004d:68063**
Oliker, Leonid (*with* Li, Xiaoye S.; Husbands, Parry; Biswas, Rupak) Effects of ordering strategies and programming paradigms on sparse matrix computations. (English summary) **2004a:65055**
Orlin, James B. *see* **Ahuja, Ravindra K. et al., 2004j:90129**
Ostrovsky, Rafail *see* **Mayer, Alain et al., 2004g:68191**
Pach, János On the complexity of the union of geometric objects. (English summary) **2004m:68262**
Pagli, Linda *see* **Crescenzi, Pierluigi et al., 2004f:68179**
Pal, Madhumangal *see* **Mondal, Sukumar et al., 2004d:68177** *and* **Hota, Mrinmoy et al., 2004j:68143**
Pal, Tapan K. *see* **Mondal, Sukumar et al., 2004d:68177** *and* **Hota, Mrinmoy et al., 2004j:68143**
Palios, Leonidas *see* **Nikolopoulos, Stavros D., 2004k:05194**
Pallottino, Stefano *see* **Ahuja, Ravindra K. et al., 2004j:90129**
Panigrahy, Rina *see* **Charikar, Moses et al.**
Parnas, Michal (*with* Ron, Dana; Samorodnitsky, Alex) Testing basic Boolean formulae. (English summary) **2004b:68068**
— *see also* **Alon, Noga et al., 2004h:68052**
Paroissin, Christian *see* **Barrera, Javiera, 2004k:68034**
Peleg, David *see* **Kutten, Shay et al., 2004h:68008**
Peng, Rong *see* **Cui, Jing Song et al., 2004m:94042**
Plaisted, David A. (*with* Biere, Armin; Zhu, Yunshan) A satisfiability procedure for quantified Boolean formulae. (English summary) **2004i:68088**
Plandowski, Wojciech *see* **Crochemore, Maxime et al.**
Plaxton, C. Greg *see* **Mettu, Ramgopal R., 2004i:68249**
Porat, Ely *see* **Amir, Amihood et al., 2004m:68269**
Prolubnikov, A. V. An estimate for the approximate solution of the covering problem by Chvatal's algorithm. (Russian. English summary) **2004a:68166**
Pudova, M. V. On the coefficient of reduction of the complexity of some algorithms. (Russian) **2004k:90072**
Qian, Ji Xin *see* **Cai, Yan Guang et al., 2004d:68110**
Ramesh, H. *see* **Kumar, V. S. Anil, 2004m:52044**
Ranade, Abhiram G. The delay sequence argument. (English summary) **2004a:68160**
Rasmussen, Lars *see* **Chien, Steve et al., 2004m:68280**
Raz, Ran (*with* Reingold, Omer; Vadhan, Salil) Extracting all the randomness and reducing the error in Trevisan's extractors. (English summary) **2004f:68031**
Regev, Oded *see* **Awerbuch, Baruch et al., 2004i:90032**
Reingold, Omer *see* **Raz, Ran et al., 2004f:68031**
Robins, Gabriel *see* **Helvig, C. S. et al., 2004m:90175**
Roditty, Liam A faster and simpler fully dynamic transitive closure. (English summary) (*see* **2004a:68002**)
Romanovskiĭ, I. V. (*with* Kuznetsov, S. V.) Main algorithms and approaches to the solution of the k-version of minimal spanning tree problem. (English summary) **2004d:90116**
Ron, Dana *see* **Parnas, Michal et al., 2004b:68068** *and* **Alon, Noga et al., 2004h:68052**
Rossi, Gianluca *see* **Crescenzi, Pierluigi et al., 2004f:68179**
Roy, Sasanka (*with* Goswami, Partha P.; Das, Sandip; Nandy, Subhas C.) Optimal algorithm for a special point-labeling problem. (English summary) **2004j:68198**
Rubenstein, D. *see* **Baryshnikov, Yu. M. et al., 2004i:68236**
Rüschendorf, Ludger *see* **Neininger, Ralph, 2004m:60046**
Ruskey, Frank *see* **Sawada, Joe, 2004a:17004**
Rytter, Wojciech On maximal suffixes and constant-space linear-time versions of KMP algorithm. (English summary) **2004c:68156**
— *see also* **Crochemore, Maxime et al.**
Sadakane, Kunihiko *see* **Koo, Chiu-Yuen et al., 2004a:68027**
Sadecki, Jan An efficiency analysis of the parallel multitransputer implementation of two-level optimization algorithms. (English summary)
Saheb, Nasser *see* **Métivier, Yves et al., 2004e:68121**
Samorodnitsky, Alex *see* **Parnas, Michal et al., 2004b:68068**
Sanders, Peter (*with* Vöcking, Berthold) Random arc allocation and applications. (English summary)
Sanders, William H. *see* **Derisavi, Salem et al., 2004g:68055**
Saunders, Shane (*with* Takaoka, Tadao) Improved shortest path algorithms for nearly acyclic graphs. (English summary) **2004b:05194**
Sawada, Joe (*with* Ruskey, Frank) Generating Lyndon brackets. An addendum to: "Fast algorithms to generate necklaces, unlabeled necklaces and irreducible polynomials over GF(2)" [J. Algorithms **37** (2000), no. 2, 267–282; MR 2002a:05006] by K. Cattell, Ruskey, Sawada, M. Serra and C. R. Miers. (English summary) **2004a:17004**
— A fast algorithm to generate necklaces with fixed content. (English summary) **2004c:68104**
Schaps, Mary E. *see* **Amir, Amihood et al.**
Schost, Éric Complexity results for triangular sets. (English summary) **2004m:68295**
Schurr, Ingo (*with* Szabó, Tibor) Finding the sink takes some time: an almost quadratic lower bound for finding the sink of unique sink oriented cubes. (English summary) **2004m:68078**
Scott, Stephen D. *see* **Goldman, Sally A., 2004j:68086**
Scutellà, Maria Grazia *see* **Ahuja, Ravindra K. et al., 2004j:90129**
Segal, Michael Placing an obnoxious facility in geometric networks. (English summary) **2004j:90139**
Seiden, Steven S. On the online bin packing problem. (English summary)
— Barely random algorithms for multiprocessor scheduling. (English summary) **2004j:68193**
— (*with* van Stee, Rob; Epstein, Leah) New bounds for variable-sized online bin packing. (English summary) **2004e:68042**
— *see also* **Epstein, Leah et al., 2004f:90063**
Sen, Sandeep *see* **Dubhashi, Devdatt, 2004b:68184**
(Serra, Micaela) *see* **Sawada, Joe, 2004a:17004**
Sgall, Jiří *see* **Epstein, Leah et al., 2004f:90063**
Sgarbas, Kyriakos N. (*with* Fakotakis, Nikos D.; Kokkinakis, George K.) Optimal insertion in deterministic DAWGs. (English summary) **2004d:68022**
Shapiro, Jacob *see* **Goldberg, Robert R. et al.**

Sharifi Mokhtarian, Faranak A convex feasibility problem defined by a nonlinear separation oracle. (English summary) **2004e:90077**
Shen, Jian[2] (*with* Sheng, Li[1]; Wu, Jie[5]) Searching for sorted sequences of kings in tournaments. (English summary) **2004g:05071**
Sheng, Li[1] *see* **Shen, Jian[2] et al., 2004g:05071**
Sholomov, L. A. On complexity of minimization and compression problems for models of sequential choice. (English summary)
Sinclair, Alistair *see* **Chien, Steve et al., 2004m:68280**
Sinha, Rakesh K. (*with* Bhatia, Randeep; Chen, Chung-Min) Asymptotically optimal declustering schemes for 2-dim range queries. (English summary) **2004d:68031**
Smirnov, Yury V. *see* **Koenig, Sven et al., 2004f:68144**
Soisalon-Soininen, Eljas (*with* Widmayer, Peter) Amortized complexity of bulk updates in AVL-trees. (English summary)
Sorkin, Gregory B. *see* **Coppersmith, Don et al.,** (**2004a:68002**)
Spielman, Daniel A. (*with* Teng, Shang-Hua) Smoothed analysis of algorithms. (English summary) **2004d:90138**
Srinivasan, Aravind *see* **Feige, Uriel et al., 2004d:05139** *and* **Barrett, Christopher L. et al., 2004d:68179**
van Stee, Rob (*with* La Poutré, Johannes A.) Partial servicing of on-line jobs. (English summary) **2004i:90058**
— *see also* **Seiden, Steven S. et al., 2004e:68042** *and* **Epstein, Leah et al., 2004g:68058**
Stefanov, Valeri T. *see* **Crochemore, Maxime, 2004d:68173**
Stein, Esti *see* **Ben-Asher, Yosi, 2004c:68005**
Su, Zhonggen Probability limit theorems in the random assignment problem. (English summary) (*see* **2004m:60008**)
Sun, Fangting (*with* Fernández-Baca, David; Yu, Wei) Inverse parametric sequence alignment. (English summary)
Sun, Ningping (*with* Nakamura, Ryozo; Tada, Akio; Zhu, Hongbing) An analysis of the external hashing algorithm. (English summary)
Sun, You Xian *see* **Cai, Yan Guang et al., 2004d:68110**
Sung, Chang Sup (*with* Kim, Young Hwan) Minimizing due date related performance measures on two batch processing machines. (English summary) **2004b:90046**
Sung, Wing-Kin *see* **Fu, Wei et al.**
Sussmann, Yoram *see* **Barrett, Christopher L. et al., 2004d:68179**
Suzuki, Susumu (*with* Ibaraki, Toshihide) Average running time analysis of an algorithm to calculate the size of the union of Cartesian products. (English summary) **2004k:68072**
Szabó, Tibor *see* **Schurr, Ingo, 2004m:68078**
Sztainberg, Marcelo O. (*with* Arkin, Esther M.; Bender, Michael A.; Mitchell, Joseph S. B.) Analysis of heuristics for the freeze-tag problem. (English summary)
Tada, Akio *see* **Sun, Ningping et al.**
Takaoka, Tadao *see* **Saunders, Shane, 2004b:05194**
Taksa, Isak *see* **Goldberg, Robert R. et al., 2004m:68037**
Tamassia, Roberto *see* **Goodrich, Michael T., 2004a:68015**
Tarhio, Jorma *see* **Lemström, Kjell, 2004j:68187**
Teng, Shang-Hua *see* **Spielman, Daniel A., 2004d:90138**
Thornquist, Heidi *see* **Barrett, Christopher L. et al., 2004d:68179**
Tichit, Laurent *see* **Dulucq, Serge, 2004h:68055**
Titkova, T. N. *see* **Bakhmutova, I. V. et al.**
To, Kar-Keung *see* **Koo, Chiu-Yuen et al., 2004a:68027**
Tokuyama, Takeshi Efficient algorithms for the minimum diameter bridge problem. (English summary) **2004a:68149**
Torenvliet, Leen *see* **Hemaspaandra, Lane A., 2004g:68048**
Torng, Eric *see* **Brehob, Mark et al., 2004j:68024**
Tovey, Craig A. *see* **Koenig, Sven et al., 2004f:68144**
Tsai, Tsung-Hsi *see* **Chen, Wei-Mei et al., 2004i:68225**
Ukkonen, Esko *see* **Kärkkäinen, Juha et al., 2004j:68186** *and* **Fredriksson, Kimmo et al.**
Vadhan, Salil *see* **Raz, Ran et al., 2004f:68031**
Vahrenhold, Jan (*with* Hinrichs, Klaus H.) Planar point location for large data sets: to seek or not to seek. (English summary) **2004d:68169**
Vakhaniya, Nodari N. A better algorithm for sequencing with release and delivery times on identical machines. (English summary) **2004e:90045**
Vallée, Brigitte Dynamical analysis of a class of Euclidean algorithms. (English summary) **2004e:11144**
Vinař, Tomáš *see* **Brejová, Broňa et al.**
Vishkin, Uzi *see* **Kutten, Shay et al., 2004h:68008**
Vitale, Fabio *see* **Katajainen, Jyrki**
Vöcking, Berthold *see* **Sanders, Peter**
Wagner, Stephen K. *see* **Brehob, Mark et al., 2004j:68024**
Wakabayashi, Y. *see* **Miyazawa, F. K., 2004d:68185**
Wang, Kanliang *see* **Ma, Weimin et al.**
Wang, Li Na *see* **Cui, Jing Song et al., 2004m:94042**
Wang, Yang *see* **Gao, Yong et al.**
Westbrook, Jeffery R. *see* **Buchsbaum, Adam L. et al., 2004j:68073**
Weston, Mark A fixed-parameter tractable algorithm for matrix domination. (English summary)
Widmayer, Peter *see* **Soisalon-Soininen, Eljas**
Winfield, Mike *see* **Leung, Wing Kai,** (**2004h:00017**)
Wismath, Stephen K. *see* **Jackson, LillAnne, 2004b:68166**
Woeginger, Gerhard J. *see* **Epstein, Leah et al., 2004f:90063**
Wu, Jie[5] *see* **Shen, Jian[2] et al., 2004g:05071**
Wu, Junfeng *see* **Gao, Yong et al.**
Wu, Yu-Liang *see* **Lau, Siu-chung et al., 2004c:68036a** *and* **2004c:68036b**
Xu, Jinhui *see* **Chen, Danny Z. et al., 2004m:68088**
Xu, Ke (*with* Li, Wei[3]) On the average similarity degree between solutions of random k-SAT and random CSPs. (English summary) **2004m:68104**
Xu, Yinfeng *see* **Ma, Weimin et al.**
Yagiura, Mutsunori *see* **Boros, Endre et al., 2004j:68151**
Yamazaki, Koichi *see* **Kawano, Sinichiro, 2004a:05152**
Yin, Zhi Dong *see* **Liu, Da You[2] et al.**
Yonezawa, Kouki *see* **Iwama, Kazuo, 2004m:68052**
You, Jane *see* **Ma, Weimin et al.**
Young, Gilbert H. *see* **Lau, Siu-chung et al., 2004c:68036a** *and* **2004c:68036b**
Yu, Wei *see* **Sun, Fangting et al.**
Yugami, Nobuhiro *see* **Okamoto, Seishi, 2004d:68063**
Yung, Moti *see* **Mayer, Alain et al., 2004g:68191**
Zelikovsky, Alexander *see* **Helvig, C. S. et al., 2004m:90175**
Zemmari, Akka *see* **Métivier, Yves et al., 2004e:68121**
Zhang, Huan Guo *see* **Cui, Jing Song et al., 2004m:94042**
Zhang, Shu Hua[1] *see* **Lau, Francis C. M., 2004i:68007**
Zhang, Xin Zheng *see* **Cai, Yan Guang et al., 2004d:68110**
Zhou, Jianjun (*with* Müller, Martin[2]) Solving systems of difference constraints incrementally with bidirectional search. (English summary) **2004m:90127**
Zhu, Hongbing *see* **Sun, Ningping et al.**
Zhu, Yunshan *see* **Plaisted, David A. et al., 2004i:68088**

Items listed otherwise than by author

Conference:
Stringology ★ Prague Stringology Conference.

68W99 None of the above, but in this section

Müller, Martin[2] *see* **Zhou, Jianjun, 2004h:68160**
Nievergelt, Yves Scalar fused multiply-add instructions produce floating-point matrix arithmetic provably accurate to the penultimate digit. (English summary)
Vempala, Santosh The random projection method. **2004b:68200**
Vitter, Jeffrey Scott External memory algorithms. (English summary) (*see* **2004b:68001**)
Woźna, Bożena Greedy algorithms. (Polish)
Zhou, Jianjun (*with* Müller, Martin[2]) Depth-first discovery algorithm for incremental topological sorting of directed acyclic graphs. (English summary) **2004h:68160**

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Bae, Joonwoo (*with* Kwon, Younghun) Maximum speedup in quantum search: $O(1)$ running time. (English summary) **2004k:81084**
Başçiftçi, Fatih *see* **Kahramanli, Şirzat, 2004m:68095**
Broder, Andrei Z. (*with* Charikar, Moses; Mitzenmacher, Michael) A derandomization using min-wise independent permutations. (English summary) **2004j:68138**
Chao, Kun-Mao *see* **Lin, Yaw-Ling et al.**
Charikar, Moses *see* **Broder, Andrei Z. et al., 2004j:68138**
Cheng, Yiping (*with* Zheng, Da Zhong) A cycle time computing algorithm and its application in the structural analysis of min-max systems. (English summary) **2004k:93083**
Curtis, Sharon A. A generic algorithm for minimum chain partitioning. (English summary) (*see* **2004c:68004**)
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70–XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX.}

70–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Belyaev, Anatoliĭ Konstantinovich) *see* **Lur'e, A. I., 2004f:70001**
(Bromley, D. Allan) *see* **Greiner, Walter, 2004j:70001**
Caparrini, Sandro Early theories of vectors. (English summary) (*see* **2004k:70002**)
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Fetter, Alexander L. (*with* Walecka, John Dirk) ★ Theoretical mechanics of particles and continua. **2004i:70001**
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Levi, Mark Geometrical methods of mechanics. (*see* **2004g:00015**)
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Danielson, D. A. ★ Vectors and tensors in engineering and physics. **2004b:15056**
(Gloumov, V. I.) *see* **Neĭmark, Yu. I., 2004e:00006**
(Kogan, Mark M.) *see* **Neĭmark, Yu. I., 2004e:00006**
(Larmor, Joseph) *see* **Maxwell, James Clerk**
Maxwell, James Clerk ★ Matter and motion.
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70–03 Historical (must also be assigned at least one classification number from Section 01)

(Becchi, Antonio) *see* **Essays on the history of mechanics, 2004k:70002**
(Benvenuto, Edoardo) *see* **Essays on the history of mechanics, 2004k:70002**
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(Corradi, Massimo) *see* **Essays on the history of mechanics, 2004k:70002**
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Panza, Marco Mathematisation of the science of motion and the birth of analytical mechanics: a historiographical note.
— The origins of analytic mechanics in the 18th century. (*see* **2004h:01005**)
(Pedemonte, Orietta) *see* **Essays on the history of mechanics, 2004k:70002**
Roche, John What is potential energy? (English summary) **2004b:70001**
Sansò, F. The gravitational field: from Newton's apple to satellite measurements. (Italian)
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Genoa ★ Essays on the history of mechanics. **2004k:70002**

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(Angel, Leonard) *see* **Pérez Laraudogoitia, Jon, 2004g:00011**
(Beeckman, Isaac) *see* **Damerow, Peter et al., 2004m:01016**
Binz, Ernst (*with* Schempp, Walter J.) Kepplers phoronomie: symplektische spinoren. (English summary) [Kepler's phoronomy: symplectic spinors] **2004a:22019**
D'Agostino, Salvo ★ A history of the ideas of theoretical physics. **2004j:01017**
Damerow, Peter (*with* Freudenthal, Gideon; McLaughlin, Peter; Renn, Jürgen) ★ Exploring the limits of preclassical mechanics. **2004m:01016**
Davis, A. E. L. The mathematics of the area law: Kepler's successful proof in *Epitome astronomiae Copernicanae* (1621). (English summary) **2004e:01027**
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Fraser, Craig G. *see* **Nakane, Michiyo, 2004b:01025**
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Goryacheva, I. G. The research of A. Yu. Ishlinskiĭ in the field of rolling friction and its development. (Russian. Russian summary) **2004f:74069**
(Hamilton, William Rowan) *see* **Nakane, Michiyo, 2004b:01025**
(Ishlinskiĭ, Aleksandr Yul'evich) *see* **Goryacheva, I. G., 2004f:74069**
(Jacobi, Carl Gustav) *see* **Nakane, Michiyo, 2004b:01025**
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70–04 Explicit machine computation and programs (not the theory of computation or programming)

Itiki, C. (*with* Neto, J. José) Complete automation of the generalized inverse method for constrained mechanical systems of particles. (English summary) **2004m:70001**
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Ma, Qun (*with* Izaguirre, Jesús A.) Targeted mollified impulse: a multiscale stochastic integrator for long molecular dynamics simulations. (English summary) **2004m:70002**
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Hu, Hai Yan *see* **Wu, Shaobo, 2004j:34174a** *and* **Wang, Zai Hua, 2004j:34174b**
Izaguirre, Jesús A. *see* **Ma, Qun et al., 2004g:70002**
Jancart, Sylvie (*with* Lemaitre, Anne; Letocart, Vincent) The role of the inclination in the captures in external resonances in the three body problem. (English summary) **2004f:70027**
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— *see also* **Wang, Zai Hua, 2004j:34174b**
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70–05 Experimental work

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Acheson, David *see* **Mullin, Tom et al., 2004f:70053**
Champneys, A. R. *see* **Mullin, Tom et al., 2004f:70053**
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70–06 Proceedings, conferences, collections, etc.

(Awrejcewicz, Ian) *see* **Dynamical systems: theory and applications**
Burton, Thomas D. Preface [Special issue in honor of Professor Dean T. Mook on the occasion of his sixty-fifth birthday].
(Elipe Sánchez, Antonio C.) *see* **Analytic and numerical techniques in orbital dynamics, 2004d:70002**
(Kozłowski, Krzysztof) *see* **Recent developments in robotics**
(McPhee, J.) *see* **Virtual nonlinear multibody systems**
(Mook, Dean T.) *see* **Burton, Thomas D.**
(Palacios, Manuel) *see* **Analytic and numerical techniques in orbital dynamics, 2004d:70002**

(Schiehlen, Werner) *see* **Virtual nonlinear multibody systems, 2004c:70002**
(Shabana, Ahmed A.) *see* **Virtual nonlinear multibody systems**
(Tchoń, Krzysztof) *see* **Recent developments in robotics**
(Valášek, Michael) *see* **Virtual nonlinear multibody systems, 2004c:70002**

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Bad Herrenalb ★ ECMI-Workshop "Numerical Methods in Multibody Dynamics".
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(Damper, R. I.) *see* **Biologically inspired robotics**
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(Grabowski, Janusz) *see* **Classical and quantum integrability, 2004d:00024**
(Jamiołkowski, Andrzej) *see* **Proceedings: Symposium on Mathematical Physics**
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(López de Silanes, M. C.) *see* **Conference: Applied Mathematics and Statistics, 2004h:00021**
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(Marmo, Giuseppe) *see* **Classical and quantum integrability, 2004d:00024**
(Martins, J. A. C.) *see* **Friction and instabilities, 2004d:74001**
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70–08 Computational methods

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70A05 Axiomatics, foundations

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70B05 Kinematics of a particle

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70B10 Kinematics of a rigid body

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70C20 Statics

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70Exx Dynamics of a rigid body and of multibody systems

70E05 Motion of the gyroscope

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70E18 Motion of a rigid body in contact with a solid surface [see also 70F25]

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70E60 Robot dynamics and control [see also 68T40, 70Q05, 93C85]

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70Fxx Dynamics of a system of particles, including celestial mechanics

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70F15 Celestial mechanics

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70H06 Completely integrable systems and methods of integration

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70H15 Canonical and symplectic transformations

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70H25 Hamilton's principle

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70H50 Higher-order theories

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70Jxx Linear vibration theory

70J10 Modal analysis

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70K28 Parametric resonances

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70K42 Equilibria and periodic trajectories

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70K44 Homoclinic and heteroclinic trajectories

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Martín de Diego, D. *see* **Cortés, Jorge et al., 2004f:37086**
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Noailles, Joseph *see* **Caillau, Jean-Baptiste et al., 2004d:49066** *and* **2004i:70033**
Noldus, Erik *see* **Luyckx, Liesbeth et al., 2004e:93041**
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Polyakhova, E. *see* **Koblik, V. et al., 2004d:70039**
Prattichizzo, Domenico *see* **Mercorelli, Paolo, 2004i:93127**
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Ramodanov, S. M. *see* **Kozlov, Valeriĭ V., 2004b:76041**
Ramos, Arturo *see* **Cariñena, José F., 2004h:34016**
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Samson, Claude *see* **Morin, Pascal, 2004j:93082**
San Miguel, A. Stabilization and attitude of a triaxial rigid body by Lie group methods. (English summary) **2004h:70007**
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von Stryk, Oskar *see* **Hardt, Michael, 2004j:70017**
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70Sxx Classical field theories [see also 37Kxx, 37Lxx, 78–XX, 81Txx, 83–XX]

Items with secondary classifications in 70Sxx

(Grabowski, Janusz) *see* **Classical and quantum integrability, 2004d:00024**
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70S05 Lagrangian formalism and Hamiltonian formalism

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Mangiarotti, Luigi *see* **Giachetta, Giovanni et al., 2004g:70049**
Marín-Solano, Jesús *see* **Echeverría-Enríquez, Arturo et al., 2004e:70039** *and* **2004i:70036**
Marrero, Juan Carlos *see* **de León, Manuel et al., 2004g:70050**
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Römer, Hartmann *see* **Paufler, Cornelius, 2004e:70040** *and* **Forger, Michael et al., 2004j:70056**

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70S10 Symmetries and conservation laws

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70S15 Yang-Mills and other gauge theories

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Povstenko, Yu. Z. From material point to Cosserat fiber bundle. Development of ideas.
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70S99 None of the above, but in this section

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Duclos, Pierre[1] *see* **Dittrich, J., 2004b:35273**
Farahat, N. I. (*with* Ramadan, Kh. A.) A treatment of second-order singular Lagrangians as continuous systems. (English summary) **2004d:70026**
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Tulczyjew, Włodzimierz M. The theory of systems with internal degrees of freedom. **2004k:81156**
Tyutin, I. V. *see* **Gitman, D. M.,** (**2003j:00026**)

74–XX Mechanics of deformable solids

74–01 Instructional exposition (textbooks, tutorial papers, etc.)

England, A. H. ★ Complex variable methods in elasticity.
Lai, W. Michael *see* **Ling, Frederick F. et al., 2004c:74001**
Ling, Frederick F. (*with* Lai, W. Michael; Lucca, Don A.) ★ Fundamentals of surface mechanics. **2004c:74001**
Lucca, Don A. *see* **Ling, Frederick F. et al., 2004c:74001**
Parker, David F. ★ Fields, flows and waves. **2004b:74001**
Spencer, A. J. M. ★ Continuum mechanics.
Talaslidis, Demosthenes *see* **Wempner, Gerald, 2004e:74001**
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Bader, Rolf *see* **Schneider, Albrecht, 2004k:00009**
Fetter, Alexander L. (*with* Walecka, John Dirk) ★ Theoretical mechanics of particles and continua. **2004i:70001**
(Lidvansky, A. S.) *see* **Svetlitskiĭ, V. A., 2004m:74065**
(Mukhamedshin, R. A.) *see* **Svetlitskiĭ, V. A., 2004m:74065**
Schneider, Albrecht (*with* Bader, Rolf) Akustische Grundlagen musikalischer Klänge. [Acoustic foundations of musical sounds] **2004k:00009**
Svetlitskiĭ, V. A. ★ Engineering vibration analysis: worked problems. 2. **2004m:74065**
Walecka, John Dirk *see* **Fetter, Alexander L., 2004i:70001**

74–02 Research exposition (monographs, survey articles)

Haupt, Peter ★ Continuum mechanics and theory of materials. **2004h:74001**
(Kurth, Joan A.) *see* **Haupt, Peter, 2004h:74001**
Maugin, Gérard A. Recent advances in M^3 (mechanics on the material manifold). (English and Serbo-Croatian summaries) **2004k:74001**

74–03 Historical (must also be assigned at least one classification number from Section 01)

(Filon, Louis Napoleon George) *see* **Meleshko, V. V., 2004i:74001**
Heyman, Jacques Truesdell and the history of the theory of structures. (English summary) (*see* **2004k:70002**)
Meleshko, V. V. (*with* Selvadurai, A. P. S.) Contributions to the theory of elasticity by Louis Napoleon George Filon as viewed in the light of subsequent developments in biharmonic problems in applied mechanics and engineering mathematics. (English summary) **2004i:74001**
Mikhailov, Gleb K. Development of studies in the history of elasticity theory and structural mechanics. (English summary) (*see* **2004k:70002**)
Noll, Walter The genesis of Truesdell's nonlinear field theories of mechanics.
Selvadurai, A. P. S. *see* **Meleshko, V. V., 2004i:74001**
(Thomson, William, Lord Kelvin) *see* **Trainer, Matthew, 2004g:74001**
Trainer, Matthew Kelvin and piezoelectricity. (English summary) **2004g:74001**
(Truesdell, Clifford Ambrose, III) *see* **Noll, Walter**
Villaggio, Piero A historical survey of impact theories. (English summary) (*see* **2004k:70002**)

Items with secondary classifications in 74–03

(Becchi, Antonio) *see* **Essays on the history of mechanics, 2004k:70002**
(Benvenuto, Edoardo) *see* **Essays on the history of mechanics, 2004k:70002**
de Boer, Reint ★ Theory of porous media. **2004d:76098**
Cauvin, Aldo (*with* Stagnitto, Giuseppe) L. Euler and the birth of modern structural mechanics. From the catenary to the beam theory. (*see* **2004j:01005**)
(Corradi, Massimo) *see* **Essays on the history of mechanics, 2004k:70002**
(Euler, Leonhard) *see* **Cauvin, Aldo, (2004j:01005)**
(Foce, Federico) *see* **Essays on the history of mechanics, 2004k:70002**
Goryacheva, I. G. The research of A. Yu. Ishlinskiĭ in the field of rolling friction and its development. (Russian. Russian summary) **2004f:74069**
(Ishlinskiĭ, Aleksandr Yul'evich) *see* **Goryacheva, I. G., 2004f:74069**
Knops, Robin J. Filon's construct for dislocations and related topics. (English summary) **2004j:74013**
(Pedemonte, Orietta) *see* **Essays on the history of mechanics, 2004k:70002**
Stagnitto, Giuseppe *see* **Cauvin, Aldo, (2004j:01005)**
(Truesdell, Clifford Ambrose, III) *see* **Essays on the history of mechanics, 2004k:70002**

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Essays on the history of mechanics ★ Essays on the history of mechanics. **2004k:70002**
Genoa ★ Essays on the history of mechanics. **2004k:70002**

74–04 Explicit machine computation and programs (not the theory of computation or programming)

Walentyński, Ryszard A. Solving symbolic and numerical problems in the theory of shells with Mathematica. (*see* **2004j:00025**)

Items with secondary classifications in 74–04

Ameen, Mohammed ★ Boundary element analysis. **2004e:65137**

74–05 Experimental work

Criscione, John C. Rivlin's representation formula is ill-conceived for the determination of response functions via biaxial testing. (English summary)

74–06 Proceedings, conferences, collections, etc.

(Augusti, Giuliano) *see* **Dedicated to Piero Villaggio on the occasion of his 70th birthday**
(Bathe, Klaus-Jürgen) *see* **Computational fluid and solid mechanics, 2004i:74002**
(Bažant, Zdeněk P.) *see* **Damage and failure analysis of materials**
(Bennati, Stefano) *see* **Dedicated to Piero Villaggio on the occasion of his 70th birthday**
(Bletzinger, K.-U.) *see* **Trends in computational structural mechanics, 2004m:74001**
(Brocato, Maurizio) *see* **Rational continua, classical and new, 2004e:74002**
(Capriz, Gianfranco) *see* **Rational continua, classical and new, 2004e:74002**; **Advances in multifield theories for continua with substructure, 2004h:74002** *and* **Mathematical models in soil mechanics**
(Carol, Ignacio) *see* **Damage and failure analysis of materials**
(Filon, Louis Napoleon George) *see* **L. N. G. Filon and biharmonic problems in mechanics**
(Finel, Alphonse) *see* **Thermodynamics, microstructures and plasticity, 2004e:74003**
(Fish, Jacob) *see* **Multiscale computational mechanics for materials and structures**
(Fomin, Vasiliĭ Mikhaĭlovich) *see* **Numerical methods for solving problems in the theory of elasticity and plasticity, 2004j:74002**
(Freund, L. B.) *see* **Proceedings: Symposium on Dynamic Failure and Thin Film Mechanics**
(Ghionna, Vito Nicola) *see* **Mathematical models in soil mechanics**
(Giovine, Pasquale) *see* **Mathematical models in soil mechanics**
(Grinchenko, V. T.) *see* **L. N. G. Filon and biharmonic problems in mechanics**
Horstemeyer, Mark F. *see* **Liu, Wing Kam et al.**
(Ladevèze, Pierre) *see* **Multiscale computational mechanics for materials and structures**
Liu, Wing Kam (*with* Qian, Dong; Horstemeyer, Mark F.) Preface [Special issue on multiple scale methods for nanoscale mechanics and materials].
(Mariano, Paolo Maria) *see* **Advances in multifield theories for continua with substructure, 2004h:74002**
(Martins, J. A. C.) *see* **Friction and instabilities, 2004d:74001**
(Maugin, Gérard A.) *see* **Mechanics of electromagnetic solids, 2004j:74001**
(Mazière, Dominique) *see* **Thermodynamics, microstructures and plasticity, 2004e:74003**
(Meleshko, V. V.) *see* **L. N. G. Filon and biharmonic problems in mechanics**
(Miehe, Christian) *see* **IUTAM Symposium: Computational Mechanics of Solid Materials at Large Strains, 2004c:74002**
(Moraci, Nicola) *see* **Mathematical models in soil mechanics**
(Ogden, Raymond W.) *see* **Dedicated to Professor Ray W. Ogden**
(Podio-Guidugli, Paolo) *see* **Rational continua, classical and new, 2004e:74002**
Qian, Dong *see* **Liu, Wing Kam et al.**
(Raous, M.) *see* **Friction and instabilities, 2004d:74001**
(Ravichandran, G.) *see* **Proceedings: Symposium on Dynamic Failure and Thin Film Mechanics**
(Rosakis, A. J.) *see* **Proceedings: Symposium on Dynamic Failure and Thin Film Mechanics**
(Schiehlen, Werner) *see* **Shabana, Ahmed A.**
(Schweizerhof, K.) *see* **Trends in computational structural mechanics, 2004m:74001**
(Selvadurai, A. P. S.) *see* **L. N. G. Filon and biharmonic problems in mechanics**
Shabana, Ahmed A. Preface [Special issue on flexible multibody systems dynamics in honor of Professor Werner Schiehlen on the occassion of his 65th birthday].
(Steinmann, Paul) *see* **Damage and failure analysis of materials**
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(Veron, Muriel) *see* **Thermodynamics, microstructures and plasticity, 2004e:74003**
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(Wall, W. A.) *see* **Trends in computational structural mechanics, 2004m:74001**
(Yang, Jia Shi) *see* **Mechanics of electromagnetic solids, 2004j:74001**

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Advances in multifield theories for continua with substructure ★ Advances in multifield theories for continua with substructure. **2004h:74002**
Belgrade ★ Issue dedicated to the memory of Professor Rastko Stojanović.
Cachan ★ Multiscale computational mechanics for materials and structures.
Cambridge, MA ★ Computational fluid and solid mechanics 2003. Vol. 1. **2004i:74002**
Computational fluid and solid mechanics ★ Computational fluid and solid mechanics 2003. Vol. 1. **2004i:74002**
Conference:
Solid Mechanics ★ 5th EUROMECH Solid Mechanics Conference.
— ★ {34th Solid Mechanics Conference}.
Damage and failure analysis of materials ★ Damage and failure analysis of materials.
Dedicated to Piero Villaggio on the occasion of his 70th birthday ★ {Dedicated to Piero Villaggio on the occasion of his 70th birthday}.
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Friction and instabilities ★ Friction and instabilities. **2004d:74001**
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Computational Mechanics of Solid Materials at Large Strains ★ IUTAM Symposium on Computational Mechanics of Solid Materials at Large Strains. **2004c:74002**
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Shanghai ★ Mechanics of electromagnetic solids. **2004j:74001**
Stuttgart ★ IUTAM Symposium on Computational Mechanics of Solid Materials at Large Strains. **2004c:74002**
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Thermodynamics, microstructures and plasticity ★ Thermodynamics, microstructures and plasticity. **2004e:74003**
Thessaloniki ★ 5th EUROMECH Solid Mechanics Conference.
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— ★ Geometry, continua and microstructures, II.
Udine ★ Friction and instabilities. **2004d:74001**
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  Mathematical Models for Elastic Cusped Plates and Bars ★ Workshop on Mathematical Models for Elastic Cusped Plates and Bars.
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(Fosdick, Roger) *see* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III; Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. I** *and* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. III**
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(Lazzari, Barbara) *see* **Mathematical models and methods for smart materials, 2004j:00034**
(Man, Chi-Sing) *see* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III; Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. I** *and* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. III**
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(Neitzel, G. Paul) *see* **Interfaces for the 21st century, 2004g:00023**
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(Panagiotopoulos, Panagiotis D.) *see* **Memorial Issue: Panagiotopoulos, Panagiotis D.**
(Payne, Lawrence E.) *see* **Special Issue: Dedicated to Lawrence E. Payne**
(Pedley, Timothy J.) *see* **Flow past highly compliant boundaries and in collapsible tubes, 2004c:76001**
(Reguera, D.) *see* **Coherent structures in complex systems, 2004c:00016**
(Rubí, J. M.) *see* **Coherent structures in complex systems, 2004c:00016**
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(Sperb, René) *see* **Special Issue: Dedicated to Lawrence E. Payne**
(Torquato, Salvatore) *see* **Special Issue: In honour of George J. Dvorak**
(Truesdell, Clifford Ambrose, III) *see* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III; Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. I** *and* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. III**
(Wirgin, Armand) *see* **Acoustics, mechanics, and the related topics of mathematical analysis, 2004m:00011**
(Witelski, Thomas P.) *see* **Nonlinear differential equations, mechanics and bifurcation**

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Durham, NC ★ Nonlinear differential equations, mechanics and bifurcation.
Dynamical system modelling and stability investigation ★ Dynamical system modelling and stability investigation. **2004g:00012**
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74Axx Generalities, axiomatics, foundations of continuum mechanics of solids

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(Mariano, Paolo Maria) *see* **Advances in multifield theories for continua with substructure, 2004h:74002**
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74B10 Linear elasticity with initial stresses

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Pan, Kelin (*with* Yu, Pei[1]) Dynamical analysis on incompressible pre-stressed non-local elastic material. (English summary) **2004b:74013**
Papadopoulos, Panayiotis *see* **Lu, Jia**, **2004i:74021**
Pence, Thomas J. *see* **Novozhilova, L. S. et al.**, **2004f:74014**
Piccioni, Mario Daniele *see* **D'Ambrosio, Pietro et al.**, **2004m:74017**

Podio-Guidugli, Paolo *see* **Carillo, Sandra et al., 2004h:74010**
Polignone Warne, Debra *see* **Lee, Mary R. et al., 2004m:74021**
Rajagopal, Kumbakonam R. *see* **Saravanan, U., 2004f:74015** *and* **2004k:74023**
Ratner, Leah W. ★ Non-linear theory of elasticity and optimal design.
Rieger, Marc Oliver Young measure solutions for nonconvex elastodynamics. (English summary) **2004g:74010**
Rivlin, Ronald S. The Valanis-Landel strain-energy function. (English summary) **2004m:74023**
— (*with* Beatty, Millard F., Jr.) Dead loading of a unit cube of compressible isotropic elastic material. (English summary) **2004j:74019**
Saccomandi, Giuseppe *see* **Horgan, Cornelius O., 2004h:74011** *and* **2004m:74020**
Saravanan, U. (*with* Rajagopal, Kumbakonam R.) A comparison of the response of isotropic inhomogeneous elastic cylindrical and spherical shells and their homogenized counterparts. (English summary) **2004k:74023**
— (*with* Rajagopal, Kumbakonam R.) On the role of inhomogeneities in the deformation of elastic bodies. (English summary) **2004f:74015**
Schmidt, Bernd G. *see* **Beig, Robert, 2004i:74019**
Schröder, Jörg[2] (*with* Neff, Patrizio) On the construction of polyconvex anisotropic free energy functions. (English summary) **2004e:74011**
Silling, S. A. (*with* Zimmermann, M.; Abeyaratne, Rohan) Deformation of a peridynamic bar. (English summary) **2004m:74024**
Steigmann, David J. Frame-invariant polyconvex strain-energy functions for some anisotropic solids. (English summary) **2004h:74015**
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Steinmann, Paul *see* **Menzel, Andreas, 2004a:74006**
Tanteri, Chiara *see* **Dacorogna, Bernard, 2004m:74018**
Trimarco, Carmine The Green's and the Eshelby's identities in generalised continua and in dielectrics. (English and Serbo-Croatian summaries)
— *see also* **Knops, Robin J. et al., 2004h:74013**
Urazhdin, S. *see* **Novozhilova, L. S. et al., 2004f:74014**
Vergara-Caffarelli, Giorgio *see* **Carillo, Sandra et al., 2004h:74010**
Warne, Paul G. *see* **Lee, Mary R. et al., 2004m:74021**
Williams, Huw Trefor *see* **Knops, Robin J. et al., 2004h:74013**
Wineman, Alan (*with* Min, Je-Hong) Inhomogeneity in a sheared elastomeric layer as a result of thermally induced scission and healing. (English summary) **2004m:74025**
Yu, Pei[1] *see* **Pan, Kelin, 2004b:74013**
Zimmermann, M. *see* **Silling, S. A. et al., 2004m:74024**

Items with secondary classifications in 74B20

Aero, E. L. Essentially nonlinear theory of microdeformations in medium with periodic structure. (English and Serbo-Croatian summaries) **2004k:74012**
Armero, Francisco (*with* Romero, Ignacio) Energy-dissipative momentum-conserving time-stepping algorithms for the dynamics of nonlinear Cosserat rods. (English summary) **2004e:74077**
Arroyo, M. (*with* Belytschko, Ted) Finite element methods for the non-linear mechanics of crystalline sheets and nanotubes. (English summary) **2004i:74101**
Auricchio, F. *see* **Lovadina, C., 2004g:74062**
Axelsson, Owe (*with* Karátson, János) Conditioning analysis of separate displacement preconditioners for some nonlinear elasticity systems. (English summary) **2004m:65177**
Bahai, H. *see* **Farahani, K.**
Bailey, Chris *see* **Slone, A. et al., (2004e:65004)**
Bandeira, Alex Alves (*with* Wriggers, Peter; de Mattos Pimenta, Paulo) Numerical derivation of contact mechanics interface laws using a finite element approach for large 3D deformation. (English summary) **2004j:74098**
Bandurin, N. G. Large dynamic displacements and deformations of a massive extensible thread in a moving medium. (Russian. Russian summary)
Bassom, Andrew P. *see* **Coman, Ciprian D. et al., 2004h:74035**
Béal, P. (*with* Touzani, R.) Analysis of contact of elastic rods subject to large displacements. (English summary) **2004c:74060**
Beatty, Millard F., Jr. (*with* Elias-Zúñiga, Alex) Stress-softening effects in the vibration of a non-Gaussian rubber membrane. (English summary)
— *see also* **Elías-Zúñiga, Alex, 2004f:74035**
Beda, T. (*with* Chevalier, Y.) Non-linear approximation method by an approach in stages. (English summary)
Belytschko, Ted *see* **Arroyo, M., 2004i:74101** *and* **Rabczuk, Timon et al.**
Bishop, T. C. (*with* Cortez, R.; Zhmudsky, O. O.) Investigation of bend and shear waves in a geometrically exact elastic rod model. (English summary) **2004j:74074**
Bisognin, Eleni (*with* Bisognin, Vanilde; Coimbra Charão, Ruy) Uniform stabilization for elastic waves system with highly nonlinear localized dissipation. (English summary) **2004d:35240**
Bisognin, Vanilde *see* **Bisognin, Eleni et al., 2004d:35240**
Bojarski, Jarosław L. (*with* De Schepper, Hennie) Polyconvex functionals with linear increase at infinity. (English summary) **2004f:49022**
Boyer, Frédéric (*with* Primault, Dominique) Finite element of slender beams in finite transformations: a geometrically exact approach. (English summary)
Brigadnov, Igor A. The limited analysis in finite elasticity. (English summary) (*see* **2004k:65005**)
Brillard, Alain (*with* Ganghoffer, Jean-François) Asymptotic behaviour of thin interphases within the large deformation case. (English summary)
Bruhns, Otto Timme *see* **Xiao, Heng et al., 2004b:74002**
Buliga, Marius Lower semi-continuity of integrals with G-quasiconvex potential. (English summary) **2004b:49028**
Burak, Ya. Ĭ. (*with* Kalenyuk, P. Ĭ.; Mĭchuda, O. Ya.) Dynamic processes in elastic systems taking into account nonlinear interaction of various forms of motion. (Ukrainian. English, Russian and Ukrainian summaries) **2004c:74033**
— (*with* Moroz, G. Ĭ.) Mathematical problems of the nonlinear mechanics of elastic systems. (Ukrainian. English, Russian and Ukrainian summaries) **2004c:74026**
Camar-Eddine, M. (*with* Seppecher, Pierre) Determination of the closure of the set of elasticity functionals. (English summary) **2004i:74053**
Carlson, Donald E. (*with* Fried, Eliot; Sellers, Shaun) Force-free states, relative strain, and soft elasticity in nematic elastomers. (English summary) **2004i:74008**
Carroll, M. M. A representation theorem for volume-preserving transformations. (English summary) **2004i:35046**
Cattani, Carlo Wavelet solutions in elastic nonlinear oscillations. (English summary) **2004a:35156**
Chaudhuri, Nirmalendu (*with* Müller, Stefan[1]) Rigidity estimate for two incompatible wells. **2004m:49009**
Chen, Yi-Chao (*with* Haughton, David M.) Stability and bifurcation of inflation of elastic cylinders. (English summary) **2004e:74031**
Chevalier, Y. *see* **Beda, T.**
Chugaĭnova, A. P. *see* **Kulikovskiĭ, Andreĭ Gennadʹevich et al., 2004c:74038**
Ciarlet, Philippe G. (*with* Laurent, Florian) Continuity of a deformation as a function of its Cauchy-Green tensor. (English summary) **2004c:74027**
Cimetière, Alain *see* **Millet, Olivier et al., 2004h:74055**
Coimbra Charão, Ruy *see* **Bisognin, Eleni et al., 2004d:35240**
Coman, Ciprian D. (*with* Bassom, Andrew P.; Wadee, M. Khurram) Elasto-plastic localised responses in one-dimensional structural models. (English summary) **2004h:74035**
Cortez, R. *see* **Bishop, T. C. et al., 2004j:74074**
Criscione, John C. Rivlin's representation formula is ill-conceived for the determination of response functions via biaxial testing. (English summary)
Cross, Mark *see* **Slone, A. et al., (2004e:65004)**
Dai, Hui-Hui (*with* Fan, Xiaojun) Asymptotically approximate model equations for weakly nonlinear long waves in compressible elastic rods and their comparisons with other simplified model equations. (English summary) **2004m:74074**
De Schepper, Hennie *see* **Bojarski, Jarosław L., 2004f:49022**
De Simone, Antonio Pulling phase-transforming bars: a three-dimensional viewpoint. (English summary) **2004e:74068**
Desmorat, B. (*with* Duvaut, G.) Compliance optimization with nonlinear elastic materials. Application to constitutive laws dissymmetric in tension-compression. (English summary) **2004c:74069**
Destrade, Michel Rayleigh waves and surface stability for Bell materials in compression; comparison with rubber. (English summary) **2004i:74059**
Dolgikh, D. V. (*with* Kiselev, Vladimir Valerievich) A two-dimensional model of the dynamics of sharp bendings of a nonlinearly elastic plate. (Russian. Russian summary) **2004c:74043**
Donev, Aleksandar Nikola *see* **Torquato, Salvatore et al., 2004k:74033**
Dunwoody, J. On universal deformations with non-uniform temperatures in isotropic, incompressible elastic solids. (English summary) **2004h:74024**
Duvaut, G. *see* **Desmorat, B., 2004c:74069**
Eberhard, Peter *see* **Kübler, Lars et al.**
Elías-Zúñiga, Alex (*with* Beatty, Millard F., Jr.) Stress-softening effects in the transverse vibration of a non-Gaussian rubber string. (English summary) **2004f:74035**
— *see also* **Beatty, Millard F., Jr.**
Fallah, N. *see* **Slone, A. et al., (2004e:65004)**
Fan, Xiaojun *see* **Dai, Hui-Hui, 2004m:74074**
Faraco, Daniel Rigidity of sets of matrices. (*see* **2004k:30001**)
— (*with* Zhong, Xiao) Quasiconvex functions and Hessian equations. (English summary) **2004h:49003**
Farahani, K. (*with* Bahai, H.) Hyper-elastic constitutive equations of conjugate stresses and strain tensors for the Seth-Hill strain measures. (English summary)
Feng, Zhi-Qiang (*with* Peyraut, François; Labed, Nadia) Solution of large deformation contact problems with friction between Blatz-Ko hyperelastic bodies. (English summary) **2004f:74071**
Fonseca, Irene (*with* Fusco, Nicola; Marcellini, Paolo) On the total variation of the Jacobian. (English summary) **2004m:49063**
(Fosdick, Roger) *see* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. III**
Freĭdin, A. B. (*with* Vilchevskaya, E. N.; Sharipova, L. L.) Two-phase deformations within the framework of phase transition zones. (English and Serbo-Croatian summaries) **2004j:74105**
Fried, Eliot *see* **Carlson, Donald E. et al., 2004i:74008**
Friesecke, Gero (*with* James, Richard D.; Müller, Stefan C.) The Föppl-von Kármán plate theory as a low energy Γ-limit of nonlinear elasticity. (English and French summaries) **2004d:74045**
— (*with* Theil, F.) Validity and failure of the Cauchy-Born hypothesis in a two-dimensional mass-spring lattice. (English summary) **2004b:74006**
— (*with* James, Richard D.; Mora, Maria Giovanna; Müller, Stefan[1]) Derivation of nonlinear bending theory for shells from three-dimensional nonlinear elasticity by Gamma-convergence. (English and French summaries) **2004g:74044**
Fu, Y. B. (*with* Ogden, Raymond W.) Nonlinear stability analysis of pre-stressed elastic bodies. (English summary) **2004h:74009**
Fusco, Nicola *see* **Fonseca, Irene et al., 2004m:49063**
Ganghoffer, Jean-François *see* **Brillard, Alain**
Gauglitz, Phillip A. *see* **Terrones, Guillermo, 2004j:74027**
Geisler, Johannes *see* **Kübler, Lars et al.**
Gratie, Liliana Two-dimensional nonlinear shell model of Koiter's type with variable thickness. (English summary) **2004j:74088**
Gusenkova, A. A. Static problems in the nonlinear theory of elasticity for isotropic bodies with defects. (Russian. Russian summary) **2004c:74020**
Hamdouni, Aziz (*with* Millet, Olivier) Classification of thin shell models deduced from the nonlinear three-dimensional elasticity. I. The shallow shells. (English summary) **2004f:74059**
— (*with* Millet, Olivier) Classification of thin shell models deduced from the nonlinear three-dimensional elasticity. II. The strongly curved shells. (English summary) **2004f:74060**
— *see also* **Millet, Olivier et al., 2004h:74055**
Haughton, David M. *see* **Chen, Yi-Chao, 2004e:74031**
He, Ji Huan Generalized nonlinear elasticity theory of quasicrystals. (English, Russian and Ukrainian summaries) **2004c:74013**

van der Heijden, G. H. M. *see* **Neukirch, Sébastien**, **2004i:74070**
Heinstein, M. W. *see* **Laursen, Tod A.**, **2004e:74078**
Hill, James M. (*with* Wegner, J. L.) New families of exact nonlinear waves for the neo-Hookean finite elastic solid. (English summary) **2004m:74075**
Horgan, Cornelius O. (*with* Saccomandi, Giuseppe) A molecular-statistical basis for the Gent constitutive model of rubber elasticity. (English summary) **2004i:74010**
— (*with* Saccomandi, Giuseppe) Finite thermoelasticity with limiting chain extensibility. (English summary) **2004b:74019**
Imanuvilov, Oleg Yurievich (*with* Isakov, Victor; Yamamoto, Masahiro) An inverse problem for the dynamical Lamé system with two sets of boundary data. (English summary) **2004i:35308**
Isakov, Victor *see* **Imanuvilov, Oleg Yurievich et al.**, **2004i:35308**
Iwaniec, Tadeusz (*with* Verchota, Gregory C.; Vogel, Andrew L.) The failure of rank-one connections. (English summary) **2004j:58011**
James, Richard D. *see* **Friesecke, Gero et al.**, **2004d:74045** *and* **2004g:74044**
Jeffrey, Alan Blow-up, shock formation, and acceleration waves in hyperelastic media. (English summary) (*see* **2004m:00011**)
Kalenyuk, P. Ī. *see* **Burak, Ya. Ī. et al.**, **2004c:74033**
Karátson, János *see* **Axelsson, Owe**, **2004m:65177**
Karwowski, Andrzej Joachim Remark on indirect matching of singularly perturbed boundary value problems. (English summary) **2004f:34080**
Kiselev, Vladimir Valerievich *see* **Dolgikh, D. V.**, **2004c:74043**
Kübler, Lars (*with* Eberhard, Peter; Geisler, Johannes) Flexible multibody systems with large deformations and nonlinear structural damping using absolute nodal coordinates. (English summary)
Kulikovskiĭ, Andreĭ Gennad'evich (*with* Sveshnikova, E. I.; Chugaĭnova, A. P.) On nonuniqueness of solutions in the nonlinear theory of elasticity. (Russian) **2004c:74038**
— (*with* Sveshnikova, E. I.) The effect of a change in entropy on the shape of the shock adiabatic curve of quasitransverse elastic waves. (Russian. Russian summary) **2004b:74053**
Kurutz, Marta Survey of modified classical bifurcations due to deformation—sensitive loading with nonlinear, nonsmooth and nonconvex effects. (English summary) **2004g:74026**
Labed, Nadia *see* **Feng, Zhi-Qiang et al.**, **2004f:74071**
Lahellec, N. (*with* Michel, J. C.; Moulinec, H.; Suquet, P.) Analysis of inhomogeneous materials at large strains using fast Fourier transforms. (English summary) (*see* **2004c:74002**)
Laurent, Florian *see* **Ciarlet, Philippe G.**, **2004c:74027**
Laursen, Tod A. (*with* Heinstein, M. W.) Consistent mesh tying methods for topologically distinct discretized surfaces in non-linear solid mechanics. (English summary) **2004e:74078**
Le, Vy Khoi Noncoercive problems in nonlinear elasticity with stored energies having fast or slow growth: Orlicz-Sobolev space setting. (English summary) **2004m:74055**
Le Dret, Hervé (*with* Meunier, Nicolas) Heterogeneous wires made of martensitic materials. (English and French summaries) **2004f:74076**
LeVeque, Randall J. (*with* Yong, Darryl H.) Solitary waves in layered nonlinear media. (English summary) **2004g:74036**
Lovadina, C. (*with* Auricchio, F.) On the enhanced strain technique for elasticity problems. (English summary) **2004g:74062**
Lu, Jia Exact expansions of arbitrary tensor functions $\mathbf{F}(\mathbf{A})$ and their derivatives. (English summary) **2004j:74011**
Lubarda, V. A. *see* **Vujošević, L.**
Luo, Albert C. J. (*with* Mote, C. D., Jr.) Asymmetric responses of rotating, thin disks experiencing large deflections. (English summary)
Maître, Jean-François (*with* Rezgui, Ali; Souhail, Hichan; Zine, Abdel-Malek) High order finite volume schemes. Application to non-linear elasticity problems. (English summary) (*see* **2004e:65004**)
(Man, Chi-Sing) *see* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. III**
Mani, Saloua Truncation error and energy conservation for fluid-structure interactions. (English summary) **2004j:74039**
Marcellini, Paolo *see* **Fonseca, Irene et al.**, **2004m:49063**
Mardare, Cristinel On the recovery of a manifold with prescribed metric tensor. (English summary) **2004k:53009**
Martins, J. A. C. *see* **Pinto da Costa, A.**, **2004f:74073**
Matsui, Kazumi *see* **Terada, K. et al.**, **2004f:74079**
de Mattos Pimenta, Paulo *see* **Bandeira, Alex Alves et al.**, **2004j:74098**
Meunier, Nicolas *see* **Le Dret, Hervé**, **2004f:74076**
Meyers, Albert *see* **Xiao, Heng et al.**, **2004b:74002**
Michel, J. C. *see* **Lahellec, N. et al.**, (**2004c:74002**)
Mīchuda, O. Ya. *see* **Burak, Ya. Ī. et al.**, **2004c:74033**
(Miehe, Christian) *see* **IUTAM Symposium: Computational Mechanics of Solid Materials at Large Strains**, **2004c:74002**
Miller, Greg An iterative Riemann solver for systems of hyperbolic conservation laws, with application to hyperelastic solid mechanics. (English summary) **2004j:65122**
Millet, Olivier (*with* Hamdouni, Aziz; Cimetière, Alain) An Eulerian approach of non-linear membrane shell theory. (English summary) **2004h:74055**
— *see also* **Hamdouni, Aziz**, **2004f:74059** *and* **2004f:74060**
Monneau, Régis Justification of the nonlinear Kirchhoff-Love theory of plates as the application of a new singular inverse method. (English summary) **2004d:74049**
Mora, Maria Giovanna *see* **Friesecke, Gero et al.**, **2004g:74044**
Moroz, G. Ī. *see* **Burak, Ya. Ī.**, **2004c:74026**
von der Mosel, Heiko *see* **Schuricht, Friedemann**, **2004i:74071**
Mote, C. D., Jr. *see* **Luo, Albert C. J.**
Moulinec, H. *see* **Lahellec, N. et al.**, (**2004c:74002**)
Müller, Stefan[1] *see* **Friesecke, Gero et al.**, **2004g:74044** *and* **Chaudhuri, Nirmalendu**, **2004m:49009**
Müller, Stefan C. *see* **Friesecke, Gero et al.**, **2004d:74045**
Myers, Kristin (*with* Wineman, Alan) A pressurized spherical elastomeric membrane undergoing temperature induced scission and crosslinking. (English summary)
Neukirch, Sébastien (*with* van der Heijden, G. H. M.) Geometry and mechanics of uniform n-plies: from engineering ropes to biological filaments. (English summary) **2004i:74070**
Noels, L. (*with* Stainier, L.; Ponthot, J. P.) On the use of large time steps with an energy momentum conserving algorithm for non-linear hypoelastic constitutive models. (English summary) **2004j:74122**
Ogden, Raymond W. *see* **Fu, Y. B.**, **2004h:74009** *and* **Vinh, Pham Chi**, **2004k:74054**
Ohnimus, Stephan *see* **Stein, Erwin et al.**, (**2004m:74001**)
Peyraut, François *see* **Feng, Zhi-Qiang et al.**, **2004f:74071**
Pinto da Costa, A. (*with* Martins, J. A. C.) The evolution and rate problems and the computation of all possible evolutions in quasi-static frictional contact. (English summary) **2004f:74073**
Pitteri, Mario (*with* Zanzotto, G.) ★ Continuum models for phase transitions and twinning in crystals. **2004m:74095**
Podio-Guidugli, Paolo Contact interactions, stress, and material symmetry, for nonsimple elastic materials. (English and Serbo-Croatian summaries) **2004j:74008**
— A new quasilinear model for plate buckling. (English summary) **2004m:74083**
Ponthot, J. P. *see* **Noels, L. et al.**, **2004j:74122**
Primault, Dominique *see* **Boyer, Frédéric**
Pruchnicki, Erick Nonlinearly elastic membrane model for heterogeneous plates: a formal asymptotic approach by using a new double scale variational formulation. (English summary) **2004c:74048**
Rabczuk, Timon (*with* Belytschko, Ted; Xiao, Shao Ping) Stable particle methods based on Lagrangian kernels. (English summary)
Rezgui, Ali *see* **Maître, Jean-François et al.**, (**2004e:65004**)
Rieger, Albrecht (*with* Wriggers, Peter) Comparison of different error indicators for contact problems involving large elastic strains. (English summary) **2004g:74054**
Rivlin, Ronald S. Restrictions on the strain-energy function for an elastic material. (English summary) **2004m:74003**
Rohan, Eduard Sensitivity strategies in modelling heterogeneous media undergoing finite deformation. (English summary) **2004d:74067**
Romero, Ignacio *see* **Armero, Francisco**, **2004e:74077**
Russell, David L. (*with* White, Luther W.) A nonlinear elastic beam system with inelastic contact constraints. (English summary) **2004c:74037**
Rüter, Marcus *see* **Stein, Erwin et al.**, (**2004m:74001**)
Saccomandi, Giuseppe *see* **Horgan, Cornelius O.**, **2004b:74019** *and* **2004i:74010**
Saiki, Isao *see* **Terada, K. et al.**, **2004f:74079**
Schmidt, Jens Georg An a posteriori error estimator for the FEM in nonlinear elastostatics. (English summary) **2004e:74082**
Schuricht, Friedemann (*with* von der Mosel, Heiko) Euler-Lagrange equations for nonlinearly elastic rods with self-contact. (English summary) **2004i:74071**
Sellers, Shaun *see* **Carlson, Donald E. et al.**, **2004i:74008**
Seppecher, Pierre *see* **Camar-Eddine, M.**, **2004i:74053**
Shagidullin, R. R. A criterion for the monotonicity of the Piola tensor for soft shells. (Russian. Russian summary) **2004i:74080**
Sharipova, L. L. *see* **Freĭdin, A. B. et al.**, **2004j:74105**
Shibata, Yoshihiro Time-global solutions of nonlinear evolution equations and their stability [translation of Sūgaku **51** (1999), no. 1, 1–17]. (*see* **2004h:00027**)
Šilhavý, Miroslav An $O(n)$ invariant rank 1 convex function that is not polyconvex. (English and Serbo-Croatian summaries) **2004j:74050**
— Rank 1 convex hulls of $SO(n)$-invariant functions. (English summary) **2004e:74036**
— On the hysteresis in martensitic transformations. (English summary) **2004i:74092**
— Semiconvexity of invariant functions of rectangular matrices. (English summary) **2004d:49061**
— On $SO(n)$-invariant rank 1 convex functions. (English summary) **2004k:49054**
Sivaloganathan, Jeyabal (*with* Spector, Scott J.) On cavitation, configurational forces and implications for fracture in a nonlinearly elastic material. (English summary) **2004e:74037**
Slone, A. (*with* Fallah, N.; Bailey, Chris; Cross, Mark) A finite volume approach to geometrically non-linear stress analysis. (English summary) (*see* **2004e:65004**)
Souhail, Hichan *see* **Maître, Jean-François et al.**, (**2004e:65004**)
Spector, Scott J. *see* **Sivaloganathan, Jeyabal**, **2004e:74037**
Stainier, L. *see* **Noels, L. et al.**, **2004j:74122**
Stein, Erwin (*with* Rüter, Marcus; Ohnimus, Stephan) Absolute global and local error estimates in linear and finite elasticity. (English summary) (*see* **2004m:74001**)
Stillinger, F. H. *see* **Torquato, Salvatore et al.**, **2004k:74033**
Suquet, P. *see* **Lahellec, N. et al.**, (**2004c:74002**)
Sveshnikova, E. I. *see* **Kulikovskiĭ, Andreĭ Gennad'evich et al.**, **2004b:74053** *and* **2004c:74038**
Tamma, Kumar K. *see* **Zhou, Xiangmin**, **2004e:74083**
Tarantino, Angelo Marcello Asymmetric equilibrium configurations of symmetrically loaded isotropic square membranes. (English summary) **2004i:74072**
Teodorescu, P. P. (*with* Toma, Ileana) New integral LEM formulae applied to the nonlinear bar. (English summary)
Terada, K. (*with* Saiki, Isao; Matsui, Kazumi; Yamakawa, Y.) Two-scale kinematics and linearization for simultaneous two-scale analysis of periodic heterogeneous solids at finite strain. (English summary) **2004f:74079**
Terrones, Guillermo (*with* Gauglitz, Phillip A.) Deformation of a spherical bubble in soft solid media under external pressure. (English summary) **2004j:74027**
Theil, F. *see* **Friesecke, Gero**, **2004b:74006**
Toma, Ileana *see* **Teodorescu, P. P.**
Torquato, Salvatore (*with* Donev, Aleksandar Nikola; Stillinger, F. H.) Breakdown of elasticity theory for jammed hard-particle packings: conical nonlinear constitutive theory. (English summary) **2004k:74033**
Touzani, R. *see* **Béal, P.**, **2004c:74060**
Trabelsi, Karim Non-existence of minimizers for a nonlinear membrane plate under compression. (English and French summaries) **2004i:74075**
— Nonlinear thin plate models for a family of Ogden materials. (English and French summaries) **2004j:74084**
(Truesdell, Clifford Ambrose, III) *see* **Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. III**

Usmani, S. A. Small oscillations and stability of a thick highly elastic slab. (English summary) **2004f:74036**
Valent, Tullio On the notion of potential for mappings between linear spaces. A generalized version of the Poincaré lemma. (English and Italian summaries) **2004e:47103**
Valid, R. On Lagrange-Euler formulations for fluid-structure interactions. (English summary) **2004d:74022**
Verchota, Gregory C. *see* **Iwaniec, Tadeusz et al., 2004j:58011**
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74Cxx Plastic materials, materials of stress-rate and internal-variable type

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74C05 Small-strain, rate-independent theories (including rigid-plastic and elasto-plastic materials)

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74C15 Large-strain, rate-independent theories (including nonlinear plasticity)

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74C20 Large-strain, rate-dependent theories

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74C99 None of the above, but in this section

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74Dxx Materials of strain-rate type and history type, other materials with memory (including elastic materials with viscous damping, various viscoelastic materials)

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Fabrizio, Mauro (*with* Gentili, Giorgio; Golden, J. M.) Nonisothermal free energies for linear theories with memory. (English summary) **2004k:74004**
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74D05 Linear constitutive equations

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74D99 None of the above, but in this section

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74Exx Material properties given special treatment

74E05 Inhomogeneity

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74E10 Anisotropy

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74E35 Random structure

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74Fxx Coupling of solid mechanics with other effects

74F05 Thermal effects

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Răducanu, Răzvan On the NEM method in thermoelasticity. (English summary) **2004m:74045**
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Dascalu, Cristian *see* **Kalpakidis, V. K., 2004g:74003**
Denzer, Ralf *see* **Kuhl, Ellen et al.**
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Lorenzi, Alfredo *see* **Colombo, Fabrizio et al.**, **2004m:45011**
Lucca, Don A. *see* **Ling, Frederick F. et al.**, **2004c:74001**
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Mihăilescu-Suliciu, M. *see* **Făciu, C.**, **2004b:74076**
Min, Je-Hong *see* **Wineman, Alan**, **2004m:74025**
Mugafarov, M. F. *see* **Kaliev, I. A.**
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Nedoma, Jiří *see* **Hlaváček, Ivan**, (**2004j:00014**)
Nyashin, Yu. I. *see* **Kiryukhin, V. Yu. et al.**, **2004f:74067**
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Rajagopal, Kumbakonam R. (*with* Srinivasa, A. R.) On thermomechanical restrictions of continua. (English summary) **2004j:74005**
Reissig, Michael *see* **Wang, Ya Guang**, **2004b:35325** *and* **2004f:35127**
Reynolds, Daniel R. *see* **Klouček, Petr et al.**, **2004i:93086**
Rieger, Marc Oliver Exponential stability and global existence in thermoelasticity with radial symmetry. (English summary) **2004j:74056**
Roberts, A. J. *see* **Melnik, Roderick V. N.**, **2004a:74053**
Ruderman, Gregory A. *see* **Yoh, Jack Jai-ick et al.**, **2004e:74069**
Sango, Mamadou Asymptotic analysis of the initial boundary value problem for the thermoelastic system in a perforated domain. (English summary) **2004d:35020**
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Steinmann, Paul *see* **Kuhl, Ellen et al.**
Stewart, D. Scott *see* **Yoh, Jack Jai-ick et al.**, **2004e:74069**
Strömberg, Niclas *see* **Ireman, Peter et al.**, **2004h:74062**
Sugiyama, Masaru *see* **Valenti, Giovanna et al.**, **2004j:74062**
Tanigawa, Yoshinobu *see* **Ootao, Yoshihiro**
Telega, E. *see* **Gambin, B. et al.**, **2004m:74101**
Tokovīi, Yu. V. *see* **Vīgak, V. M. et al.**
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Zuazua, Enrique *see* **Perla Menzala, G.**, **2004d:74029** *and* **Zhang, Xu[1]**, **2004e:93050**
Zvonareva, O. V. *see* **Selezov, I. T.**

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74F10 Fluid-solid interactions (including aero- and hydro-elasticity, porosity, etc.)

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74F15 Electromagnetic effects

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74Gxx Equilibrium (steady-state) problems

74G05 Explicit solutions

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74G10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)

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74G15 Numerical approximation of solutions

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74Hxx Dynamical problems

74H05 Explicit solutions

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74H10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)

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74H15 Numerical approximation of solutions

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74H20 Existence of solutions

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74H35 Singularities, blowup, stress concentrations

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74H50 Random vibrations

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74J25 Inverse problems

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74J35 Solitary waves

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74J40 Shocks and related discontinuities

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74J99 None of the above, but in this section

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74Kxx Thin bodies, structures

74K05 Strings

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74K10 Rods (beams, columns, shafts, arches, rings, etc.)

de Aguiar, Marcus A. M. *see* **da Fonseca, Alexandre F., 2004g:74040**
Ahmed, A. *see* **Kapuria, S. et al.**
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Crasta, Graziano (*with* Fragalà, Ilaria; Gazzola, Filippo) A sharp upper bound for the torsional rigidity of rods by means of web functions. (English summary) **2004d:74040**
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Neukirch, Sébastien (*with* van der Heijden, G. H. M.) Geometry and mechanics of uniform *n*-plies: from engineering ropes to biological filaments. (English summary) **2004i:74070**
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Tambača, Josip (*with* Tutek, Zvonimir) Dynamic model of curved rods. (English summary) **2004f:74054**
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Wadee, M. Khurram *see* **Coman, Ciprian D. et al., 2004h:74035**
Wagner, Werner *see* **Sansour, C., 2004e:74081**
Wang, Charles H.-T. *see* **Tucker, Robin W.**
Wang, Hui-Ching *see* **Chang, Wen-Chey et al.**
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Woittennek, Frank *see* **Rudolph, Joachim, 2004a:74046**
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Zoubairi, Hakima *see* **Saint Jean Paulin, Jeannine, 2004m:49065**

74K15 Membranes

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74K20 Plates

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Kawohl, Bernd *see* **Ferone, Vincenzo**, **2004d:35008**
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Pradeilles Duval, Rachel-Marie Quasi-static evolution of delaminated structures: analysis of stability and bifurcation. (English summary) **2004k:74045**
Reddy, J. N. *see* **Cheng, Zhen-Qiang**
van Rensburg, N. F. J. *see* **Zietsman, L. et al.**, **2004g:74063**
Rodríguez, Rodolfo *see* **Durán, Ricardo G. et al.**, **2004m:65192**
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74Lxx Special subfields of solid mechanics

74L05 Geophysical solid mechanics [see also 86–XX]

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74L10 Soil and rock mechanics

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74L15 Biomechanical solid mechanics [see also 92C10]

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74Mxx Special kinds of problems

74M05 Control, switches and devices ("smart materials") [see also 93Cxx]

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74M10 Friction

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Kočvara, Michal *see* **Beremlijski, P. et al., 2004g:49066**
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74M25 Micromechanics

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74Nxx Phase transformations in solids [see also 74A50, 80Axx, 82B26, 82C26]

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Gentili, Giorgio ★ Mathematical models and methods for smart materials. **2004j:00034**
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74N05 Crystals

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74N10 Displacive transformations

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74N15 Analysis of microstructure

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Hackl, Klaus (*with* Hoppe, U.) On the calculation of microstructures for inelastic materials using relaxed energies. (English summary) **2004e:74035**
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74N20 Dynamics of phase boundaries

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74N25 Transformations involving diffusion

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Kohn, Robert V. (*with* Otto, Felix) Upper bounds on coarsening rates. (English summary) **2004f:82053**
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74N30 Problems involving hysteresis

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74N99 None of the above, but in this section

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74P20 Geometrical methods

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74Qxx Homogenization, determination of effective properties

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74Q05 Homogenization in equilibrium problems

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74Q99 None of the above, but in this section

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74Rxx Fracture and damage

74R05 Brittle damage

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Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al., 2004f:74087**
Rojek, Jerzy *see* **Oñate, Eugenio et al.**
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Rüter, Marcus *see* **Stein, Erwin et al., (2004m:74001)**
Sac-Epee, Jean-Marc *see* **Belhachmi, Zakaria et al., 2004m:74108**
Samaniego, E. *see* **Oliver, Javier et al., 2004b:74089**
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Sarkis, Marcus V. A coarse space for elasticity: partition of unity rigid body motions coarse space. (English summary) **2004b:74090**
Schmidt, Jens Georg An a posteriori error estimator for the FEM in nonlinear elastostatics. (English summary) **2004e:74082**
Sheen, Dongwoo *see* **Lee, Chang-Ock[2] et al., 2004d:74079**
Shi, Dong Yang *see* **Chen, Shao Chun et al., 2004d:74075**
Shin, Byeong Chun *see* **Kim, Sang Dong, 2004b:74088**
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Tamma, Kumar K. *see* **Zhou, Xiangmin, 2004e:74083**
Taylor, Robert Leroy *see* **Oñate, Eugenio et al.**
Tralli, A. *see* **Benvenuti, E., 2004j:74119**
Venini, Paolo (*with* Nascimbene, Roberto) A new fixed-point algorithm for hardening plasticity based on non-linear mixed variational inequalities. (English summary) **2004b:74091**
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Viaño Rey, Juan M. *see* **Fernández García, José Ramón et al., 2004d:74078**
Waas, Anthony M. *see* **Chung, Jaeung, 2004d:74076**
Wagner, Werner *see* **Sansour, C., 2004e:74081**
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Wihler, Thomas P. Locking-free DGFEM for elasticity problems in polygons. (English summary) **2004i:74108**
Yan, Ai-Min *see* **Khoi, VU. Duc et al., 2004i:74105**
Zhou, Xiangmin (*with* Tamma, Kumar K.) On the applicability and stress update formulations for corotational stress rate hypoelasticity constitutive models. (English summary) **2004e:74083**
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— *see also* **Callari, C.**
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Arnold, Douglas N. (*with* Winther, Ragnar) Mixed finite elements for elasticity in the stress-displacement formulation. (English summary) (*see* **2004h:65005**)
— (*with* Winther, Ragnar) Nonconforming mixed elements for elasticity. (English summary) **2004f:65176**
Aubry, Sylvie (*with* Fago, Matt; Ortiz, Michael) A constrained sequential-lamination algorithm for the simulation of sub-grid microstructure in martensitic materials. (English summary) **2004d:74083**
Axelsson, Owe (*with* Karátson, János) Conditioning analysis of separate displacement preconditioners for some nonlinear elasticity systems. (English summary) **2004m:65177**
Babuška, Ivo *see* **Strouboulis, Theofanis et al.**
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Bauchau, Olivier A. A self-stabilized algorithm for enforcing constraints in multibody systems. (English summary) **2004f:70002**
Beilina, Larisa Adaptive finite element/difference method for inverse elastic scattering waves. (English summary) **2004k:74056**
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— (*with* Renard, Yves) Hybrid finite element methods for the Signorini problem. (English summary) **2004d:65139**
Ben Dhia, Hachmi (*with* Zarroug, Malek) Contact in the Arlequin framework. (English summary) **2004c:74061**
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Bohatier, Claude *see* **Adélaïde, Lucas et al.**
Borri, Marco (*with* Bottasso, Carlo L.; Trainelli, Lorenzo) An invariant-preserving approach to robust finite-element multibody simulation. (English summary) **2004j:70002**
de Borst, R. *see* **van Brummelen, E. H. et al., 2004c:74016**
Bottasso, Carlo L. *see* **Borri, Marco et al., 2004j:70002**
Boudi, M. *see* **Boutyour, E. H. et al.**
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Braess, Dietrich (*with* Carstensen, Carsten; Reddy, B. D.) Uniform convergence and a posteriori error estimators for the enhanced strain finite element method. (English summary) **2004k:65211**
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Burman, Erik (*with* Picasso, Marco) Anisotropic, adaptive finite elements for the computation of a solutal dendrite. (English summary) **2004c:74065**
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Callari, C. (*with* Armero, Francisco) Analysis and numerical simulation of strong discontinuities in finite strain poroplasticity. (English summary)
Calvo, Begonia *see* **Cueto, E. et al., 2004m:65190**
Calvo Ruibal, Natividad (*with* Durany, J.; Vázquez Cendón, C.) Finite elements numerical solution of a coupled profile-velocity-temperature shallow ice sheet approximation model.
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Carstensen, Carsten (*with* Sauter, Stefan A.) A posteriori error analysis for elliptic PDEs on domains with complicated structures. (English summary) **2004k:65212**
— *see also* **Braess, Dietrich et al., 2004k:65211**
Cegoñino, J. *see* **Cueto, E. et al., 2004m:65190**
Chapelle, Dominique (*with* Ferent, Anca; Bathe, Klaus-Jürgen) 3D-shell elements and their underlying mathematical model. (English summary) **2004j:74087**
Chau, O. (*with* Fernández García, José Ramón; Han, Weimin; Sofonea, Mircea) Variational and numerical analysis of a dynamic frictionless contact problem with adhesion. (English summary) **2004b:74067**
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Chen, Da Yue *see* **Cai, Liang Bin et al., 2004b:74058**
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Chen, Shao Chun *see* **Sun, Hui Xia et al., 2004k:65227**
Chen, Wenbin (*with* Wang, Yan Qiu[1]) Cascadic multigrid methods for mortar Wilson finite element methods on planar linear elasticity. (English summary) **2004e:65144**
Chilton, Lawrence K. *see* **Ben Belgacem, Faker et al.**
Chin-Bing, Stanley A. *see* **Murphy, Joseph E., 2004i:76169**
Copetti, M. I. M. Finite element approximation to a quasi-static thermoelastic problem to the contact of two rods. (English summary) **2004b:65146**
Cruz, Manuel E. *see* **Matt, Carlos F., 2004g:80013**
Cueto, E. (*with* Sukumar, N.; Calvo, Begonia; Martínez, M. A.; Cegoñino, J.; Doblaré, M.) Overview and recent advances in natural neighbour Galerkin methods. (English summary) **2004m:65190**
Curnier, Alain *see* **Talon, C., 2004g:74055**
Dargush, G. F. *see* **Hadjesfandiari, A. R., 2004h:74032**
Davini, Cesare Gaussian curvature and Babuška's paradox in the theory of plates. (English summary) **2004i:74073**
Dawes, A. S. A three-dimensional contact algorithm for sliding surfaces. (English summary) **2004d:74060**
Deĭneka, V. S. *see* **Sergīenko, Ī. V., 2004k:74065**
Deshpande, V. S. (*with* Needleman, A.; van der Giessen, E.) Finite strain discrete dislocation plasticity. (English summary) **2004m:74027**
Díaz López, José F. (*with* Führer, Claus) A wavelet semidiscretisation of elastic multibody systems. (English summary) **2004j:70014**
Doblaré, M. *see* **Cueto, E. et al., 2004m:65190**
Dobrowolski, Manfred On the LBB constant on stretched domains. (English summary) **2004d:35198**
Dostál, Zdeněk (*with* Friedlander, Ana; Gomes Neto, Francisco A. M.; Santos, S. A.) Preconditioning by projectors in the solution of contact problems: a parallel implementation. (English summary) **2004a:74050**
Doudoumis, I. N. A mathematical programming incremental formulation for unilateral frictional contact problems of linear elasticity. (English summary) **2004g:74051**
Duan, Huo Yuan (*with* Liang, Guo Ping) Mixed and nonconforming finite element approximations of Reissner-Mindlin plates. (English summary) **2004i:74074**
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Durán, Ricardo G. (*with* Hernández, Erwin; Hervella-Nieto, Luis; Liberman, Elsa; Rodríguez, Rodolfo) Error estimates for low-order isoparametric quadrilateral finite elements for plates. (English summary) **2004m:65192**
Durany, J. *see* **Calvo Ruibal, Natividad et al.**
Ern, Alexandre (*with* Guermond, Jean Luc) ★ Éléments finis: théorie, applications, mise en œuvre. (French. French summary) [Finite elements: theory, applications, implementation] **2004a:65003**
Evans, A. G. *see* **Hyun, Sangil et al.**
Fago, Matt *see* **Aubry, Sylvie et al., 2004d:74083**
Faleskog, J. *see* **Larsson, J. et al.**
Ferdinand, Robert R. Numerical scheme approximating solution and parameters in a beam equation. (English summary) **2004j:65142**
Ferent, Anca *see* **Chapelle, Dominique et al., 2004j:74087**
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Fernández-Méndez, Sonia (*with* Huerta, Antonio) Imposing essential boundary conditions in mesh-free methods. (English summary) **2004m:65194**
Fousek, J. *see* **Nedoma, Jiřiet al.**
Friedlander, Ana *see* **Dostál, Zdeněk et al., 2004a:74050**
Frijns, A. J. H. *see* **Kaasschieter, E. F. et al.**
Führer, Claus *see* **Díaz López, José F., 2004j:70014**
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Gerbi, Stéphane *see* **Bourdarias, Christian et al.**
Gerstmayr, J. Strain tensors in the absolute nodal coordinate and the floating frame of reference formulation. (English summary)
van der Giessen, E. *see* **Deshpande, V. S. et al., 2004m:74027**
Giovine, Pasquale A continuum theory of soils: viewed as peculiar immiscible mixtures. (English summary) **2004d:74058**
Givoli, Dan *see* **Barbone, Paul E. et al., 2004c:74030**
Gomes Neto, Francisco A. M. *see* **Dostál, Zdeněk et al., 2004a:74050**
Griebel, Michael *see* **Arndt, Marcel et al., 2004j:74102**
Griffiths, D. F. *see* **Garrido, Izaskun, (2004m:74001)**
Gross, Dietmar (*with* Kolling, Stefan; Müller, Rainer[2]; Schmidt, Ingo) Configurational forces and their application in solid mechanics. (English summary) **2004k:74013**
Gu, R. J. (*with* Shillor, Meir; Barber, G. C.; Jen, T.) Thermal analysis of the grinding process. (English summary)
Guermond, Jean Luc *see* **Ern, Alexandre, 2004a:65003**
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Hadjesfandiari, A. R. (*with* Dargush, G. F.) Boundary eigensolutions in elasticity. II. Application to computational mechanics. (English summary) **2004h:74032**
Haenel, Christophe *see* **Bernadou, Michel, 2004i:74077**
Han, Weimin *see* **Chau, O. et al., 2004b:74067** *and* **Chen, Jiuhua et al., 2004h:65098**
Hansbo, Peter (*with* Larson, Mats G.) Discontinuous Galerkin and the Crouzeix-Raviart element: application to elasticity. (English summary) **2004b:65184**
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Hassani, Riad (*with* Hild, Patrick; Ionescu, Ioan R.; Sakki, Nour-Dine) A mixed finite element method and solution multiplicity for Coulomb frictional contact. (English summary) **2004h:74061**
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Hernández, Erwin *see* **Durán, Ricardo G. et al., 2004m:65192**
Hervella-Nieto, Luis *see* **Durán, Ricardo G. et al., 2004m:65192**
Heys, J. J. (*with* Manteuffel, T. A.; McCormick, Stephen F.; Ruge, J. W.) First-order system least squares (FOSLS) for coupled fluid-elastic problems. (English summary)
Hild, Patrick *see* **Hassani, Riad et al., 2004h:74061**
Hoppe, U. *see* **Hackl, Klaus, 2004e:74035**
Hu, Jun (*with* Ming, Ping-bing; Shi, Zhong Ci) Nonconforming quadrilateral rotated Q_1 element for Reissner-Mindlin plate. (English summary) **2004c:65143**
Huerta, Antonio *see* **Fernández-Méndez, Sonia, 2004m:65194**
Hulshoff, S. J. *see* **van Brummelen, E. H. et al., 2004c:74016**
Huyghe, J. M. *see* **Kaasschieter, E. F. et al.**
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Ionescu, Ioan R. *see* **Hassani, Riad et al., 2004h:74061**
Ireman, Peter (*with* Klarbring, Anders; Strömberg, Niclas) Finite element algorithms for thermoelastic wear problems. (English summary) **2004h:74062**
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Kaasschieter, E. F. (*with* Frijns, A. J. H.; Huyghe, J. M.) Mixed finite element modelling of cartilaginous tissues. (English summary)
Kamiński, Marcin Sensitivity analysis of homogenized characteristics for some elastic composites. (English summary) **2004d:74065**
Karátson, János *see* **Axelsson, Owe, 2004m:65177**
Karlsson, A. M. *see* **Hyun, Sangil et al.**
Kelly, D. W. *see* **Cao, Thang**
Kestřánek, Zdeněk *see* **Nedoma, Jiřiet al.**
Khom'yak, M. M. *see* **Marchuk, M. V., 2004f:65193**
Klarbring, Anders *see* **Ireman, Peter et al., 2004h:74062**
Klézl, Z. *see* **Nedoma, Jiřiet al.**
Kolling, Stefan *see* **Gross, Dietmar et al., 2004k:74013**

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— (*with* Steinmann, Paul) Material forces in open system mechanics. (English summary) **2004m:74011**
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Larsson, J. (*with* Faleskog, J.; Massih, A. R.) Analysis of densification and swelling of solids using pressure dependent plasticity criteria. (English summary)
Le Tallec, Patrick *see* **Fernández, Miguel Ángel**, **2004i:74037**
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Li, Likang *see* **Liu, Qing**[5], **2004d:65144**
Li, Zhi Ping Numerical justification of branched laminated microstructure with surface energy. (English summary) **2004i:74091**
Liang, Guo Ping *see* **Duan, Huo Yuan**, **2004f:65181** *and* **2004i:74074**
Liberman, Elsa *see* **Durán, Ricardo G. et al.**, **2004m:65192**
Liebe, Tina (*with* Menzel, Andreas; Steinmann, Paul) Theory and numerics of geometrically non-linear gradient plasticity. (English summary) **2004g:74013**
Lin, Runchang *see* **Zhang, Zhimin**, **2004k:65192**
Liolios, A. A. *see* **Angelov, Todor Angelov**, **2004j:74097**
Liu, Gui-Rong ★ Mesh free methods. **2004e:65141**
Liu, Qing[5] (*with* Li, Likang) On mortar-type TRUNC element method for plate bending problem. (English summary) **2004d:65144**
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Luo, Zhang Hua (*with* Wang, Guang Hui) Numerical modeling of a unilateral beam problem. (Chinese. English and Chinese summaries)
Luskin, Mitchell *see* **Bělík, Pavel**, **2004f:65178**
Maceri, A. *see* **Tosone, C.**, **2004g:74042**
Mäkinen, R. A. E. *see* **Martikainen, Janne et al.**, (**2004e:65003**)
Manteuffel, T. A. *see* **Heys, J. J. et al.**
Marchuk, M. V. (*with* Khom'yak, M. M.) A mixed form of the finite element method and a block algorithm for solving the interlay contact problem. (Ukrainian. English, Russian and Ukrainian summaries) **2004f:65193**
Marsden, Jerrold E. *see* **Lew, Adrian et al.**, **2004a:74021**
Martikainen, Janne (*with* Mäkinen, R. A. E.; Rossi, Tuomo; Toivanen, Jari) A preconditioner for linear elasticity problems. (*see* **2004e:65003**)
Martínez, M. A. *see* **Cueto, E. et al.**, **2004m:65190**
Maryška, Jiří (*with* Novák, Josef [1]; Rálek, Petr; Šembera, Jan) Finite element model of piezoelectric resonator. (English summary) **2004k:65223**
Massih, A. R. *see* **Larsson, J. et al.**
Matache, Ana-Maria (*with* Melenk, J. M.) Two-scale regularity for homogenization problems with nonsmooth fine scale geometry. (English summary) **2004e:35018**
Matsui, Kazumi (*with* Terada, K.) Continuous approximation of material distribution for topology optimization. (English summary) **2004k:74086**
Matt, Carlos F. (*with* Cruz, Manuel E.) Application of a multiscale finite-element approach to calculate the effective conductivity of particulate media. (English summary) **2004g:80013**
de Mattos Pimenta, Paulo *see* **Bandeira, Alex Alves et al.**, **2004j:74098**
McCormick, Stephen F. *see* **Heys, J. J. et al.**
Meijaard, J. P. *see* **Schwab, A. L.**, **2004h:70012**
Melenk, J. M. *see* **Matache, Ana-Maria**, **2004e:35018**
Menzel, Andreas *see* **Liebe, Tina et al.**, **2004g:74013**
Mergheim, J. (*with* Kuhl, Ellen; Steinmann, Paul) A hybrid discontinuous Galerkin/interface method for the computational modelling of failure. (English summary)
van der Merwe, Abraham Johannes *see* **Zietsman, L. et al.**, **2004j:74077**
Ming, Ping-bing (*with* Shi, Zhong Ci) Some low order quadrilateral Reissner-Mindlin plate elements. (English summary) **2004i:65124**
— *see also* **Hu, Jun et al.**, **2004c:65143**
Mohan, Sai Jagan (*with* Pratap, Rudra) A natural classification of vibration modes of polygonal ducts based on group theoretic analysis. (English summary) **2004j:70041**
Mokeev, V. V. On a method for vibration analysis of viscous compressible fluid-structure systems. (English summary) **2004m:74049**
Müller, Rainer[2] *see* **Gross, Dietmar et al.**, **2004k:74013**
Murphy, Joseph E. (*with* Chin-Bing, Stanley A.) Computational ocean-seismoacoustic modeling using finite elements. (English summary) **2004i:76169**
Nair, Pradeepa (*with* Pani, Amiya K.) Semi-discrete finite element method for a class of visco-elastic problems with long memory under condition of friction. (*see* **2004j:00016**)
Nedoma, Jiří (*with* Klézl, Z.; Fousek, J.; Kestřánek, Zdeněk; Stehlík, J.) Numerical simulation of some biomechanical problems. (English summary)
Needleman, A. Localized plastic flow in single crystals: a nonlocal analysis. (English summary) (*see* **2004c:74002**)
— *see also* **Deshpande, V. S. et al.**, **2004m:74027**
Noels, L. (*with* Stainier, L.; Ponthot, J. P.) An energy-momentum conserving algorithm for non-linear hypoelastic constitutive models. (English summary) **2004i:74050**
Novák, Josef [1] *see* **Maryška, Jiřiet al.**, **2004k:65223**
Ohayon, Jacques *see* **Bourdarias, Christian et al.**
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Zikatanov, Ludmil T. *see* **Shu, Shi et al., 2004m:65042**

74S99 None of the above, but in this section

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Sampaio, Rubens *see* **Wolter, C. et al.**
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76–XX Fluid mechanics {For general continuum mechanics, see 74Axx, or other parts of 74–XX.}

76–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Morgan, Kenneth) *see* **Conference: Computational Fluid Dynamics**
(Weatherill, N. P.) *see* **Conference: Computational Fluid Dynamics**

Items listed otherwise than by author

Conference:
Computational Fluid Dynamics ★ ECCOMAS Computational Fluid Dynamics Conference. Part I.
Swansea ★ ECCOMAS Computational Fluid Dynamics Conference. Part I.

76–01 Instructional exposition (textbooks, tutorial papers, etc.)

Emanuel, George ★ Analytical fluid dynamics. **2004d:76001**
(Orlandi, Paolo) *see* **Fluid flow phenomena**, **2004m:76001**

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(Carabineanu, Adrian) *see* **Dragoş, Lazăr**, **2004k:76074**
Danielson, D. A. ★ Vectors and tensors in engineering and physics. **2004b:15056**
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76–02 Research exposition (monographs, survey articles)

Brizard, Alain J. (*with* Tracy, Eugene R.) Mini-conference on Hamiltonian and Lagrangian methods in fluid and plasma physics. (English summary)
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Kopachevskiĭ, Nikolaĭ D. (*with* Krein, Selim G.) ★ Operator approach to linear problems of hydrodynamics. Vol. 2. **2004g:76001**
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Moffatt, H. Keith Some remarks on topological fluid mechanics. (English summary) **2004f:76001**
Sommeria, J. Two-dimensional turbulence. **2004e:76001**
Tracy, Eugene R. *see* **Brizard, Alain J.**

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(Carabineanu, Adrian) *see* **Dragoş, Lazăr**, **2004k:76074**
Dragoş, Lazăr ★ Mathematical methods in aerodynamics. **2004k:76074**
Kolev, Nikolay I. ★ Multiphase flow dynamics. 1. (English summary) **2004j:76157**
Yudovich, V. I. Eleven great problems of mathematical hydrodynamics. (English and Russian summaries) **2004m:35208**

76–03 Historical (must also be assigned at least one classification number from Section 01)

Darrigol, Olivier Stability and instability in nineteenth-century fluid mechanics. (English and French summaries) **2004a:76001**
— The spirited horse, the engineer, and the mathematician: water waves in nineteenth-century hydrodynamics. **2004k:76002**
Elizarov, A. M. (*with* Il′inskiĭ, N. B.; Potashev, A. V.) Development of research in inverse boundary value problems of aerodynamics. (Russian) (*see* **2004e:00008**)
Il′inskiĭ, N. B. *see* **Elizarov, A. M. et al.**, (**2004e:00008**)
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Zeytounian, Radyadour Kh. Il y a cent ans... et aujourd'hui: l'approximation de Boussinesq. [The Boussinesq approximation one hundred years ago and today] **2004h:76001**

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de Boer, Reint ★ Theory of porous media. **2004d:76098**
Dritschel, David G. *see* **McKiver, William J.**, **2004h:76159**
Gaukroger, Stephen (*with* Schuster, John) The hydrostatic paradox and the origins of Cartesian dynamics. (English summary) **2004b:01017**
Guillaume, Anne Histoire de la dynamique et de la prévision des vagues à la surface de l'océan. [History of the dynamics and forecasting of surface waves of the ocean] (*see* **2004j:01005**)
(Kamerlingh Onnes, Heike) *see* **Levelt Sengers, Johanna**, **2004h:76072**
Kasimov, A. R. (*with* Obnosov, Yu. V.) Analytic solutions of problems of filtration in porous media and their applications. (Russian) (*see* **2004e:00008**)
Levelt Sengers, Johanna ★ How fluids unmix. **2004h:76072**
McKiver, William J. (*with* Dritschel, David G.) The motion of a fluid ellipsoid in a general linear background flow. **2004h:76159**
(Nekrasov, Aleksandr Ivanovich) *see* **Volgina, V. N.**, **2004g:01039**
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(Bajer, Konrad) *see* **Tubes, sheets and singularities in fluid dynamics, 2004d:76005**
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(Boström, Anders) *see* **Acoustic interactions with submerged elastic structures, 2004g:76002**
(Busse, Friedrich H.) *see* **Theories of turbulence, 2004g:76004**
(Carpenter, Peter W.) *see* **Flow past highly compliant boundaries and in collapsible tubes, 2004c:76001**
(Cercignani, Carlo) *see* **Turbulence modelling and simulation**
(David, François) *see* **New trends in turbulence, 2004c:76002**
(Davis, Stephen H.) *see* **Annual review of fluid mechanics. Vol. 36, 2004m:76002**
(Ecer, A.) *see* **Parallel computational fluid dynamics**
(Elizarov, A. M.) *see* **Models of continuum mechanics, 2004b:76001**
(Fox, Patricia L.) *see* **Parallel computational fluid dynamics**
(Friedlander, Susan J.) *see* **Handbook: Mathematical fluid dynamics, 2004a:76002**
(Gao, Tain Fu) *see* **Theoretical and computational acoustics, 2004h:76002**
(Gotoh, Toshiyuki) *see* **Statistical theories and computational approaches to turbulence, 2004d:76004**
(Guran, Ardéshir) *see* **Acoustic interactions with submerged elastic structures, 2004g:76002**
(Hafez, Mohamed M.) *see* **Computational fluid dynamics for the 21st century, 2004d:76003**
(Halpern, Laurence) *see* **Absorbing boundaries and layers, domain decomposition methods, 2004k:76003**
(Hourigan, K.) *see* **Bluff body wakes and vortex-induced vibrations**
Hughes, Thomas J. R. *see* **Tezduyar, Tayfun E.**
(Ihlenburg, Frank) *see* **Medium-frequency acoustics**
(Kaneda, Yukio[1]) *see* **Statistical theories and computational approaches to turbulence, 2004d:76004**
(Kawahara, Mutsuto) *see* **In honour of Professor Mutsuto Kawahara on the occasion of his 60th birthday**
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(Kosterin, A. V.) *see* **Models of continuum mechanics, 2004b:76001**
(Leroy, Oswald) *see* **Acoustic interactions with submerged elastic structures, 2004g:76002**
(Lesieur, Marcel) *see* **New trends in turbulence, 2004c:76002**
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(Li, Qihu) *see* **Theoretical and computational acoustics, 2004h:76002**
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(Matsuno, Kenichi) *see* **Parallel computational fluid dynamics**
(Maze, Gérard) *see* **Acoustic interactions with submerged elastic structures, 2004g:76002**
(Moffatt, H. Keith) *see* **Tubes, sheets and singularities in fluid dynamics, 2004d:76005**
(Moin, Parviz) *see* **Annual review of fluid mechanics. Vol. 36, 2004m:76002**
(Morgan, Kenneth) *see* **Conference: Computational Fluid Dynamics**
(Morgan, Patrick) *see* **Computational fluid dynamics, 2004g:76003**
(Morinishi, Koji) *see* **Computational fluid dynamics for the 21st century, 2004d:76003**
(Murad, Márcio A.) *see* **Special Issue: Multi-scale science**
(Navon, I. M.) *see* **In honour of Professor Mutsuto Kawahara on the occasion of his 60th birthday**
(Oberlack, Martin) *see* **Theories of turbulence, 2004g:76004**
(Pedley, Timothy J.) *see* **Flow past highly compliant boundaries and in collapsible tubes, 2004c:76001**
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(Piomelli, Ugo) *see* **Turbulence modelling and simulation**
(Satofuka, Nobuyuki) *see* **Computational fluid dynamics for the 21st century, 2004d:76003** *and* **Parallel computational fluid dynamics**
(Serre, Denis) *see* **Handbook: Mathematical fluid dynamics, 2004a:76002**
(Shang, Er-Chang) *see* **Theoretical and computational acoustics, 2004h:76002**
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(Weatherill, N. P.) *see* **Conference: Computational Fluid Dynamics**
(Williamson, C. H. K.) *see* **Bluff body wakes and vortex-induced vibrations**
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Meeting:
  Multi-Scale Computational Modeling of Heterogeneous Systems ★ Special issue on multi-scale science.
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(Aceves, Alejandro) *see* **Complexity and nonlinearity in physical systems**
(Ainsworth, Mark) *see* **Topics in computational wave propagation, 2004h:65008**
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(Bathe, Klaus-Jürgen) *see* **Computational fluid and solid mechanics, 2004i:74002**
(Ben Abdallah, Naoufel) *see* **Transport in transition regimes, 2004j:82002**
(Benkhaldoun, Fayssal) *see* **Finite volumes for complex applications II, 2004k:65005**
(Bonilla, Luis L.) *see* **Coherent structures in complex systems, 2004c:00016**
(Buescu, Jorge) *see* **Bifurcation, symmetry and patterns, 2004e:37003**
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(Castro, Sofia) *see* **Bifurcation, symmetry and patterns, 2004e:37003**
(Davies, Penny J.) *see* **Topics in computational wave propagation, 2004h:65008**
(Davis, Stephen H.) *see* **Interfaces for the 21st century, 2004g:00023**
(Degond, Pierre) *see* **Transport in transition regimes, 2004j:82002**
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(Duncan, Dugald) *see* **Topics in computational wave propagation, 2004h:65008**
(Galdi, Giovanni P.) *see* **Topics in mathematical fluid mechanics, 2004j:00038**
(Gilbert, Robert Pertsch) *see* **Acoustics, mechanics, and the related topics of mathematical analysis, 2004m:00011**
(Givoli, Dan) *see* **New computational methods for wave propagation**
(Glassey, Robert T.) *see* **Transport in transition regimes, 2004j:82002**
(Hänel, Dieter) *see* **Finite volumes for complex applications II, 2004k:65005**
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(Herbin, Raphaèle) *see* **Finite volumes for complex applications, 2004e:65004**
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(Hou, Thomas Y.) *see* **Hyperbolic problems: theory, numerics, applications, 2004j:00016**
(Hunt, Julian C. R.) *see* **Wind over waves II: forecasting and fundamentals of applications, 2004k:86001**
(Kröner, Dietmar) *see* **Finite volumes for complex applications, 2004e:65004**
(Labouriau, Isabel Salgado) *see* **Bifurcation, symmetry and patterns, 2004e:37003**
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(Lvov, Yuri V.) *see* **Complexity and nonlinearity in physical systems**
(Madaune-Tort, Monique) *see* **Conference: Applied Mathematics and Statistics, 2004h:00021**
(Martin, Paul Andrew) *see* **Topics in computational wave propagation, 2004h:65008**
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76Axx Foundations, constitutive equations, rheology

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Siddiqui, A. M. *see* **Hayat, Tasawar et al.**
Sritharan, S. S. *see* **Barbu, Viorel**, **2004m:76007**
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Pozrikidis, C. *see* **Li, Xiaofan**, **2004f:76109**
Riley, David S. *see* **Villegas-Díaz, M. et al.**, **2004g:76071**
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Errata:
"Similarity solutions for slender dry patches with thermocapillarity" Erratum to: "Similarity solutions for slender dry patches with thermocapillarity" [J. Engrg. Math. **44** (2002), no. 4, 369–394; MR 2004c:76049a] by D. Holland, S. K. Wilson and B. R. Duffy. **2004c:76049b**

76A25 Superfluids (classical aspects)

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76Bxx Incompressible inviscid fluids

76B03 Existence, uniqueness, and regularity theory [see also 35Q35]

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76B07 Free-surface potential flows

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76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, airfoil and hydrofoil theory, sloshing

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Faltinsen, Odd M. (*with* Rognebakke, Olav F.; Timokha, A. N.) Resonant three-dimensional nonlinear sloshing in a square-base basin. (English summary) **2004i:76015**
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Huq, P. *see* **Selezov, I. T. et al.**, **2004a:76018**
Iafrati, Alessandro *see* **Riccardi, Giorgio**, **2004k:76019**
Iollo, Angelo *see* **Galletti, Bernardo et al.**
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Mackey, Dana (*with* Cox, E. A.) Dynamics of a two-layer fluid sloshing problem. (English summary) **2004m:76018**
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Mallier, Roland (*with* Haslam, Michael C.) Modal interactions in a Bickley jet: comparison of theory with direct numerical simulation. (English summary) **2004e:76011**
Mangiavacchi, N. *see* **Sabatini, M. H. et al.**
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Minotti, F. O. Two-dimensional potential theory for translating and rotating solids. (English summary) **2004h:76017**
Motygin, O. V. Solvability of boundary integral equations for the problem of a body moving in a two-layer fluid. (Russian. Russian summary) **2004c:76014**
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Perlin, Marc *see* **Bian, Xiaoqiang et al.**
(Petrila, Titus) *see* **Pop, Ioan²**
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Prokof′ev, V. V. *see* **Ocheretyany, S. A.**, (**2004k:65005**)
Prosperetti, Andrea *see* **Ohl, C. D. et al.**
Putilin, S. I. Some features of a supercavitating model dynamics. (English summary) **2004a:76016**
Ramos, J. I. Oscillatory dynamics of inviscid planar liquid sheets. (English summary) **2004d:76012**
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Rognebakke, Olav F. *see* **Faltinsen, Odd M. et al.**, **2004i:76015**
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Shankar, P. N. A simple method for studying low-gravity sloshing frequencies. (English summary) **2004j:76012**
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Smirnov, S. A. (*with* Voropaev, S. I.) On the asymptotic theory of momentum/zero-momentum wakes. (English summary) **2004c:76016**
Suleman, A. *see* **Pedro, G. et al.**, **2004c:76015**
Tijink, A. *see* **Ohl, C. D. et al.**
Timokha, A. N. *see* **Faltinsen, Odd M. et al.**, **2004i:76015**
Tomé, M. F. *see* **Sabatini, M. H. et al.**
Veldman, Arthur E. P. *see* **Gerrits, J.**, **2004a:76014**
Voropaev, S. I. *see* **Smirnov, S. A.**, **2004c:76016**
Wang, An-Bang *see* **Fedorchenko, Alexander I.**
Wegner, Franz Floating bodies of equilibrium. (English summary) **2004e:76013**
Whitehead, J. A. *see* **Baines, Peter G.**, **2004a:76012**
Zannetti, Luca *see* **Galletti, Bernardo et al.**
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Afanas′ev, Ya. D. *see* **Voropaev, S. I. et al.**, **2004h:76041**
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Colicchio, G. (*with* Landrini, M.) On the use of boundary-integral equation methods for unsteady free-surface flows. (English summary) **2004d:76080**
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Dias, Frédéric (*with* Iooss, Gérard) Water-waves as a spatial dynamical system. (English summary) **2004g:76021**
Filippov, I. A. *see* **Voropaev, S. I. et al.**, **2004h:76041**
García-Navarro, P. *see* **Brufau, P.**, **2004b:76114**
Gharib, Morteza *see* **Krueger, Paul S.**, **2004h:76114**
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Gubkina, E. V. *see* **Monakhov, V. N.**, **2004k:35425**
Helluy, Philippe *see* **Barberon, Thomas**, (**2004e:65004**)
Iooss, Gérard *see* **Dias, Frédéric**, **2004g:76021**
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Landrini, M. *see* **Colicchio, G.**, **2004d:76080**
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Le Sommer, J. (*with* Medvedev, S. B.; Plougonven, R.; Zeitlin, Vladimir) Singularity formation during relaxation of jets and fronts toward the state of geostrophic equilibrium. (English summary) **2004h:86003**
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Peregrine, D. H. Water-wave impact on walls. (English summary) **2004b:76027**
Plougonven, R. *see* **Le Sommer, J. et al.**, **2004h:86003**
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Porter, Richard (*with* Porter, David[1]) Scattered and free waves over periodic beds. (English summary) **2004g:76025**
Quecedo, M. (*with* Pastor, M.) Finite element modelling of free surface flows on inclined and curved beds. (English summary) **2004d:76072**

Ramanathan, Veeraraghavan *see* **Pagalthivarthi, Krishnan V., 2004a:76131**
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Sussman, Mark A second order coupled level set and volume-of-fluid method for computing growth and collapse of vapor bubbles. (English summary) **2004c:76109**
Tani, Atusi *see* **Ogawa, Masao, 2004g:35181**
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Wang, Gang[2] *see* **Ashgriz, Nasser et al.**
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Yang, Yan-sheng *see* **Ren, Jun-sheng et al.**
Zeitlin, Vladimir *see* **Le Sommer, J. et al., 2004h:86003**
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76B15 Water waves, gravity waves; dispersion and scattering, nonlinear interaction [see also 35Q30, 35Q53]

Abbasov, I. B. Study and simulation of nonlinear surface gravity waves under shallow-water conditions. (Russian. Russian summary) **2004f:76011**
Agnon, Y. *see* **Madsen, P. A., 2004h:76025**
Ahluwalia, D. S. *see* **Chakrabarti, Aloknath et al., 2004a:76020**
Akylas, T. R. *see* **Calvo, David C., 2004g:76020**
Ambrosi, Davide *see* **Onorato, M. et al., 2004i:76032**
An, Daniel *see* **Choi, Jeongwhan et al., 2004h:76018**
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Antar, Nalan (*with* Moodie, T. B.) Weakly nonhydrostatic effects in compositionally-driven gravity flows. (English summary) **2004e:76015**
Bakholdin, I. B. (*with* Il′ichev, A. T.) Instability and collapse of waveguides on the water surface under the ice cover. (English summary) **2004f:76012**
Balk, A. M. Surface gravity wave turbulence: three wave interaction? (English summary) **2004e:76016**
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Bingham, Harry B. *see* **Madsen, P. A. et al., 2004f:76018**
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Body, Giles L. (*with* Ehrenmark, Ulf T.) Wave generation on a plane beach by a moving pressure disturbance or by a stationary bottom protrusion. (English summary) **2004d:76013**
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Chacón Rebollo, Tomás (*with* Domínguez Delgado, Antonio; Fernández Nieto, Enrique D.) An entropy-correction free solver for non-homogeneous shallow water equations. (English summary) **2004m:76021**
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Chamberlain, P. G. The effect of evanescent wave modes on scattering and near-trapping. (English summary) **2004m:76022**
Chen, Chun Li *see* **Zhang, Jin E. et al., 2004m:76035**
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Choi, Jeongwhan (*with* An, Daniel; Lim, Chaeho; Park, Sangro) Symmetric surface waves over a bump. (English summary) **2004h:76018**
Chung, Hyuck *see* **Linton, C. M., 2004b:76022**
Clamond, Didier Cnoidal-type surface waves in deep water. (English summary) **2004h:76019**
Constantin, Adrian (*with* Strauss, Walter A.) Exact steady periodic water waves with vorticity. (English summary) **2004i:76018**
Craig, Walter (*with* Nicholls, David P.) Traveling gravity water waves in two and three dimensions. (English summary) **2004b:76018**
Czygan, O. (*with* von Estorff, O.) An analytical fundamental solution of the transient scalar wave equation for axisymmetric systems. (English summary) **2004f:76014**
Das, K. P. *see* **Debsarma, Suma, 2004a:76021**
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Dolgikh, Anton V. (*with* Dorofeev, Dmitry L.; Zon, Boris A.) Tolman's nonlinearity of capillary waves. (English summary) **2004f:76015**
Domínguez Delgado, Antonio *see* **Chacón Rebollo, Tomás et al., 2004m:76021**
Dorofeev, Dmitry L. *see* **Dolgikh, Anton V. et al., 2004f:76015**
Dotsenko, S. F. Generation of surface waves and vortices by a displacement of the elliptic part of the basin's bottom. (English summary)
Drake, John *see* **Guo, Daniel**
Dubinina, V. A. (*with* Kurkin, A. A.; Polukhina, O. E.) Focusing of edge waves over the sea shelf. (Russian. Russian summary) **2004i:76019**
Duistermaat, J. J. *see* **Manders, Astrid M. M. et al., 2004i:76029**
Dullin, Holger R. (*with* Gottwald, Georg A.; Holm, Darryl D.) Camassa-Holm, Korteweg-de Vries-5 and other asymptotically equivalent equations for shallow water waves. (English summary) **2004g:76022**
Dysthe, Kristian B. (*with* Trulsen, Karsten; Krogstad, Harald E.; Socquet-Juglard, Hervé) Evolution of a narrow-band spectrum of random surface gravity waves. (English summary) **2004h:76021**
Ehrenmark, Ulf T. Wave trapping above a plane beach by partially or totally submerged obstacles. (English summary) **2004i:76020**
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von Estorff, O. *see* **Czygan, O., 2004f:76014**
Evans, D. V. (*with* Porter, Richard) Wave scattering by narrow cracks in ice sheets floating on water of finite depth. (English summary) **2004i:76021**
— (*with* Shipway, B. J.) A note on the uniqueness of certain water-wave problems involving two vertical cylindrical shells. (English summary) **2004f:76016**
Fernández Nieto, Enrique D. *see* **Chacón Rebollo, Tomás et al., 2004m:76021**
Ferrant, Pierre (*with* Le Touzé, David; Pelletier, Karine) Non-linear time-domain models for irregular wave diffraction about offshore structures. (English summary)
Filippov, S. I. A boundary value problem for the circulation flow around an underwater contour with the formation of capillary-gravity waves. (Russian) **2004b:76019**
Fineberg, J. *see* **Rucklidge, Alastair M. et al., 2004h:76028**
Fouque, Jean-Pierre (*with* Nachbin, André) Time-reversed refocusing of surface water waves. (English summary) **2004j:76014**
Francius, Marc (*with* Kharif, Christian) On the disappearance of the lowest-order instability for steep gravity waves in finite depth. (English summary) **2004e:76019**
Gao, Xiao-Shan *see* **Xie, Fu Ding**
Gavrilova, K. N. The effect of dispersion and topography on the dynamics of a thin fluid layer. (Russian. Russian summary) **2004i:76022**
Geng, Aifang *see* **Shi, Wei Ping et al., 2004h:76031**
Gottwald, Georg A. *see* **Dullin, Holger R. et al., 2004g:76022**
Grataloup, Géraldine L. (*with* Mei, Chiang C.) Localization of harmonics generated in nonlinear shallow water waves. (English summary) **2004h:76022**
Grigor′ev, A. I. *see* **Belonozhko, D. F., 2004k:76020**
Grimshaw, Roger H. J. *see* **Reznik, G. M., 2004c:76024**
Groves, M. D. (*with* Hărăguş-Courcelle, Mariana) A bifurcation theory for three-dimensional oblique travelling gravity-capillary water waves. (English summary) **2004e:76020**
Guo, Bo Ling *see* **Yang, Ling E, 2004d:76016**
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Halim, A. A. (*with* Kshevetskii, S. P.; Leble, Sergei B.) Approximate solution for Euler equations of stratified water via numerical solution of coupled KdV system. (English summary) **2004j:76015**
Hancock, Matthew J. *see* **Mei, Chiang C., 2004h:76026**
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Hellsten, Hans (*with* Maz′ya, Vladimir G.; Vainberg, Boris) The spectrum of water waves produced by moving point sources, and a related inverse problem. (English summary) **2004i:76023**
Hermans, A. J. Interaction of free-surface waves with a floating dock. (English summary) **2004a:76022**
— Interaction of free-surface waves with floating flexible strips. (English summary) **2004m:76023**
Higuera, María J. (*with* Vega, José M.; Knobloch, Edgar) Interaction of nearly-inviscid, multi-mode Faraday waves and mean flows. (*see* **2004c:00016**)
Hill, D. F. Transient and steady-state amplitudes of forced waves in rectangular basins. (English summary) **2004c:76018**
— Weakly nonlinear cubic interactions between surface waves and interfacial waves: an analytic solution. (English summary) **2004j:76016**
Holm, Darryl D. *see* **Dullin, Holger R. et al., 2004g:76022**
Huang, Hu Hamiltonian approximation of water waves in n-layer flows over uneven bottoms. (Chinese. English and Chinese summaries)
Huang, Zhenhua (*with* Mei, Chiang C.) Effects of surface waves on a turbulent current over a smooth or rough seabed. (English summary) **2004m:76024**
Iguchi, Tatsuo On steady surface waves over a periodic bottom: relations between the pattern of imperfect bifurcation and the shape of the bottom. (English summary) **2004d:76014**
Il′ichev, A. T. Instability of waveguides in a liquid with surface effects. (Russian. Russian summary) **2004c:76019**
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Iooss, Gérard (*with* Lombardi, Eric; Sun, Shu Ming) Gravity travelling waves for two superposed fluid layers, one being of infinite depth: a new type of bifurcation. (English summary) **2004c:76020**
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— *see also* **Lombardi, Eric**, **2004b:76023** *and* **Dias, Frédéric**, **2004g:76021**
Ioualalen, Mansour *see* **Okamura, Makoto[1] et al.**
Ito, Masaaki (*with* Shiba, Masakazu) Nonlinearity of energy of Rankine flows on a torus. (English summary) **2004c:76021**
Jamali, Mirmosadegh (*with* Lawrence, Gregory A.; Seymour, Brian) A note on the resonant interaction between a surface wave and two interfacial waves. (English summary) **2004i:76024**
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Joelson, Maminirina (*with* Ramamonjiarisoa, Alfred) Random fields of water surface waves using Wiener-Hermite functional series expansions. (English summary) **2004i:76025**
Johannessen, T. B. (*with* Swan, Christopher) On the nonlinear dynamics of wave groups produced by the focusing of surface-water waves. **2004e:76021**
Johnson, R. S. The Camassa-Holm equation for water waves moving over a shear flow. (English summary) **2004g:76023**
Kano, Tadayoshi (*with* Miki, Sae) Sur les ondes superficielles de l'eau et le développement de Friedrichs dans le système de coordonnées de Lagrange. [Surface water waves and Friedrichs expansion in the Lagrange system of coordinates] **2004g:76024**
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Monzon, C. O. *see* **Sekerzh-Zen'kovich, S. Ya. et al.**, **2004h:76030**
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Shu, Jian-Jun Impact of an oblique breaking wave on a wall. (English summary) **2004m:76032**

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Silber, M. *see* **Rucklidge, Alastair M. et al., 2004h:76028** *and* **Porter, Jeffrey, 2004m:76030**

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76B20 Ship waves

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76B55 Internal waves

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76B60 Atmospheric waves [see also 86A10]

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76Dxx Incompressible viscous fluids

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Magnaudet, Jacques *see* **Legendre, Dominique et al.**
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Marušić-Paloka, Eduard *see* **Gipouloux, Olivier, 2004f:76037**
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Nakanishi, Masato *see* **Ueda, Yoshiaki et al., 2004i:76062**
Nesterov, Sergeĭ V. *see* **Akulenko, L. D. et al., 2004f:76035**
Ng, Bart S. *see* **Reid, William H., 2004f:76041**
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Papageorgiou, Demetrios T. *see* **Blyth, Mark G. et al., 2004i:76055**
Popov, Yu. P. *see* **Kurganov, D. V. et al., 2004f:76039**
Posvyanskii, Vladimir S. *see* **Dinaburg, Efim I. et al., 2004m:76054**
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76D06 Statistical solutions of Navier-Stokes and related equations [see also 60H30, 76M35]

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76D08 Lubrication theory

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Kalliadasis, Serafim *see* **Bielarz, Catherine, 2004m:76061**
Li, Lin Zhong *see* **Smith, Frank T. et al., 2004i:76070**
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Wu, Guo Xiong *see* **Smith, Frank T. et al., 2004i:76070**

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76D09 Viscous-inviscid interaction

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76D10 Boundary-layer theory, separation and reattachment, higher-order effects

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76D17 Viscous vortex flows

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76D25 Wakes and jets

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76D45 Capillarity (surface tension) [see also 76B45]

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76D99 None of the above, but in this section

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76E06 Convection

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Langford, William F. *see* **Rusu, Dan D., 2004h:76084**
Legros, J. C. *see* **Simanovskii, I. B. et al.** *and* **Melnikov, D. E. et al.**
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Braun, R. J. *see* **Naire, S. et al., 2004k:76014**
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Gallez, D. (*with* de Souza, E. Ramos) Pattern formation in thin liquid films. (English summary) **2004i:76007**
Gaponenko, Yu. A. *see* **Aristov, S. N. et al., 2004h:76070**
Ghaly, Ahmed Y. *see* **El-Dib, Yusry O., 2004e:76064**
Gledzer, A. E. Slow motions in the reduced equations of a stratified fluid in the field of Coriolis forces. (Russian. Russian summary) **2004i:76184**
Gostling, M. J. (*with* Savage, M. D.; Wilson, M. C. T.) Flow in a double-film-fed fluid bead between contra-rotating rolls. II. Bead break and flooding. (English summary) **2004a:76008**
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Leppinen, David (*with* Lister, John R.) Capillary pinch-off in inviscid fluids. (English summary) **2004a:76026**
Lin, Sung P. *see* **Jiang, W. Y. et al., 2004j:76007**
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Lowengrub, John *see* **Kim, Junseok et al., 2004j:76117**
Mahajan, S. M. *see* **Tatsuno, T. et al., 2004d:76119**
Mancebo, Francisco J. *see* **Lapuerta, Victoria et al., 2004d:76054**
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Meiburg, Eckart *see* **Vanaparthy, Surya Harith et al., 2004j:76055**
(Merbold, Ulf) *see* **Langbein, Dieter, 2004f:76021**
Miklavcic, Stanley J. On the stability of planar fluid interfaces under van der Waals surface forces. (English summary) **2004g:76053**
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Savage, M. D. *see* **Gostling, M. J. et al., 2004a:76008**
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Slobozhanin, Lev A. (*with* Alexander, J. Iwan D.) Stability diagrams for disconnected capillary surfaces. (English summary) **2004h:76073**
Snow, S. A. *see* **Naire, S. et al., 2004k:76014**
de Souza, E. Ramos *see* **Gallez, D., 2004i:76007**
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Tatsuno, T. (*with* Yoshida, Zensho; Mahajan, S. M.) Destabilizing effect of plane Couette flow. (English summary) **2004d:76119**
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Vega, José M. *see* **Lapuerta, Victoria et al., 2004d:76054**
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Vol′pert, Vit. A. *see* **Aristov, S. N. et al., 2004h:76070**
Wilhelm, D. *see* **Vanaparthy, Surya Harith et al., 2004j:76055**
Wilson, M. C. T. *see* **Gostling, M. J. et al., 2004a:76008**
Wollkind, David J. *see* **Tian, Emily M., 2004i:76012**
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Yoshikawa, Toshio (*with* Balk, A. M.) A conformal-mapping model for bubbles and fingers of the Rayleigh-Taylor instability. (English summary) **2004g:76051**
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76E20 Stability and instability of geophysical and astrophysical flows

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Flierl, Glenn R. *see* **Poulin, Francis J. et al., 2004i:76111**
Friedlander, Susan J. (*with* Lifschitz, Alexander E.) Localized instabilities in fluids. (English summary) **2004g:76072**
Ghil, Michael *see* **Chen, Zhi-Min et al., 2004j:76071**
Griffiths, Stephen D. The nonlinear evolution of zonally symmetric equatorial inertial instability. **2004i:76108**
Iacono, Roberto On the existence of Arnold-stable barotropic flows on a rotating sphere. (English summary) **2004i:76109**
Jones, Christopher Andrew (*with* Mussa, A. I.; Worland, S. J.) Magnetoconvection in a rapidly rotating sphere: the weak-field case. (English summary) **2004f:76062**
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Li, Kai Tai *see* **Zhao, Chun Shan, 2004a:76055**
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Liu, Yong-ming (*with* Li, Na) Nonlinear stability theorem of zonally symmetric quasi-geostrophic flow. (English and Chinese summaries) **2004e:76063**
Mussa, A. I. *see* **Jones, Christopher Andrew et al., 2004f:76062**
Nagata, Wayne *see* **Lewis, Gregory M.**
Pedlosky, Joseph (*with* Thomson, Jim) Baroclinic instability of time-dependent currents. (English summary) **2004i:76110**
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Radwan, Ahmed E. Variable streams self-gravitating instability of radiating rotating gas cloud. (English summary) **2004i:76112**
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Thomson, Jim *see* **Pedlosky, Joseph, 2004i:76110**
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Wang, Shou Hong *see* **Chen, Zhi-Min et al., 2004j:76071**
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Allen, Leanne (*with* Bridges, Thomas J.) Hydrodynamic stability of the Ekman boundary layer including interaction with a compliant surface: a numerical framework. (English summary) **2004g:76065**
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Bharti, Pavan Kumar *see* **Sunil et al.**
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Campbell, L. J. (*with* Maslowe, S. A.) Nonlinear critical-layer evolution of a forced gravity wave packet. (English summary) **2004i:76046**
Choudhury, S. Roy *see* **Brown, Kevin G., 2004a:76056** *and* **2004a:76057**
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Flierl, Glenn R. *see* **Poulin, Francis J., 2004g:76030**
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Hollerbach, Rainer Instabilities of the Stewartson layer I. The dependence on the sign of *Ro*. (English summary) **2004i:76103**
Howard, Lou *see* **Deng, Jian et al., 2004g:76034**
Ide, Kayo *see* **Simonnet, Eric et al., 2004f:86004a** *and* **2004f:86004b**
Il′ichev, A. T. *see* **Bakholdin, I. B., 2004f:76012** *and* **Tsypkin, George**
Jones, Christopher K. R. T. *see* **Deng, Jian et al., 2004g:76034**
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Kizner, Ziv (*with* Berson, Dimitry; Khvoles, R.) Non-circular baroclinic beta-plane modons: constructing stationary solutions. (English summary) **2004i:76039**
Kreiss, Heinz-Otto *see* **Henshaw, William D. et al., 2004a:76037**
Leibovich, Sidney *see* **Bhaskaran, Rajesh, 2004b:86008** *and* **Haeusser, T. M., 2004i:76185**
Lewis, Gregory M. (*with* Nagata, Wayne) Linear stability analysis for the differentially heated rotating annulus. (English summary) **2004m:76076**
Lin, Ge *see* **Zhao, Chongbin et al., 2004c:86013**
Loper, David E. *see* **Roberts, Paul H. et al., 2004e:80005**
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Montgomery, Michael T. *see* **Nolan, David S., 2004a:86016**
Mori, Warren B. *see* **Fonseca, Ricardo A. et al., 2004j:85001**
Mühlhaus, H. B. *see* **Zhao, Chongbin et al., 2004c:86013**
Nagata, Wayne *see* **Lewis, Gregory M., 2004m:76076**
Nolan, David S. (*with* Montgomery, Michael T.) Nonhydrostatic, three-dimensional perturbations to balanced, hurricane-like vortices. I. Linearized formulation, stability, and evolution. (English summary) **2004a:86016**
Oliveira e Silva, L. *see* **Fonseca, Ricardo A. et al., 2004j:85001**
Ord, A. *see* **Zhao, Chongbin et al., 2004c:86013**
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Pratt, Lawrence J. *see* **Deng, Jian et al., 2004g:76034**
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Sharma, R. C. *see* **Sunil et al.**
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Temam, Roger *see* **Simonnet, Eric et al., 2004f:86004a** *and* **2004f:86004b**
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Wang, Shou Hong *see* **Simonnet, Eric et al., 2004f:86004a** *and* **2004f:86004b**
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Ystrom, Jacob *see* **Henshaw, William D. et al., 2004a:76037**
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76E25 Stability and instability of magnetohydrodynamic and electrohydrodynamic flows

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Barnes, Daniel C. Stability of a long field-reversed configuration: complete two-fluid theory. (English summary) **2004i:76113**
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Carnevale, George F. *see* **Kloosterziel, Rudolf C., 2004j:76075**
Choudhury, S. Roy *see* **Brown, Kevin G., 2004a:76056** *and* **2004a:76057**
Coelho, Rui (*with* Porcelli, Franco) Ideal stability of an elliptical plasma column in the presence of external feedback currents. (English summary) **2004a:76058**
Davidson, Ronald C. *see* **Belova, Elena V. et al., 2004d:76052**
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Gerbeth, Gunter *see* **Shatrov, V. et al., 2004e:76066**
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Hashem, Hoda A. *see* **Radwan, Ahmed E., 2004h:76093**
Henry, Daniel Pierre *see* **Kaddeche, S. et al., 2004j:76074**
Ilin, K. I. (*with* Trakhinin, Yu. L.; Vladimirov, V. A.) The stability of steady magnetohydrodynamic flows with current-vortex sheets. (English summary) **2004b:76067**
Ito, Atsushi *see* **Yoshida, Zensho et al., 2004b:76069**

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Leboeuf, J. N. *see* **Wanex, L. F. et al., 2004m:76080**
Mahajan, S. M. *see* **Yoshida, Zensho et al., 2004b:76069**
Maiellaro, Michele On the principle of exchange of stabilities in the anisotropic magnetohydrodynamic Bénard problem. (English summary) **2004b:76068**
Makinde, O. D. Magneto-hydrodynamic stability of plane-Poiseuille flow using multideck asymptotic technique. (English summary) **2004a:76060**
Moatimid, Galal M. Non-linear electrorheological instability of two streaming cylindrical fluids. (English summary) **2004j:76076**
Moresco, P. (*with* Alboussière, T.) Weakly nonlinear stability of Hartmann boundary layers. (English summary)
Mutschke, G. *see* **Shatrov, V. et al., 2004e:76066**
Nikulin, Viktor Vasil′evich *see* **Gubarev, Yu. G., 2004j:76073**
Ohsaki, Shuichi (*with* Yoshida, Zensho) Lyapunov function of relaxed states in two-fluid plasmas: stability of double-Beltrami flows. (English summary) **2004m:76078**
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Parks, P. B. (*with* Schaffer, M. J.) Analytical equilibrium and interchange stability of single- and double-axis field-reversed configurations inside a cylindrical cavity. (English summary) **2004c:76068**
Porcelli, Franco *see* **Coelho, Rui, 2004a:76058**
Prikarpat-s′kiĭ, Ya. A. *see* **Samulyak, Roman**
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Henry, Daniel Pierre *see* **Alboussière, T. et al., 2004f:76114**
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76E30 Nonlinear effects

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Ovchinnikova, S. N. *see* **Yudovich, V. I., 2004i:76116**

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Lopez, Juan M. *see* **Marqués, Francisco et al., 2004h:76086** *and* **Blackburn, H. M., 2004j:76078**

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76F02 Fundamentals

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76F05 Isotropic turbulence; homogeneous turbulence

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76F06 Transition to turbulence

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76F10 Shear flows

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76F20 Dynamical systems approach to turbulence [see also 37–XX]

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76F25 Turbulent transport, mixing

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76F30 Renormalization and other field-theoretical methods [see also 81T99]

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76F35 Convective turbulence [see also 76E15, 76Rxx]

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Newell, Alan C. *see* **Biven, Laura J. et al., 2004k:76056**
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Peyrard, Michel *see* **Daumont, Isabelle, 2004d:76056**
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Pope, Stephen B. *see* **Klimenko, A. Yu., 2004d:76058** *and* **Cao, Renfeng, 2004i:65008**
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76F60 k-ε modeling

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76F65 Direct numerical and large eddy simulation of turbulence

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Kosović, Branko *see* **Mohseni, Kamran et al.**, **2004a:76068**
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Lykosov, V. N. *see* **Glazunov, A. V.**, **2004g:86009**
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76F70 Control of turbulent flows

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Okuno, Akira *see* **Masuda, Akira, (2004d:76004)**

Omura, Yoshiharu *see* **Gaelzer, R. et al., 2004a:76141** *and* **Umeda, Tomio et al., 2004a:76142**

Orlandi, Paolo *see* **Carnevale, George F. et al., 2004h:76042**

Orlando, Wendell Welch *see* **Tung, Ka Kit, 2004k:86007**

Pavlenko, Vladimir P. *see* **Andrushchenko, Zhanna N., 2004m:76178**

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76G25 General aerodynamics and subsonic flows

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Cuenot, B. *see* **Paoli, R. et al.**, **2004e:76077**
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Lockerby, Duncan A. *see* **Reese, Jason M. et al.**, **2004m:76098**
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Dubroca, Bruno *see* **Ripoll, J. F. et al., 2004a:76118**
Dzhgamadze, N. O. *see* **Criado, Francisco et al., 2004c:65088**
Falcovitz, J. *see* **Ben-Artzi, Matania, (2004j:00016)**
Favorskiĭ, A. P. *see* **Bakirova, M. I. et al., 2004d:76076**
Feldman, Mikhail *see* **Chen, Gui-Qiang, 2004d:35182** *and* **2004m:35282**
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Moiseev, T. E. *see* **Bakirova, M. I. et al.**, **2004d:76076**
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Saurel, Richard *see* **Abgrall, Rémi**, **2004c:76103**; **Chinnayya, Ashwin et al.**, **2004m:76105** *and* **Andrianov, Nikolai et al.**, (**2004j:00016**)
Savill, A. M. *see* **Cant, R. S. et al.**, (**2004m:76002**)
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Sjögreen, Björn *see* **Yee, H. C. et al.**, (**2004d:76003**)
Skhirtladze, N. M. *see* **Criado, Francisco et al.**, **2004c:65088**
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Tropp, È. A. *see* **Omel′chenko, Aleksandr Vladimirovich**, **2004k:76105**
Trulsen, Jan *see* **Børve, Steinar et al.**, (**2004d:65005**)
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Webb, A. *see* **Pitman, E. Bruce et al.**, **2004m:86002**
Wei, Guo Wei *see* **Zhou, Yong Cheng et al.**, **2004c:76111** *and* (**2004j:00016**)
Xin, J. *see* **Krivodonova, Lilia et al.**
Xu, Zhiliang *see* **Glimm, James et al.**, **2004j:76109**
Yamazaki, Mitsuru *see* **Asakura, Fumioki**, (**2004j:00016**)
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Zhang, Tong[1] *see* **Chen, Shaozhong et al.**, **2004k:76100**
Zhang, Xin-ting *see* **Ying, Long An**
Zhang, Zhibin *see* **Shen, Meng Yu et al.**, **2004k:65146**
Zhao, Ning *see* **Glimm, James et al.**, **2004j:76109**
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Zumbrun, Kevin *see* **Brin, Leon Q.**, **2004c:15012** *and* **Mascia, Corrado**, (**2004j:00016**)

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76Mxx Basic methods in fluid mechanics [see also 65–XX]

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(Armfield, S.) *see* **Computational fluid dynamics**, **2004g:76003**
(Bathe, Klaus-Jürgen) *see* **Computational fluid and solid mechanics**, **2004i:74002**
(Castillo, José E.) *see* **Applied and computational mathematics**
(Ecer, A.) *see* **Parallel computational fluid dynamics**
(Fox, Patricia L.) *see* **Parallel computational fluid dynamics**
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(Morgan, Kenneth) *see* **Conference: Computational Fluid Dynamics**
(Morgan, Patrick) *see* **Computational fluid dynamics, 2004g:76003**
(Osher, Stanley J.) *see* **Special Issue: In honor of the sixtieth birthday of Stanley Osher**
(Pereyra, Victor) *see* **Applied and computational mathematics**
(Périaux, Jacques F.) *see* **Parallel computational fluid dynamics**
(Satofuka, Nobuyuki) *see* **Parallel computational fluid dynamics**
(Srinivas, Karkenahalli) *see* **Computational fluid dynamics, 2004g:76003**
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Belytschko, Ted *see* **Chessa, Jack, 2004g:76089**
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Ewing, Richard E. *see* **Wang, Hong[9] et al., 2004a:76091**
Fairag, Faisal Numerical computations of viscous, incompressible flow problems using a two-level finite element method. (English summary) **2004g:76090**
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Saksono, P. H. *see* **Perić, D., (2004m:74001)**

Salaün, Michel *see* **Dubois, François et al., 2004i:76141**

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Severýn, Otto *see* **Vohralík, Martin et al., (2004h:65005)**

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Shurina, È. P. *see* **Golovin, A. A. et al., (2004j:74002)**

Silvester, David J. *see* **Syamsudhuha, 2004i:76144**

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Doblaré, M. *see* **Cueto, E. et al., 2004m:65190**

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Dubois, François *see* **Abboud, Toufic et al., 2004b:76110**
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Dunca, Adrian (*with* John, Volker; Layton, William J.) Approximating local averages of fluid velocities: The equilibrium Navier-Stokes equations. (English summary) **2004k:76068**
Durany, J. *see* **Calvo Ruibal, Natividad et al.**
Dutra do Carmo, Eduardo Gomes (*with* Alvarez, Gustavo Benitez) A new stabilized finite element formulation for scalar convection-diffusion problems: the streamline and approximate upwind/Petrov-Galerkin method. (English summary) **2004f:65182**
El Amrani, Mofdi *see* **Bermejo, Rodolfo, 2004b:65143**
Ern, Alexandre (*with* Guermond, Jean Luc) ★ Éléments finis: théorie, applications, mise en œuvre. (French. French summary) [Finite elements: theory, applications, implementation] **2004a:65003**
Ervin, Vincent J. *see* **Brannan, James R. et al., 2004k:76062**
Ewing, Richard E. *see* **Chen, Zhangxin et al., 2004a:86007** *and* **2004b:76139**
Eymard, Robert *see* **Droniou, Jérôme et al., 2004f:65148**
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Farhat, Charbel *see* **Koobus, Bruno**
Farhloul, M. (*with* Zine, Abdel-Malek) A new mixed finite element method for viscoelastic fluid flows. (English summary) **2004f:65183**
— *see also* **Manouzi, H. et al., 2004i:65123**
Feistauer, Miloslav *see* **Dolejší, Vít et al., 2004f:65147**
Feng, Min Fu *see* **Chen, Rui-ge, 2004g:65152**
Fernández-Méndez, Sonia (*with* Huerta, Antonio) Imposing essential boundary conditions in mesh-free methods. (English summary) **2004m:65194**
Finn, Robert S. *see* **Brady, Victor et al., 2004b:76028**
Flaherty, Joseph E. *see* **Krivodonova, Lilia et al.**
Formaggia, Luca (*with* Perotto, Simona; Zunino, Paolo) An anisotropic a-posteriori error estimate for a convection-diffusion problem. (English summary) **2004a:65150**
Fortin, A. *see* **Guénette, R. et al., 2004k:65204**
Gamallo, P. *see* **Bermúdez de Castro, Alfredo et al., 2004f:74087**
Garcia, Galina C. *see* **Cascón, J. M. et al., 2004j:86001**
García Espinosa, Julio *see* **Oñate, Eugenio, (2004m:74001)**
Georgiev, Krassimir *see* **Antonov, Anton et al., (2004j:65007)**
Ghattas, Omar *see* **Akçelik, Volkan et al.**
Ghemires, Touria *see* **Chakib, Abdelkrim et al., 2004b:76138** *and* **2004m:76149**
Giacomoni, Catherine (*with* Orenga, Pierre) On the two-dimensional compressible isentropic Navier-Stokes equations. (English summary) **2004a:76114**
Girault, Vivette (*with* Nochetto, Ricardo H.; Scott, Larkin Ridgway) Stability of the finite element Stokes projection in $W^{1,\infty}$. (English and French summaries)
Givoli, Dan (*with* Patlashenko, Igor) Optimal local absorbing boundary conditions for problems in infinite domains. (English summary) **2004m:76121**
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Glinsky-Olivier, Nathalie (*with* Schall, Eric) A mixed finite volume/finite element method applied to combustion in multiphase medium. (English summary) (*see* **2004k:65005**)
Glowinski, Roland Finite element methods for incompressible viscous flow. (*see* **2004j:65001**)
— (*with* Rappaz, Jacques) Approximation of a nonlinear elliptic problem arising in a non-Newtonian fluid flow model in glaciology. (English summary) **2004e:86022**
Gowda, Shivaraju *see* **Kechroud, Riyad et al.**
Grün, Günther On the convergence of entropy consistent schemes for lubrication type equations in multiple space dimensions. (English summary) **2004c:65109**
Guénette, R. (*with* Fortin, A.; Labbé, J.; Marcotte, J. P.) Iterative solvers for quadratic discretizations of the generalized Stokes problem. (English summary) **2004k:65204**
Guermond, Jean Luc (*with* Minev, Peter D.) Approximation of an MHD problem using Lagrange finite elements. (English summary) **2004k:65172**
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— (*with* Minev, Peter D.) Mixed finite element approximation of an MHD problem involving conducting and insulating regions: the 3D case. (English summary) **2004h:65099**
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Gunzburger, Max D. The inf-sup condition in mixed finite element methods with application to the Stokes system.
Harari, Isaac *see* **Nesliturk, Ali, 2004c:65146**
Hauke, G. *see* **Brezzi, Franco et al., 2004f:65163**
Hazel, Andrew L. (*with* Heil, Matthias) Steady finite-Reynolds-number flows in three-dimensional collapsible tubes. (English summary) **2004i:76059**
He, Ji Huan Variational theory for one-dimensional unsteady tube flow. (English summary) **2004d:76011**
He, Yin Nian A fully discrete stabilized finite-element method for the time-dependent Navier-Stokes problem. (English summary) **2004m:65151**
— (*with* Lin, Yan-ping; Shen, Samuel S. P.; Sun, Weiwei; Tait, Robert) Finite element approximation for the viscoelastic fluid motion problem. (English summary) **2004d:65141**
— (*with* Wang, Aiwen; Chen, Zhangxin; Li, Kai Tai) An optimal nonlinear Galerkin method with mixed finite elements for the steady Navier-Stokes equations. (English summary) **2004h:65122**
— Two-level method based on finite element and Crank-Nicolson extrapolation for the time-dependent Navier-Stokes equations. (English summary) **2004k:65173**
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Heikkola, Erkki (*with* Rossi, Tuomo; Toivanen, Jari) A domain embedding method for scattering problems with an absorbing boundary or a perfectly matched layer. (English summary) **2004h:76135**
Heil, Matthias *see* **Hazel, Andrew L., 2004i:76059** *and* **Jensen, Oliver E., 2004i:76088**
Hervella-Nieto, Luis *see* **Bermúdez de Castro, Alfredo et al., 2004f:74087**
Hilhorst, Danielle *see* **Droniou, Jérôme et al., 2004f:65148**
Hou, Thomas Y. Numerical approximations to multiscale solutions in partial differential equations. (English summary) **2004m:65219**
— *see also* **Aarnes, Jørg, 2004h:65128**
Hou, Yan Ren (*with* Li, Kai Tai) Error estimate for a two-level scheme of Newton type for the Navier-Stokes equations. (English summary) **2004m:65152**
Hron, Jaroslav (*with* Málek, Josef; Nečas, Jindřich; Rajagopal, Kumbakonam R.) Numerical simulations and global existence of solutions of two-dimensional flows of fluids with pressure- and shear-dependent viscosities. (English summary) **2004e:76004**
Hu, Jonathan J. *see* **Bochev, Pavel B. et al., 2004g:65173**
Huan, Guanren *see* **Chen, Zhangxin et al., 2004c:76140** *and* **2004m:76151**
Huang, Chieh-Sen *see* **Douglas, Jim, Jr. et al., 2004h:76142**
Hubbard, Matthew (*with* Berzins, Martin) A positivity preserving finite element method for hyperbolic partial differential equations. (English summary) (*see* **2004g:76003**)
Huerta, Antonio *see* **Fernández-Méndez, Sonia, 2004m:65194**
Hughes, Thomas J. R. *see* **Tezduyar, Tayfun E.**
Hulshoff, S. J. *see* **van Brummelen, E. H. et al., 2004c:74016** *and* **Munts, E. A. et al., 2004f:65154**
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Jensen, Oliver E. (*with* Heil, Matthias) High-frequency self-excited oscillations in a collapsible-channel flow. (English summary) **2004i:76088**
Jimack, Peter K. (*with* Nadeem, Sarfraz A.) A parallel domain decomposition algorithm for the adaptive finite element solution of 3-D convection-diffusion problems. (English summary) (*see* **2004j:00013**)
John, Volker (*with* Layton, William J.) Analysis of numerical errors in large eddy simulation. (English summary) **2004i:76132**
— *see also* **Dunca, Adrian et al., 2004k:76068**
Kako, Takashi *see* **Nasir, H. M. et al., 2004e:65133**
Kaltenbacher, Barbara *see* **Ben Ameur, H., 2004b:65140**
Katsaounis, Theodoros (*with* Makridakis, Charalambos) Relaxation models and finite element schemes for the shallow water equations. (*see* **2004j:00016**)
(Kawahara, Mutsuto) *see* **In honour of Professor Mutsuto Kawahara on the occasion of his 60th birthday**
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Kemm, Friedemann (*with* Lee, Yong-Joong; Munz, Claus-Dieter; Schneider, Rudolf[2]) Divergence cleaning in finite-volume computations for electromagnetic wave propagations. (English summary) (*see* **2004e:65004**)
Kim, Do Wan *see* **Bae, Hyeong-Ohk, 2004j:65179**
Kim, HwanHo (*with* Xu, Jinchao; Zikatanov, Ludmil T.) Uniformly convergent multigrid methods for convection-diffusion problems without any constraint on coarse grids. (English summary) **2004k:65252**
Kim, Philsu *see* **Kweon, Jae Ryong, 2004g:65155**
Kirby, Robert Residual a posteriori error estimates for the mixed finite element method. (English summary) **2004h:65112**
Knobloch, Petr (*with* Tobiska, Lutz) The P_1^{mod} element: a new nonconforming finite element for convection-diffusion problems. (English summary) **2004g:65154**
Komsalova, Emilia *see* **Antonov, Anton et al., (2004j:65007)**
Koobus, Bruno (*with* Farhat, Charbel) A variational multiscale method for the large eddy simulation of compressible turbulent flows on unstructured meshes—application to vortex shedding. (English summary)
Korotkiĭ, A. I. *see* **Ismail-zade, A. T. et al., 2004f:65139**
Koyama, Daisuke *see* **Nasir, H. M. et al., 2004e:65133**
Kozerke, Sebastian *see* **Leuprecht, Armin et al., 2004k:92015**
Kräutle, S. (*with* Wielage, K.) The CGBI method for viscous channel flows and its preconditioning. (English summary) **2004c:76043**
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Kröner, Dietmar *see* **Dedner, Andreas et al., (2004d:00025)**
Kunert, Gerd A posteriori error estimation for convection dominated problems on anisotropic meshes. (English summary) **2004e:65123**
Kuzmin, D. (*with* Möller, Matthias; Turek, Stefan) Multidimensional FEM-FCT schemes for arbitrary time stepping. (English summary) **2004d:65112**
Kweon, Jae Ryong (*with* Kim, Philsu) An explicit finite element method for convection-dominated compressible viscous Stokes system with inflow boundary. (English summary) **2004g:65155**
Kythe, Prem K. (*with* Wei, Dongming) ★ An introduction to linear and nonlinear finite element analysis. **2004h:65001**
Labbé, J. *see* **Guénette, R. et al., 2004k:65204**
Latché, Jean-Claude *see* **Vola, D. et al., 2004c:76009**
Layton, Anita T. A semi-Lagrangian collocation method for the shallow water equations on the sphere. (English summary) **2004c:65112**
Layton, William J. (*with* Schieweck, Friedhelm; Yotov, Ivan) Coupling fluid flow with porous media flow. (English summary) **2004c:76048**
— *see also* **John, Volker, 2004i:76132** *and* **Dunca, Adrian et al., 2004k:76068**
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Lefton, Lew E. (*with* Wei, Dongming) Penalty finite element approximations of the stationary power-law Stokes problem. (English summary) **2004j:65187**
Léorat, J. *see* **Guermond, Jean Luc et al., 2004i:76197**
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Li, Baoyan *see* **Chen, Zhangxin et al., 2004c:76140**; **2004m:76151** *and* **Chen, Hongsen et al., 2004j:65184**
Li, Kai Tai *see* **He, Yin Nian et al., 2004h:65122** *and* **Hou, Yan Ren, 2004m:65152**
Li, Zi-Cai *see* **Wang, Song[1], 2004b:65192** *and* **2004d:65145**
Liang, Dong Upwinding finite covolume methods for unsteady convection-diffusion problems. (English summary) (*see* **2004h:65005**)
Lin, Yan-ping *see* **He, Yin Nian et al., 2004d:65141**
Linß, Torsten Layer-adapted meshes for convection-diffusion problems. (English summary) **2004a:65166**
(Lions, Jacques-Louis) *see* **Handbook: Numerical analysis, 2004j:65001**
Liu, Biyue On a finite element method for unsteady compressible viscous flows. (English summary) **2004f:65152**
— Flow patterns in curved atherosclerotic arteries. (English summary)
Liu, Gui-Rong ★ Mesh free methods. **2004e:65141**
Liu, Ru Xun *see* **Wang, Ji Wen**
Long, Kevin R. *see* **Akçelik, Volkan et al.**
Lu, Hao[1] *see* **Chen, Zhangxin et al., 2004a:86007**
Lu, Xiu Min *see* **Luo, Zhen Dong, 2004f:65192** *and* **2004j:65188**
Luo, Zhen Dong (*with* Zhu, Jiang[3]; Wang, Hui Jun) A nonlinear Galerkin/Petrov-least squares mixed element method for the stationary Navier-Stokes equations. (English and Chinese summaries) **2004a:65139**
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— (*with* Lu, Xiu Min) A nonlinear Galerkin/Petrov-least squares mixed element method for stationary conduction-convection problems. (Chinese. English summary) **2004j:65188**
Lyons, Stephen L. *see* **Chen, Zhangxin et al., 2004a:86007**
Maharavo Randrianarivony, H. *see* **Apel, Thomas**
Mahrenholtz, O. *see* **Markewicz, Marian et al.**
Makridakis, Charalambos *see* **Katsaounis, Theodoros, (2004j:00016)**
Málek, Josef *see* **Hron, Jaroslav et al., 2004e:76004**
Malyasov, S. Yu. *see* **Chen, Zhangxin et al., 2004a:86007**
Manouzi, H. (*with* Brahmi, A.; Farhloul, M.) Finite element approximation of bipolar viscous fluids. (English summary) **2004i:65123**
Marcotte, J. P. *see* **Guénette, R. et al., 2004k:65204**
Marheineke, Nicole Modified FEM for fibre-fluid interactions. (English summary)
Marini, Luisa Donatella *see* **Brezzi, Franco et al., 2004f:65163**
Markewicz, Marian (*with* Ben-Nasr, K.; Mahrenholtz, O.) Numerical simulations of nonlinear wave radiation in inviscid fluid with a free surface. (English summary)
Martínez, M. A. *see* **Cueto, E. et al., 2004m:65190**
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Miao, Huan-ling *see* **He, Yin Nian et al., 2004j:65145**
Micheletti, Stefano (*with* Perotto, Simona; Picasso, Marco) Stabilized finite elements on anisotropic meshes: a priori error estimates for the advection-diffusion and the Stokes problems. (English summary) **2004g:65157**
Miglio, Edie (*with* Quarteroni, Alfio; Saleri, Fausto) Mathematical modelling of free surface flows. **2004m:76057**
Minev, Peter D. *see* **Guermond, Jean Luc, 2004f:65138**; **2004h:65099** *and* **2004k:65172**
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Mokeev, V. V. On a method for vibration analysis of viscous compressible fluid-structure systems. (English summary) **2004m:74049**
Möller, Matthias *see* **Kuzmin, D. et al., 2004d:65112**
de Montmollin, Gautier *see* **Besson, Olivier, 2004m:65149**
Morin, Pedro *see* **Bänsch, Eberhard et al., 2004e:65127**
Mounim, A. Serghini A new mixed-hybrid finite element method for convection-diffusion problems. (English summary)
Munts, E. A. (*with* Hulshoff, S. J.; de Borst, R.) The partition-of-unity method for linear diffusion and convection problems: accuracy, stabilization and multiscale interpretation. (English summary) **2004f:65154**
Munz, Claus-Dieter *see* **Kemm, Friedemann et al., (2004e:65004)**
Murphy, Joseph E. (*with* Chin-Bing, Stanley A.) Computational ocean-seismoacoustic modeling using finite elements. (English summary) **2004i:76169**
Nachaoui, Abdeljalil *see* **Chakib, Abdelkrim et al., 2004b:76138** *and* **2004m:76149**
Nadeem, Sarfraz A. *see* **Jimack, Peter K., (2004j:00013)**
Naïmark, B. M. *see* **Ismail-zade, A. T. et al., 2004f:65139**
Nasir, H. M. (*with* Kako, Takashi; Koyama, Daisuke) A mixed-type finite element approximation for radiation problems using fictitious domain method. (English summary) **2004e:65133**
(Navon, I. M.) *see* **In honour of Professor Mutsuto Kawahara on the occasion of his 60th birthday**
Nečas, Jindřich *see* **Hron, Jaroslav et al., 2004e:76004**
Neslitürk, Ali (*with* Harari, Isaac) The nearly optimal Petrov-Galerkin method for convection-diffusion problems. (English summary) **2004c:65146**
Neta, Beny *see* **Givoli, Dan et al., 2004j:65143**
Nochetto, Ricardo H. *see* **Bänsch, Eberhard et al., 2004e:65127** *and* **Girault, Vivette et al.**
Nore, C. *see* **Guermond, Jean Luc et al., 2004i:76197**
Novotný, Jaroslav *see* **Burda, Pavel et al.**
Oñate, Eugenio (*with* García Espinosa, Julio) A finite element method for fluid-structure interaction with surface waves. (English summary) (*see* **2004m:74001**)
— Multiscale computational analysis in mechanics using finite calculus: an introduction. (English summary) **2004h:74067**
Orenga, Pierre *see* **Giacomoni, Catherine, 2004a:76114**
Oujja, Rachid *see* **Alvarez, Sixto J., 2004i:76068**
Pagalthivarthi, Krishnan V. (*with* Ramanathan, Veeraraghavan) Analytical and numerical prediction of inviscid free surface flow in rotating channel. (English summary) **2004a:76131**
Patera, Anthony T. (*with* Peraire, Jaime) A general Lagrangian formulation for the computation of a posteriori finite element bounds. (English summary) **2004b:65167**
Patlashenko, Igor *see* **Givoli, Dan et al., 2004j:65143** *and* **2004m:76121**
Pelletier, Dominique H. *see* **Turgeon, Éric et al., 2004j:76091**
Peraire, Jaime *see* **Patera, Anthony T., 2004b:65167**
Pereira, Felipe *see* **Almeida, César et al., 2004g:76111**
Perktold, Karl *see* **Leuprecht, Armin et al., 2004k:92015**
Perotto, Simona *see* **Formaggia, Luca et al., 2004a:65150** *and* **Micheletti, Stefano et al., 2004g:65157**
Picasso, Marco *see* **Micheletti, Stefano et al., 2004g:65157**
Pinchedez, Katia *see* **Ainsworth, Mark, 2004d:65137**
Pontaza, J. P. (*with* Reddy, J. N.) Spectral/*hp* least-squares finite element formulation for the Navier-Stokes equations. (English summary)
Potapov, I. I. *see* **Bulgakov, V. K., 2004b:65177**
Power, A. S. *see* **Mohr, G. A., 2004f:65194**
Proft, Jennifer *see* **Dawson, Clint, 2004k:65170**
Qin, Shu Jie *see* **Sun, Che, 2004c:65116**
Quarteroni, Alfio *see* **Miglio, Edie et al., 2004m:76057**
Rajagopal, Kumbakonam R. *see* **Hron, Jaroslav et al., 2004e:76004**
Ramanathan, Veeraraghavan *see* **Pagalthivarthi, Krishnan V., 2004a:76131**
Rappaz, Jacques *see* **Glowinski, Roland, 2004e:86022**
Ray, Michael B. *see* **Chen, Zhangxin et al., 2004a:86007**
Reddy, J. N. *see* **Pontaza, J. P.**
Remacle, Jean-François *see* **Krivodonova, Lilia et al.**
Ren, Chun-feng *see* **He, Yin Nian et al., 2004j:65145**
Rivière, Béatrice (*with* Wheeler, Mary F.) Non conforming methods for transport with nonlinear reaction. (English summary) **2004j:65148**
— *see also* **Bastian, Peter, 2004f:65177**
Robinson, Allen C. *see* **Bochev, Pavel B. et al., 2004g:65173**
Rodríguez, Rodolfo *see* **Bermúdez de Castro, Alfredo et al., 2004f:74087** *and* **Cascón, J. M. et al., 2004j:86001**
Rodríguez Gómez, David *see* **Chacón Rebollo, Tomás, 2004d:86001**
Rohde, Christian *see* **Dedner, Andreas et al., (2004d:00025)**
Rossi, Tuomo *see* **Heikkola, Erkki et al., 2004h:76135**
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76M12 Finite volume methods

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Hänel, Dieter *see* **Finite volumes for complex applications II, 2004k:65005** *and* **Lantermann, Udo et al.,** (**2004e:65004**)
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Kaiser, Rainer *see* **Lantermann, Udo et al.,** (**2004e:65004**)
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Lenz, Martin *see* **Grün, Günther et al.,** (**2004e:65004**)
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Liu, Jian-Guo[1] *see* **Chainais-Hillairet, Claire et al., 2004e:65093**
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Lützenkirchen, S. *see* **Botta, N. et al., 2004m:86005**
Macías Sánchez, Jorge *see* **Castro-Díaz, Manuel Jesús et al., 2004a:86002**
Martin, Vincent *see* **Jaffré, Jérôme et al.,** (**2004e:65004**)
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Moczala, M. *see* **Schmid, O. et al.,** (**2004k:65005**)
Morton, K. W. *see* **Roe, Philip L.,** (**2004k:65005**)
Morvan, Dominique Wildfire propagation modeling using a high order finite volume method. (English summary) (*see* **2004e:65004**)
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Parés, Carlos *see* **Castro-Díaz, Manuel Jesús et al., 2004a:86002**
Pascal, Frédéric FV method with characteristic flux: influence of the geometrical aspect of control volumes. (English summary) (*see* **2004e:65004**)
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Pasciak, Joseph E. *see* **Lazarov, Raytcho D. et al.,** (**2004k:65005**)
Pégaz-Fiornet, Sylvie *see* **Faille, Isabelle et al.,** (**2004e:65004**)
Pelanti, Marica Pressure linearization method for the computation of real fluids. (English summary) (*see* **2004j:00016**)
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Raghay, S. *see* **Al Moatassime, H. et al.,** (**2004k:65005**)
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St-Cyr, A. *see* **Arminjon, P., 2004e:65089** *and* (**2004j:00016**)
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Warnecke, Gerald G. *see* **Lukáčová-Medviďová, Mária et al.**, **2004d:65114**
Watkins, A. P. *see* **Beck, James Colin**, **2004e:76109**
Webster, M. F. *see* **Walters, Kenneth**
Wendebourg, J. *see* **Scheichl, R. et al.**, **2004j:76154**
Wesenberg, Matthias *see* **Dedner, Andreas et al.**, (**2004d:00025**) *and* (**2004j:00016**)
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Zhang, Laiping *see* **Wang, Zhi Jian[4] et al.**
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Zhou, X. D. *see* **Droniou, Jérôme et al.**, **2004f:65148**

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76M15 Boundary element methods

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Kohr, Mirela A boundary integral method for an oscillatory Stokes flow past two bodies. (English summary) (*see* **2004i:00014**)
Ludwig, B. *see* **Ha-Duong, Tuong et al.**, **2004j:76106**
Samec, N. *see* **Škerget, L.**, (**2004k:65004**)
Škerget, L. (*with* Samec, N.) BEM for compressible fluid dynamics. (English summary) (*see* **2004k:65004**)
Terrasse, I. *see* **Ha-Duong, Tuong et al.**, **2004j:76106**

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Cheng, C. Y. R. *see* **Wu, T. W. et al.**, (**2004k:65004**)
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Czygan, O. (*with* von Estorff, O.) An analytical fundamental solution of the transient scalar wave equation for axisymmetric systems. (English summary) **2004f:76014**
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Hong, Hong-Ki *see* **Chen, Jeng-Tzong et al.**, **2004d:76091**
Isakov, Victor *see* **DeLillo, Thomas et al.**, **2004d:76093**
Kögl, Martin *see* **Gaul, Lothar et al.**, **2004d:65149**
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Loewenberg, Michael *see* **Cunha, Francisco Ricardo**, **2004h:76057**
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Pozrikidis, C. *see* **Li, Xiaofan**, **2004f:76109**
Sarkissian, Angie Nearfield acoustical holography. (English summary) **2004j:76139**
Tadeu, A. *see* **Pereira, A.**, (**2004k:65004**)
Tausch, Johannes Sparse BEM for potential theory and Stokes flow using variable order wavelets. (English summary) **2004j:65202**
Valdivia, Nicolas *see* **DeLillo, Thomas et al.**, **2004d:76093**
Wagner, Marcus Michael *see* **Gaul, Lothar et al.**, **2004d:65149**
Wang, Lianju *see* **DeLillo, Thomas et al.**, **2004d:76093**
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Ye, Wenjing *see* **Ding, Jian**

76M20 Finite difference methods

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Ardelyan, N. V. *see* **Sablin, M. N.**, **2004c:76099**
Arnau, J. M. *see* **Ponsoda, E. et al.**
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Bae, Myung-whan *see* **Mochimaru, Yoshihiro**
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Baum, Joseph D. *see* **Luo, Hong[2] et al.**
Bell, A. R. *see* **Kingham, R. J.**
Belotserkovskaya, M. S. *see* **Trapeznikova, M. A. et al.**, **2004e:76085**
Bingham, Harry B. *see* **Fuhrman, David R.**
Biradar, K. S. *see* **Sharma, H. G.**
Bonazza, Riccardo *see* **Wang, Shao-Ping et al.**
de Bortoli, A. L. *see* **Pedroso, C. A.**
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Castelo Filho, Antonio *see* **Ferreira, V. G. et al., 2004j:76090**
Chacón Rebollo, Tomás (*with* Domínguez Delgado, Antonio; Fernández Nieto, Enrique D.) An entropy-correction free solver for non-homogeneous shallow water equations. (English summary) **2004m:76021**

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Chawla, M. M. *see* **Al-Zanaidi, M. A., 2004a:65096**

Chehab, Jean-Paul (*with* Costa, Bruno) Time explicit schemes and spatial finite differences splittings. (English summary) **2004k:65130**

Chen, Yi Gen *see* **Xing, J. T. et al.**

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Croft, T. Nicholas *see* **Christakis, Nicholas et al., (2004e:65004)**

Cui, Guo Zhong *see* **Jiang, Cheng Shun et al., 2004c:65106**

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Daily, Chris (*with* Imberger, Jörg) Modelling solitons under the hydrostatic and Boussinesq approximations. (English summary) **2004g:76026**

Dehghan, Mehdi Weighted finite difference techniques for the one-dimensional advection-diffusion equation. (English summary) **2004i:65074**

— Numerical solution of the three-dimensional advection-diffusion equation. (English summary) **2004k:65133**

Desjardins, Benoît *see* **Cournède, P.-H. et al., (2004e:65004)**

Dietz, William *see* **Steinhoff, John et al., 2004j:76120**

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Dorodnitsyn, L. V. (*with* Chetverushkin, Boris Nikolaevich) On a version of a quasi-gas-dynamic system of equations. (Russian. English and Russian summaries) **2004f:76093**

Dubroca, Bruno *see* **Ripoll, J. F. et al., 2004a:76118**

Dymnikov, V. P. Adjoint equations, integral conservation laws, and conservative difference schemes for equations of the dynamics of a two-dimensional ideal incompressible fluid. (Russian) **2004f:76030**

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Dzhgamadze, N. O. *see* **Criado, Francisco et al., 2004c:65088**

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Ern, Alexandre *see* **Bongiovanni, Emmanuel et al., (2004e:65004)**

Es'kov, N. S. *see* **Anuchina, N. N. et al.**

Essawy, A. H. *see* **Hassanien, I. A. et al., 2004m:76154**

Ewert, Roland *see* **Meinke, M. et al., (2004k:65005)**

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Feng, Min Fu (*with* Pan, Lu; Wang, Dian Zhi) Finite difference approximate solutions for the regularized long wave equation. (Chinese. English summary) **2004j:65115**

Fernández Nieto, Enrique D. *see* **Chacón Rebollo, Tomás et al., 2004m:76021**

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Forestier, Alain *see* **Xeuxet, Emmanuelle et al., (2004k:65005)**

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Frid, Hermano Correction to: "Maps of convex sets and invariant regions for finite-difference systems of conservation laws" [Arch. Ration. Mech. Anal. **160** (2001), no. 3, 245–269]. **2004k:35254**

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Galanin, M. P. (*with* Yelenina, T. G.) Nonlinear monotonization of the Babenko scheme. (English and Lithuanian summaries) **2004i:65077**

Gallice, Gérard Positive and entropy stable Godunov-type schemes for gas dynamics and MHD equations in Lagrangian or Eulerian coordinates. (English summary) **2004e:65094**

Gallouët, Thierry (*with* Hérard, Jean-Marc; Seguin, Nicolas) On the use of symmetrizing variables for vacuums. (English summary) **2004j:65116**

Gao, Li Ping *see* **Jiang, Cheng Shun et al., 2004c:65106**

Gaponenko, Yu. A. *see* **Aristov, S. N. et al., 2004h:76070**

García, Juan Antonio *see* **Gascón, M. Ll., 2004a:65103**

Gascón, M. Ll. (*with* García, Juan Antonio) About the TVD property for the flux-corrected transport techniques. (English summary) **2004a:65103**

Gaspar, Francisco J. (*with* Lisbona, Francisco J.; Vabishchevich, Petr N.) Finite difference scheme for filtration and consolidation problems. (English summary) (*see* **2004j:65007**)

Gasser, Ingenuin An asymptotic-induced one-dimensional model to describe fires in tunnels. II. The stationary problem. (English summary) **2004g:80008**

Geiser, Jürgen *see* **Frolkovič, Peter, (2004j:65007)**

Geratz, K. J. *see* **Munz, Claus-Dieter et al., 2004a:76105**

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Glinsky-Olivier, Nathalie *see* **Bongiovanni, Emmanuel et al., (2004e:65004)**

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Grahs, Thorsten (*with* Meister, Andreas[2]; Sonar, Thomas) Nonlinear anisotropic artificial dissipation: characteristic filters for computation of the Euler equations. (English summary) (*see* **2004k:65005**)

(Hafez, Mohamed M.) *see* **Computational fluid dynamics for the 21st century, 2004d:76003**

Halim, A. A. (*with* Kshevetskii, S. P.; Leble, Sergei B.) Approximate solution for Euler equations of stratified water via numerical solution of coupled KdV system. (English summary) **2004j:76015**

Hanss, Grégoire *see* **Lerat, Alain et al., (2004d:76003)**

Haque, Aamer *see* **Wallin, John F., (2004d:65005)**

Hassanien, I. A. (*with* Essawy, A. H.; Moursy, N. M.) Natural convection flow of micropolar fluid from a permeable uniform heat flux surface in porous medium. (English summary) **2004m:76154**

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Hayryan, Edik A. *see* **Pavluš, Miron, (2004j:00014)**

Hérard, Jean-Marc *see* **Gallouët, Thierry et al., 2004j:65116** *and* **Xeuxet, Emmanuelle et al., (2004k:65005)**

Ilyutina, O. S. *see* **Anuchina, N. N. et al.**

Imberger, Jörg *see* **Daily, Chris, 2004g:76026**

Iovieno, M. (*with* Tordella, D.) Variable scale filtered Navier-Stokes equations: a new procedure to deal with the associated commutation error. (English summary) **2004e:76075**

Ismail, M. S. (*with* Bratsos, A. G.) A predictor-corrector scheme for the numerical solution of the Boussinesq equation. (English summary) **2004m:65122**

Jiang, Cheng Shun (*with* Gao, Li Ping; Cui, Guo Zhong) The characteristic finite difference method and analysis for some semi-linear reaction-convection-diffusion models. (Chinese. English summary) **2004c:65106**

Jiang, Li[2] (*with* Liu, Chaoqun) Applications of weighted compact scheme to curvilinear system. (English summary) (*see* **2004j:65007**)

Jiang, Song *see* **Liu, Quan, 2004d:76028**

Jin, Shi *see* **Bao, Weizhu, 2004c:65084**

Johnston, Hans *see* **Liu, Jian-Guo[1] et al., 2004k:65141**

Junk, Michael *see* **Banda, Mapundi K. et al., 2004d:65085**

Kačur, Jozef (*with* Van Keer, Roger) Contaminant transport with adsorption in dual-well flow. (English summary) **2004m:76156**

Kafoussias, N. G. *see* **Tzirtzilakis, E. E., 2004f:76127**

Kamm, James R. *see* **Rider, William J. et al., (2004j:00016)**

Karaguler, Turhan *see* **Rasulov, Mahir et al., 2004k:35246**

Karamzin, Yu. N. (*with* Popov, I. V.; Polyakov, S. V.) Difference methods in problems of continuum mechanics on triangular and tetrahedral grids. (Russian. English and Russian summaries)

Karasözen, B. (*with* Tsybulin, Vyacheslav) Cosymmetric families of steady states in Darcy convection and their collision. (English summary) **2004k:76114**

Karlsen, Kenneth Hvistendahl *see* **Bürger, Raimund et al., 2004m:35175**

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Khakimzyanov, G. S. (*with* Khazhoyan, M. G.) Numerical simulation of the interaction between surface waves and submerged obstacles. (English summary) **2004k:76021**

Khazhoyan, M. G. *see* **Khakimzyanov, G. S., 2004k:76021**

Kim, Seongjai Compact schemes for acoustics in the frequency domain. (English summary) **2004f:65159**

Klar, Axel *see* **Banda, Mapundi K. et al., 2004d:65085**

Klein, Rupert *see* **Munz, Claus-Dieter et al., 2004a:76105**

Kondic, L. Instabilities in gravity driven flow of thin fluid films. (English summary) **2004c:76012**

Kozyrev, O. M. *see* **Anuchina, N. N. et al.**

Kshevetskii, S. P. *see* **Halim, A. A. et al., 2004j:76015**

Kurganov, Alexander Central-upwind schemes for balance laws. Application to the Broadwell model. (English summary) (*see* **2004e:65004**)

Kurganov, D. V. (*with* Mazhorova, O. S.; Popov, Yu. P.) A matrix method for computing Navier-Stokes equations in natural variables. (Russian. Russian summary) **2004f:76039**

Kurganov, Dmitri On the numerical solution of a minimization problem in modeling stratum systems. (Russian. Russian summary)

Kwon, Jang Hyuk *see* **Park, Soo Hyung, 2004d:65092**

Labropulu, F. (*with* Xu, Xiuyuan; Chinichian, M.) Unsteady stagnation point flow of a non-Newtonian second-grade fluid. (English summary)

Leble, Sergei B. *see* **Halim, A. A. et al., 2004j:76015**

Le Penven, L. *see* **Le Ribault, C. et al., (2004e:65004)**

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Le Ribault, C. (*with* Le Penven, L.; Buffat, M.) LES and DNS of transition in the compressed Taylor vortex flow using a finite volume/finite element method. (English summary) (*see* **2004e:65004**)
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Li, Zhilin (*with* Wang, Cheng[4]) A fast finite difference method for solving Navier-Stokes equations on irregular domains. (English summary) **2004c:65093**
Lin, Chi-Tien New high-resolution central-upwind schemes for nonlinear hyperbolic conservation laws. (English summary) (*see* **2004j:00016**)
Linß, Torsten Analysis of an upwind difference scheme on arbitrary meshes for convection-diffusion problems. (English summary) **2004m:65095**
— Layer-adapted meshes for convection-diffusion problems. (English summary) **2004a:65166**
Lisbona, Francisco J. *see* **Gaspar, Francisco J. et al.**, (**2004j:65007**)
Liu, Chaoqun *see* **Jiang, Li[2]**, (**2004j:65007**)
Liu, Jian-Guo[1] (*with* Wang, Cheng[4]; Johnston, Hans) A fourth order scheme for incompressible Boussinesq equations. (English summary) **2004k:65141**
— (*with* Wang, Cheng[4]) High order finite difference methods for unsteady incompressible flows in multi-connected domains. (English summary) **2004k:65142**
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Liu, Miao'er *see* **Ren, Yu-Xin et al.**, **2004j:65136**
Liu, Quan (*with* Jiang, Song) Global existence and numerical approximation in adiabatic shearing of incompressible fluids. (English summary) **2004d:76028**
Liu, Yun Xian Characteristic element methods and H^1 error estimates for a semiconductor problem. (Chinese. English and Chinese summaries)
Llor, A. *see* **Cournède, P.-H. et al.**, (**2004e:65004**)
Lok, Y. Y. (*with* Amin, Norsarahaida; Pop, Ioan[2]) Steady two-dimensional asymmetric stagnation point flow of a micropolar fluid. (English summary) **2004f:76007**
Luo, Zhen Dong (*with* Zhu, Jiang[3]; Xie, Zheng Hui; Zhang, Gui Fang) Difference scheme and numerical simulation based on mixed finite element method for natural convection problem. (Chinese. English and Chinese summaries)
Ma, Yi Chen *see* **Qin, Xin Qiang**
Makhanov, Stanislav S. (*with* Semenov, Andrei Yu.) Six numerical schemes for parabolic initial boundary value problems with a priori bounded solution. (English summary) **2004i:65086**
Mandal, A. *see* **Chakravarty, Santabrata et al.**
Mandal, Prasanta Kumar An unsteady analysis of nonlinear two-layered 2D model of pulsatile flow through stenosed arteries. (English and Lithuanian summaries)
— *see also* **Chakravarty, Santabrata et al.**
Mangiavacchi, N. *see* **Ferreira, V. G. et al.**, **2004j:76090**
Mansutti, D. *see* **Bucchignani, E.**
Margolin, Len G. *see* **Rider, William J. et al.**, (**2004j:00016**)
Marinov, Anca Marina A two dimensional mathematical model for simulating water and chemical transport in an unsaturated soil. (English summary)
Marinov, Tchavdar T. *see* **Marinova, Rossitza S. et al.**
Marinova, Rossitza S. (*with* Takahashi, Tadayasu; Aiso, Hideaki; Christov, Christo I.; Marinov, Tchavdar T.) Conservation properties of vectorial operator splitting. (English summary)
— *see also* **Axelsson, Owe**, **2004g:65140**
Marmignon, Claude *see* **Coquel, Frédéric**, (**2004k:65005**)
Marquina, Antonio *see* **Serna, Susana**, **2004j:65124**
Martí, José Maria (*with* Müller, Ewald) Numerical hydrodynamics in special relativity. (English summary) **2004j:76180**
Massoudi, Mehrdad Boundary layer flow of a second grade fluid with variable heat flux at the wall. (English summary) **2004c:76007**
Mattsson, Ken (*with* Svärd, Magnus; Nordström, Jan) Stable and accurate artificial dissipation. (English summary)
Mazhorova, O. S. *see* **Kurganov, D. V. et al.**, **2004f:76039**
McKee, Sean *see* **Ferreira, V. G. et al.**, **2004j:76090**
Meinke, M. (*with* Rister, Th.; Ewert, Roland) A comparison of finite volume and high-order finite difference schemes for the solution of the Navier-Stokes and Euler equations. (English summary) (*see* **2004k:65005**)
Meister, Andreas[2] *see* **Grahs, Thorsten et al.**, (**2004k:65005**)
Meladze, Gamlet *see* **Criado, Francisco et al.**, **2004c:65088**
Monakhov, V. N. *see* **Zhumagulov, B. T.**, **2004k:76120**
Mophou, Gisèle (*with* Poullet, Pascal) A split Godunov scheme for solving one-dimensional hyperbolic systems in a nonconservative form. (English summary) **2004a:65109**
(Morinishi, Koji) *see* **Computational fluid dynamics for the 21st century**, **2004d:76003**
Moshkin, N. P. (*with* Mounnamprang, P.) Numerical simulation of vortical ideal fluid flow through curved channel. (English summary) **2004a:76028**
Mounnamprang, P. *see* **Moshkin, N. P.**, **2004a:76028**
Moursy, N. M. *see* **Hassanien, I. A. et al.**, **2004m:76154**
Müller, Ewald *see* **Siebel, Florian et al.**, **2004i:83003** *and* **Martí, José Maria**, **2004j:76180**
Munz, Claus-Dieter (*with* Roller, S.; Klein, Rupert; Geratz, K. J.) The extension of incompressible flow solvers to the weakly compressible regime. (English summary) **2004a:76105**
Murashkina, K. B. (*with* Paskonov, V. M.) Numerical analysis of the boundary-value problem for a nonlinear Korteweg-de Vries-Burgers equation. (English summary)
Muthucumaraswamy, R. Natural convection on flow past an impulsively started vertical plate with variable surface heat flux. (English summary)
Muzaev, Illarion Davidovich (*with* Tuaeva, Zh. D.) A simplified mathematical-computer model of a regional freshet. (Russian. Russian summary)
Naidoo, R. (*with* Baboolal, S.) Adaptation and assessment of a high resolution semi-discrete numerical scheme for hyperbolic systems with source terms and stiffness. (English summary) (*see* **2004j:00013**)
Neta, Beny *see* **Givoli, Dan**, **2004b:65116**
Niu, Xiaoling *see* **Shen, Meng Yu et al.**, **2004k:65146**
Noelle, Sebastian The MoT-ICE: a new high-resolution wave-propagation algorithm based on Fey's method of transport. (English summary) (*see* **2004k:65005**)
Nordström, Jan *see* **Mattsson, Ken et al.**
van Odyck, D. E. A. Review of numerical special relativistic hydrodynamics. (English summary)
O'Riordan, Eugene (*with* Shishkin, Grigorii I.) Singularly perturbed parabolic problems with non-smooth data. (English summary)
(Orlandi, Paolo) *see* **Fluid flow phenomena**, **2004m:76001**
Pan, Lu *see* **Feng, Min Fu et al.**, **2004j:65115**
Papadopoulos, Philippos *see* **Siebel, Florian et al.**, **2004i:83003**
Park, Soo Hyung (*with* Kwon, Jang Hyuk) On the dissipation mechanism of Godunov-type schemes. (English summary) **2004d:65092**
Paskonov, V. M. *see* **Murashkina, K. B.**
Patel, Mayur K. *see* **Christakis, Nicholas et al.**, (**2004e:65004**)
Pavluš, Miron (*with* Hayryan, Edik A.) Parallel realization of difference schemes of filtration problem in a multilayer system. (English summary) (*see* **2004j:00014**)
(Périaux, Jacques F.) *see* **Computational fluid dynamics for the 21st century**, **2004d:76003**
Peskin, Charles S. The immersed boundary method. (English summary) **2004h:74029**
Polyakov, S. V. *see* **Karamzin, Yu. N. et al.**
Pontrelli, Giuseppe (*with* Rossoni, Enrico) Numerical modelling of the pressure wave propagation in the arterial flow. (English summary) **2004j:92021**
Pop, Ioan[2] *see* **Lok, Y. Y. et al.**, **2004f:76007**
Popov, Aleksandr Vladimirovich *see* **Slugin, D. G.**, **2004h:65086**
Popov, I. V. *see* **Karamzin, Yu. N. et al.**
Popov, Yu. P. *see* **Kurganov, D. V. et al.**, **2004f:76039**
Poullet, Pascal *see* **Mophou, Gisèle**, **2004a:65109**
Praveen, C. *see* **Balakrishnan, Narayanrao**, (**2004k:65005**)
Price, W. G. *see* **Xing, J. T. et al.**
Qin, Xin Qiang (*with* Ma, Yi Chen) A two-grid scheme of characteristic difference solution for a 1D nonlinear convection-dominated diffusion problem. (Chinese. English and Chinese summaries)
Rad, Mani (*with* Roe, Philip L.) An Euler code that can compute potential flow. (English summary) (*see* **2004k:65005**)
Rao, Prasada A parallel hydrodynamic model for shallow water equations. (English summary) **2004j:76018**
Rasulov, Mahir (*with* Karaguler, Turhan; Sinsoysal, Bahaddin) Finite difference method for solving boundary initial value problem of a system hyperbolic equations in a class of discontinuous functions. (English summary) **2004k:35246**
Ratish Kumar, B. V. *see* **Satpathi, D. K. et al.**
Reignier, Didier *see* **Berthon, Christophe**, **2004e:65090**
Ren, Yu-Xin (*with* Liu, Miao'er; Zhang, Hanxin) A characteristic-wise hybrid compact-WENO scheme for solving hyperbolic conservation laws. (English summary) **2004j:65136**
Rider, William J. (*with* Margolin, Len G.; Kamm, James R.) Adaptive time integration for hyperbolic conservation equations. (English summary) (*see* **2004j:00016**)
Ripoll, J. F. (*with* Dubroca, Bruno; Audit, E.) A factored operator method for solving coupled radiation-hydrodynamics models. (English summary) **2004a:76118**
Risebro, Nils Henrik *see* **Bürger, Raimund et al.**, **2004m:35175**
Rister, Th. *see* **Meinke, M. et al.**, (**2004k:65005**)
Roe, Philip L. *see* **Rad, Mani**, (**2004k:65005**)
Rogers, Benedict D. (*with* Borthwick, Alistair G. L.; Taylor, Paul H.) Mathematical balancing of flux gradient and source terms prior to using Roe's approximate Riemann solver. (English summary) **2004k:76085**
Roller, S. *see* **Munz, Claus-Dieter et al.**, **2004a:76105**
Rossoni, Enrico *see* **Pontrelli, Giuseppe**, **2004j:92021**
Russo, Giovanni Central schemes for balance laws. (English summary) **2004a:65110**
Sacco, Riccardo *see* **Ballestra, Luca V.**, **2004m:82149**
Salama, Abdelhay Azoz *see* **Hassanien, I. A. et al.**, **2004j:76064**
Sanders, Richard (*with* Sever, Michael) The numerical study of singular shocks regularized by small viscosity. (English summary) **2004m:35181**
dos Santos, Marcelo Martins *see* **Cunha, M. C. C. et al.**
(Satofuka, Nobuyuki) *see* **Computational fluid dynamics for the 21st century**, **2004d:76003**
Satpathi, D. K. (*with* Ratish Kumar, B. V.; Chandra, Peeyush) Unsteady-state laminar flow of viscoelastic gel and air in a channel: application to mucus transport in a cough machine simulating trachea. (English summary)
Savel'ev, A. D. Computations of viscous gas flows based on the $(q$-$v)$-model of turbulence. (Russian. Russian summary) **2004c:76081**
Sebastian, Kurt (*with* Shu, Chi-Wang) Multidomain WENO finite difference method with interpolation at subdomain interfaces. (English summary) **2004m:65129**
Seguin, Nicolas *see* **Gallouët, Thierry et al.**, **2004j:65116**
Sekerka, Robert F. *see* **Sofonea, Victor**, **2004h:76125**
Semenov, Andrei Yu. *see* **Makhanov, Stanislav S.**, **2004i:65086**
Serna, Susana (*with* Marquina, Antonio) Power ENO methods: a fifth-order accurate weighted power ENO method. (English summary) **2004j:65124**
Sethian, James A. (*with* Smereka, Peter) Level set methods for fluid interfaces. (English summary) **2004b:76117**
Sever, Michael *see* **Sanders, Richard**, **2004m:35181**
Shakhov, E. M. The flow of a rarefied gas between coaxial cylinders under the action of a pressure gradient. (Russian. Russian summary) **2004g:76106**
Shelley, Michael J. *see* **Tornberg, Anna-Karin**, **2004m:76164**
Shen, Meng Yu (*with* Zhang, Zhibin; Niu, Xiaoling) A new way for constructing high accuracy shock-capturing generalized compact difference schemes. (English summary) **2004k:65146**
Shishkin, Grigorii I. *see* **O'Riordan, Eugene**
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Siddiqui, Abu Zar A. *see* **Anwar Kamal, Muhammad**, **2004k:76006**
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76M22 Spectral methods

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Brandt, Achi *see* **Thomas, James L. et al., 2004b:76118**
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Butler, J. S. (*with* Miller, John J. H.; Shishkin, Grigorii I.) A Reynolds-uniform numerical method for Prandtl's boundary layer problem for flow past a wedge. (English summary) **2004j:76115**
Castelo Filho, Antonio *see* **Grossi, Luciane et al.** *and* **de Sousa, F. S. et al.**
Chang, Kou-Kung Alex An error analysis of front-tracking scheme for miscible two phase flow. (English summary) **2004j:76116**
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Colicchio, G. (*with* Landrini, M.) On the use of boundary-integral equation methods for unsteady free-surface flows. (English summary) **2004d:76080**
Constantin, Peter *see* **Ohkitani, K., 2004h:76123**
Coquel, Frédéric *see* **Berthon, Christophe, (2004k:65005)**
Cortes, Julien *see* **Kumbaro, A. et al., (2004k:65005)**
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Denaro, Filippo Maria On the application of the Helmholtz-Hodge decomposition in projection methods for incompressible flows with general boundary conditions. (English summary) **2004g:76096**
— *see also* **Iannelli, Pierluigi, 2004c:76108**
Diao, Xu *see* **Pan, Hua et al.**
Dietz, H. G. *see* **Hauser, Th. et al., 2004m:76122**
Dietz, William *see* **Steinhoff, John et al., 2004j:76120**
Diskin, Boris *see* **Thomas, James L. et al., 2004b:76118**
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Dubois, François Vorticity-velocity-pressure formulation for the Stokes problem. (English summary) **2004c:76107**
— *see also* **Abboud, Toufic et al., 2004b:76110**
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Ewert, Roland (*with* Schröder, Wolfgang[2]) Acoustic perturbation equations based on flow decomposition via source filtering. (English summary) **2004d:76082**
Fan, Meng[2] *see* **Steinhoff, John et al., 2004j:76120**
Farge, Marie (*with* Schneider, Kai) Analysing and computing turbulent flows using wavelets. (English summary) **2004g:76097**
Farhat, Charbel *see* **Hetmaniuk, Ulrich, 2004g:76098**
Fast, Petri (*with* Shelley, Michael J.) A moving overset grid method for interface dynamics applied to non-Newtonian Hele-Shaw flow. (English summary) **2004k:76091**
de Felice, G. (*with* Marra, F. S.; Rufolo, G. C.) Regularized solutions for the discrete forms of the div-curl problem in CFD. (English summary) **2004f:76086**
Ferziger, Joel H. *see* **Tseng, Yu-Heng**
Forestier, M. Y. *see* **Botella, Olivier et al., 2004b:76112**
Frank, A. M. 3D numerical simulation of regular structure formation in a locally heated falling film. (English summary) **2004h:76122**
Fraunié, Philippe *see* **Biausser, Benjamin et al.**
Galdi, Giovanni P. *see* **Pan, Tsorng-Whay et al.**
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García-Navarro, P. *see* **Brufau, P., 2004b:76114**
Geratz, K. J. *see* **Munz, Claus-Dieter et al., 2004a:76105**
Giles, Michael B. Non-reflecting boundary conditions for Euler equation calculations. (English summary) (*see* **2004k:76003**)
Givoli, Dan (*with* Patlashenko, Igor) Optimal local absorbing boundary conditions for problems in infinite domains. (English summary) **2004m:76121**
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Glimm, James *see* **Dutta, Srabasti et al.**
Glinsky-Olivier, Nathalie *see* **Bongiovanni, Emmanuel et al., 2004c:76104**
Glowinski, Roland *see* **Pan, Tsorng-Whay et al.**
Goedbloed, J. P. *see* **Keppens, R. et al., 2004i:76152**
Goodrich, John *see* **Hagstrom, Thomas et al., (2004k:76003)**
Grasso, F. (*with* Pirozzoli, S.) Numerical simulations of the coupling process of compressible vortices. (English summary) (*see* **2004d:76003**)
Grossi, Luciane (*with* Tomé, M. F.; Castelo Filho, Antonio; Mangiavacchi, N.; Cuminato, J. A.) Numerical methods for simulating the planar contraction of Oldroyd-B fluids. (Portuguese. English and Portuguese summaries)
Grove, John W. *see* **Dutta, Srabasti et al.**
Gu, Yun *see* **Zhou, Yong Cheng et al., 2004c:76111**
Guignard, Stephan *see* **Biausser, Benjamin et al.**
Habashi, Wagdi G. *see* **Remaki, L. et al., 2004a:76107**
Hadjadj, A. *see* **Yee, H. C. et al., (2004d:76003)**
Hafez, Mohamed M. On the incompressible limit of compressible fluid flow. (English summary) (*see* **2004d:76003**)
Hagen, Greg *see* **Protas, Bartosz et al., 2004j:76118**
Hagstrom, Thomas (*with* Xu, Liyang; Goodrich, John) On the theory of exact and approximate boundary conditions for linearized compressible flow problems. (English summary) (*see* **2004k:76003**)
Haldenwang, Pierre *see* **Garba, Abdou**
Hanich, L. (*with* Louaked, M.) TVD-interpolating matrix method prediction of flow with heat transfer. (English summary) **2004i:76150**
Hauser, Th. (*with* Mattox, T. I.; Lebeau, R. P.; Dietz, H. G.; Huang, P. G.) Code optimizations for complex microprocessors applied to CFD software. (English summary) **2004m:76122**
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Hetmaniuk, Ulrich (*with* Farhat, Charbel) A fictitious domain decomposition method for the solution of partially axisymmetric acoustic scattering problems. II. Neumann boundary conditions. (English summary) **2004g:76098**
Hixon, Ray Radiation and wall boundary conditions for computational aeroacoustics: a review. (English summary)
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Huan, Guanren *see* **Chen, Zhangxin et al.**
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Huang, P. G. *see* **Hauser, Th. et al., 2004m:76122**
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Hussaini, M. Y. *see* **Abarbanel, S. et al., 2004j:76114**
Iannelli, Pierluigi (*with* Denaro, Filippo Maria) Analysis of the local truncation error in the pressure-free projection method for incompressible flows: a new accurate expression of the intermediate boundary conditions. (English summary) **2004c:76108**
Ingber, Marc S. *see* **Brown, Mary J. et al., 2004i:76148**
Issa, Raad I. *see* **Oliveira, Paulo J.**
Jai, Mohammed *see* **Buscaglia, Gustavo C., 2004k:76090**
John, Volker On smoothness in parallel coupled multigrid methods for incompressible Navier-Stokes equations. (English summary) (*see* **2004h:00025**)
Kang, Kyungkeun *see* **Kim, Junseok et al., 2004j:76117**
Karniadakis, George Em *see* **Xiu, Dongbin, 2004c:76110**; **Lucor, Didier et al., 2004i:76153** *and* **Sirisup, S., 2004j:76119**
Keppens, R. (*with* Louter-Nool, Margreet; Tóth, Gábor Zsolt; Goedbloed, J. P.) Adaptive mesh refinement for conservative systems: multi-dimensional efficiency evaluation. (English summary) **2004i:76152**
Khushalani, Bharat *see* **Newton, Paul K., 2004a:76106**
Kim, Junseok (*with* Kang, Kyungkeun; Lowengrub, John) Conservative multigrid methods for Cahn-Hilliard fluids. (English summary) **2004j:76117**
King, P. I. *see* **Anttonen, J. S. R. et al.**
Klar, Axel (*with* Pareschi, Lorenzo; Seaïd, Mohammed) Uniformly accurate schemes for relaxation approximations to fluid dynamic equations. (English summary)
Klein, Rupert *see* **Munz, Claus-Dieter et al., 2004a:76105** *and* **Schneider, Thomas, (2004k:65005)**
Kropinski, Mary Catherine A. Time-evolving interfaces in a stokes flow. (English summary) (*see* **2004h:00025**)
Kumbaro, A. (*with* Toumi, I.; Cortes, Julien) Two perturbation methods to upwind the Jacobian matrix of two-fluid flow models. (English summary) (*see* **2004k:65005**)

Kuttykozhaeva, Sh. N. (*with* Zhumagulov, B. T.; Smagulov, Sh. S.) An unimprovable estimate for the rate of convergence of the solution in the method of fictitious domains for Navier-Stokes equations. (Russian) **2004f:76087**

Lai, Ming-Jun (*with* Wenston, Paul) Bivariate splines for fluid flows. (English summary) **2004m:76123**

Landrini, M. *see* **Colicchio, G., 2004d:76080**

Lanteri, Stéphane *see* **Dolean, Victorita et al., 2004a:76104**

Laval, J.-P. (*with* Dubrulle, B.; Nazarenko, S. V.) Fast numerical simulations of 2D turbulence using a dynamic model for subfilter motions. (English summary) **2004m:76124**

Lebeau, R. P. *see* **Hauser, Th. et al., 2004m:76122**

Leinen, Peter Realization of the finite mass method. (English summary) (*see* **2004j:00013**)

Li, Baoyan *see* **Chen, Zhangxin et al.**

Lin, R. K. *see* **Sheu, Tony W. H.**

Liu, Gui-Rong *see* **Pan, Hua et al.**

Logashenko, D. *see* **Wittum, Gabriel et al., (2004d:00011)**

Löhner, Rainald *see* **Sharov, D. M. et al.**

Louaked, M. *see* **Hanich, L., 2004i:76150**

Louter-Nool, Margreet *see* **Keppens, R. et al., 2004i:76152**

Lowengrub, John *see* **Kim, Junseok et al., 2004j:76117**

Lucor, Didier (*with* Xiu, Dongbin; Su, C.-H.; Karniadakis, George Em) Predictability and uncertainty in CFD. (English summary) **2004i:76153**

Luo, Hong[2] *see* **Sharov, D. M. et al.**

Maar, Bernd *see* **Wittum, Gabriel et al., (2004d:00011)**

Maliska, Clovis R. *see* **Marcondes, Francisco et al.**

Mammoli, Andrea A. *see* **Brown, Mary J. et al., 2004i:76148**

Mangiavacchi, N. *see* **Grossi, Luciane et al.** *and* **de Sousa, F. S. et al.**

Marcer, Richard *see* **Biausser, Benjamin et al.**

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Marra, F. S. *see* **de Felice, G. et al., 2004f:76086**

Martin, Véronique An optimized Schwarz waveform relaxation method for the unsteady convection diffusion equation in two dimensions. (English summary) **2004m:76125**

Mattox, T. I. *see* **Hauser, Th. et al., 2004m:76122**

Meziani, Bachir *see* **Amaouche, Mustapha, 2004a:76103**

Mezine, Mohamed *see* **Abgrall, Rémi, (2004g:76003)**

Miller, Daniel J. *see* **Miller, Timothy F., 2004b:76115**

Miller, John J. H. *see* **Butler, J. S. et al., 2004j:76115**

Miller, Timothy F. (*with* Miller, Daniel J.) A Fourier analysis of the IPSA/PEA algorithms applied to multiphase flows with mass transfer. (English summary) **2004b:76115**

Mokkapati, Ramakrishna *see* **Ramachandran, Prabhu et al., 2004g:76099**

Morgan, Patrick *see* **Armfield, S. et al., (2004g:76003)**

Munz, Claus-Dieter (*with* Roller, S.; Klein, Rupert; Geratz, K. J.) The extension of incompressible flow solvers to the weakly compressible regime. (English summary) **2004a:76105**

Nataf, Frédéric *see* **Dolean, Victorita et al., 2004a:76104**

Nazarenko, S. V. *see* **Laval, J.-P. et al., 2004m:76124**

Neta, Beny *see* **Givoli, Dan, 2004i:76149**

Newton, Paul K. (*with* Khushalani, Bharat) Integrable decomposition methods and ensemble averaging for non-integrable N-vortex problems. (English summary) **2004a:76106**

Ng, Teng Yong *see* **Pan, Hua et al.**

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Nishida, Kotoba Numerical method for Oseen's linearized equations in three-dimensional exterior domains. (English summary)

Nkonga, Boniface *see* **Abgrall, Rémi et al., 2004b:76111**

Nonato, L. G. *see* **de Sousa, F. S. et al.**

Nordström, Jan Model problems and the analysis of boundary procedures in CFD. (English summary) (*see* **2004k:76003**)

Norris, S. *see* **Armfield, S. et al., (2004g:76003)**

Novikov, Alexei Eddy viscosity of cellular flows by upscaling. (English summary) **2004k:76092**

Oğuz, H. N. *see* **Takagi, Shu et al., 2004f:76088**

Ohkitani, K. (*with* Constantin, Peter) Numerical study of the Eulerian-Lagrangian formulation of the Navier-Stokes equations. (English summary) **2004h:76123**

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Patlashenko, Igor *see* **Givoli, Dan, 2004m:76121**

Peszyńska, Małgorzata Advanced techniques and algorithms for reservoir simulation. III. Multiphysics coupling for two phase flow in degenerate conditions. (English summary) **2004b:76116**

Petcu, Dana (*with* Vizman, Daniel; Popescu, Monica) Computational fluid dynamics on a cluster. (English summary)

Peyret, R. *see* **Botella, Olivier et al., 2004b:76112**

Pirozzoli, S. *see* **Grasso, F., (2004d:76003)**

Poncet, Philippe *see* **Cottet, Georges-Henri**

Popescu, Monica *see* **Petcu, Dana et al.**

Prosperetti, Andrea *see* **Takagi, Shu et al., 2004f:76088**

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Rajan, S. C. *see* **Ramachandran, Prabhu et al., 2004g:76099**

Ramachandran, Prabhu (*with* Rajan, S. C.; Mokkapati, Ramakrishna) A fast, two-dimensional panel method. (English summary) **2004g:76099**

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Reich, Sebastian *see* **Cotter, C. J., 2004m:76119**

Remaki, L. (*with* Beaugendre, H.; Habashi, Wagdi G.) ISOD—an anisotropic isovalue-oriented diffusion artificial viscosity for the Euler and Navier-Stokes equations. (English summary) **2004a:76107**

Rivkind, Liudmila S. *see* **Turek, Stefan et al.**

Rohde, Christian *see* **Dedner, Andreas et al., (2004j:00016)**

Roller, S. *see* **Munz, Claus-Dieter et al., 2004a:76105**

Rufolo, G. C. *see* **de Felice, G. et al., 2004f:76086**

Russell, David Baker (*with* Wang, Z. Jane) A Cartesian grid method for modeling multiple moving objects in 2D incompressible viscous flow. (English summary) **2004g:76100**

Sabbah, Cyril *see* **Botella, Olivier et al., 2004b:76112**

Salaün, Michel *see* **Abboud, Toufic et al., 2004b:76110**

Salmon, Stéphanie *see* **Abboud, Toufic et al., 2004b:76110**

Sandham, N. D. *see* **Yee, H. C. et al., (2004d:76003)**

Sathe, Sunil *see* **Tezduyar, Tayfun E.**

Saurel, Richard *see* **Abgrall, Rémi et al., 2004b:76111** *and* **2004c:76103**

Schneider, Kai *see* **Farge, Marie, 2004g:76097**

Schneider, Thomas (*with* Klein, Rupert) Overcoming mass losses in level set-based interface tracking schemes. (English summary) (*see* **2004k:65005**)

Schröder, Wolfgang[2] *see* **Ewert, Roland, 2004d:76082**

Schulz, Volker *see* **Wittum, Gabriel et al., (2004d:00011)**

Schwendeman, Donald W. *see* **Henshaw, William D., 2004i:76151**

Seaïd, Mohammed *see* **Klar, Axel et al.**

Segal, August *see* **Wenneker, I. et al., 2004b:76120**

Sethian, James A. (*with* Smereka, Peter) Level set methods for fluid interfaces. (English summary) **2004b:76117**

Shariff, Karim *see* **Botella, Olivier, 2004b:76113**

Sharov, D. M. (*with* Luo, Hong[2]; Baum, Joseph D.; Löhner, Rainald) Unstructured Navier-Stokes grid generation at corners and ridges. (English summary)

Sharp, David H. *see* **Dutta, Srabasti et al.**

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Shishkin, Grigorii I. *see* **Butler, J. S. et al., 2004j:76115**

Sirisup, S. (*with* Karniadakis, George Em) A spectral viscosity method for correcting the long-term behavior of POD models. (English summary) **2004j:76119**

Sjögreen, Björn *see* **Yee, H. C. et al., (2004d:76003)**

Smagulov, Sh. S. *see* **Kuttykozhaeva, Sh. N. et al., 2004f:76087**

Smereka, Peter *see* **Sethian, James A., 2004b:76117**

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Stanescu, Dan *see* **Abarbanel, S. et al., 2004j:76114**

Steinhoff, John (*with* Fan, Meng[2]; Wang, Lesong; Dietz, William) Convection of concentrated vortices and passive scalars as solitary waves. (English summary) **2004j:76120**

Street, Robert L. *see* **Armfield, S. et al., (2004g:76003)**

Su, C.-H. *see* **Lucor, Didier et al., 2004i:76153**

Sun, Shuyu *see* **Dawson, Clint et al., 2004m:76120**

Sussman, Mark A second order coupled level set and volume-of-fluid method for computing growth and collapse of vapor bubbles. (English summary) **2004c:76109**

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— *see also* **Huang, Huaxiong, 2004f:76089**

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Tóth, Gábor Zsolt *see* **Keppens, R. et al., 2004i:76152**

Toumi, I. *see* **Kumbaro, A. et al., (2004k:65005)**

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— *see also* **Rannacher, Rolf et al., (2004d:00011)**

Vasilyev, Oleg V. Solving multi-dimensional evolution problems with localized structures using second generation wavelets. (English summary) **2004b:76119**

Vatsa, Veer N. *see* **Tsynkov, S. V., (2004k:76003)**

Vidal, Yolanda *see* **Huerta, Antonio et al.**

Villon, Pierre *see* **Huerta, Antonio et al.**

Vizman, Daniel *see* **Petcu, Dana et al.**

Wan, Decheng *see* **Turek, Stefan et al.**
Wang, Gang[2] *see* **Ashgriz, Nasser et al.**
Wang, Lesong *see* **Steinhoff, John et al.**, **2004j:76120**
Wang, Z. Jane *see* **Russell, David Baker**, **2004g:76100**
Webster, M. F. *see* **Baloch, A.**
Wei, Guo Wei *see* **Zhou, Yong Cheng et al.**, **2004c:76111**
Wenneker, I. (*with* Segal, August; Wesseling, P.) Conservation properties of a new unstructured staggered scheme. (English summary) **2004b:76120**
Wenston, Paul *see* **Lai, Ming-Jun**, **2004m:76123**
Wesenberg, Matthias *see* **Dedner, Andreas et al.**, (**2004j:00016**)
Wesseling, P. *see* **Wenneker, I. et al.**, **2004b:76120**
Wheeler, Mary F. Advanced techniques and algorithms for reservoir simulation. II. The multiblock approach in the integrated parallel accurate reservoir simulator (IPARS). (English summary) **2004b:76121**
— *see also* **Dawson, Clint et al.**, **2004m:76120**
Willcox, Karen Controllable and observable subspaces in computational fluid dynamics. (English summary) (*see* **2004g:76003**)
Wittum, Gabriel (*with* Schulz, Volker; Maar, Bernd; Logashenko, D.) Numerical methods for parameter estimation in Bingham-fluids. (English summary) (*see* **2004d:00011**)
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Akylas, T. R. *see* **Calvo, David C.**, **2004g:76020**
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Amano, Kaname *see* **Ogata, Hidenori et al.**, **2004g:76047**
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Aristov, Vladimir Vladimirovich ★ Direct methods for solving the Boltzmann equation and study of nonequilibrium flows. **2004a:76120**
Artebrant, Robert (*with* Schroll, Hans Joachim) High-resolution Riemann-solver-free methods for conservation laws. (English summary) (*see* **2004j:00016**)
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Banerjee, Sanjoy *see* **Badalassi, V. E. et al.**, **2004j:65149**
Baranger, C. Modelling of oscillations, breakup and collisions for droplets: the establishment of kernels for the T.A.B. model. (English summary) **2004m:76160**
Barron, Ronald M. *see* **Xu, Hao**[2] **et al.**, (**2004h:65005**)
(Barton, Noel G.) *see* **Coupling of fluids, structures and waves in aeronautics**, **2004j:76001**
Baumgart, Johannes *see* **Magin, Thierry et al.**, (**2004e:65004**)
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Bergamaschi, Luca (*with* Caliari, Marco; Vianello, Marco) Efficient approximation of the exponential operator for discrete 2D advection-diffusion problems. (English summary) **2004b:65136**
Biswas, Rupak *see* **Djomehri, M. Jahed**
Böhmer, Klaus (*with* Dahlke, Stephan) Stability and convergence for discretization methods with applications to wavelet Galerkin schemes. (English summary) **2004e:65134**
Boozer, Allen H. *see* **Nührenberg, Carolin**, **2004d:76117**
Borouchaki, Houman *see* **Alauzet, F. et al.**, **2004k:65163**
Bossavit, Alain Extrusion, contraction: their discretization via Whitney forms. (English summary) **2004i:76193**
Botha, J. F. *see* **Cloot, A.**
Boudin, Laurent (*with* Desvillettes, Laurent; Motte, Renaud) A modeling of compressible droplets in a fluid. (English summary) **2004k:76121**
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Brenner, Gunther *see* **Sabanca, Murat et al.**, (**2004e:65004**)
Breuer, Michael *see* **Stojković, Dragan et al.**, **2004g:76050** *and* **Shi, Jun Mei et al.**
Bridges, Thomas J. *see* **Allen, Leanne**, **2004g:76065**
Brighi, B. *see* **Belhachmi, Zakaria et al.**, **2004c:76138**
Briscolini, Marco *see* **Carnevale, George F. et al.**, **2004h:76042**
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Bürger, Raimund (*with* Karlsen, Kenneth Hvistendahl; Klingenberg, Christian; Risebro, Nils Henrik) A front tracking approach to a model of continuous sedimentation in ideal clarifier-thickener units. (English summary) **2004i:35213**
Caboussat, Alexandre (*with* Maronnier, Vincent; Picasso, Marco; Rappaz, Jacques) Numerical simulation of three dimensional free surface flows with bubbles. (English summary)
Cai, Xiao-Chuan (*with* Keyes, David E.; Young, David P.) A nonlinear additive Schwarz preconditioned inexact Newton method for shocked duct flows. (*see* **2004e:65003**)
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Caliari, Marco *see* **Bergamaschi, Luca et al.**, **2004b:65136**
Calvo, David C. (*with* Akylas, T. R.) On interfacial gravity-capillary solitary waves of the Benjamin type and their stability. (English summary) **2004g:76020**
Cant, R. S. (*with* Dawes, W. N.; Savill, A. M.) Advanced CFD and modeling of accidental explosions. (English summary) (*see* **2004m:76002**)
Carabineanu, Adrian Numerical and qualitative study of the problem of incompressible jets with curvilinear walls. (English summary) **2004i:76014**
Caraeni, D. (*with* Conway, S.; Fuchs, László[2]) About a parallel multidimensional upwind solver for LES. (English summary) (*see* **2004k:65005**)
Carnevale, George F. (*with* Briscolini, Marco; Orlandi, Paolo; Kloosterziel, Rudolf C.) Internal-wave-packet propagation and breaking. (English summary) **2004h:76042**
Carr, Magda (*with* de Putter, Sander) Penetrative convection in a horizontally isotropic porous layer. (English summary) **2004a:76122**
Castelo Filho, Antonio *see* **Sabatini, M. H. et al.**
Ceniceros, Hector D. *see* **Badalassi, V. E. et al.**, **2004j:65149**
Chacón, J. M. *see* **Herrero, Henar et al.**, **2004b:65197**
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Charakhch'yan, A. A. *see* **Gryn', V. I. et al.**

Chauvière, Cédric *see* **Lozinskiĭ, A. S.**
Chen, Yitung *see* **Li, Jichun**, (2004h:65005)
Chen, Zhangxin *see* **Li, Baoyan et al.**, 2004j:76151; 2004j:76152; **Liu, Jiang-Guo et al.**, (2004h:65005) *and* **Wang, Ruihe**, (2004h:65005)
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Chilton, Lawrence K. (*with* Seshaiyer, Padmanabhan) The *hp* mortar domain decomposition method for problems in fluid mechanics. (English summary) **2004a:76085**
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Cohen, R. H. *see* **Shestakov, Aleksei I. et al.**, 2004d:76059a *and* 2004d:76059b
Colonius, Tim *see* **Rowley, Clarence W. et al.**, 2004k:76099
Comincioli, V. (*with* Naldi, Giovanni; Scapolla, T.; Toscani, Giuseppe) Multiscale hyperbolic equations: numerical approximation in the diffusive regime. (English summary) (*see* **2004h:65007**)
Conway, S. *see* **Caraeni, D. et al.**, (2004k:65005)
Coquel, Frédéric *see* **Chalons, Christophe**[1], (2004j:00016)
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Croisille, Jean-Pierre (*with* Greff, Isabelle) A box scheme for convection-diffusion equations. (English summary) (*see* **2004e:65004**)
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Cuminato, J. A. *see* **Sabatini, M. H. et al.**
Dahlke, Stephan *see* **Böhmer, Klaus**, 2004e:65134
D'Alessio, S. J. D. *see* **Kocabiyik, Serpil**
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Daube, Olivier *see* **Le Quéré, Patrick et al.**, 2004m:76081
Davies, Christopher *see* **Bowles, Robert I. et al.**, 2004e:76043
Dawes, W. N. *see* **Cant, R. S. et al.**, (2004m:76002)
Degrez, Gérard *see* **Magin, Thierry et al.**, (2004e:65004)
Dellacherie, Stéphane Relaxation schemes for the multicomponent Euler system. (English summary) **2004j:76128**
Dendy, R. O. *see* **Vann, R. G. L. et al.**, 2004a:76150
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Durst, Franz *see* **Stojković, Dragan et al.**, 2004g:76050; **Sabanca, Murat et al.**, (2004e:65004) *and* **Shi, Jun Mei et al.**
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Elbehady, E. E. *see* **Ismail, I. A.**, 2004f:76032
El Kacimi, Abdellah *see* **El Alaoui Talibi, M.**, 2004j:76046
Engquist, Björn *see* **E, Weinan**, 2004b:35019
Enright, Doug (*with* Fedkiw, Ronald P.) Robust treatment of interfaces for fluid flows and computer graphics. (*see* **2004j:00016**)
Espedal, M. S. *see* **Garrido, Izaskun et al.**
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Farhat, Charbel *see* **Turkel, Eli et al.**
Farrow, Duncan E. (*with* Stevens, Craig L.) Numerical modelling of a surface-stress driven density-stratified fluid. (English summary) **2004g:76031**
Fedele, Francesco (*with* McKay, Melissa; Pinder, George F.; Guarnaccia, Joseph F.) Single-degree of freedom Hermite collocation for multiphase flow and transport in porous media. (English summary)
Fedkiw, Ronald P. *see* **Enright, Doug**, (2004j:00016)
Fernández, Miguel Ángel *see* **Deparis, Simone et al.**, 2004i:74035
Ferreira, José Augusto Mendes *see* **Araújo, A. L. et al.**
Ferreira, V. G. *see* **Sabatini, M. H. et al.**
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Fiétier, N. Detecting instabilities in flows of viscoelastic fluids. (English summary)
Fladmark, G. E. *see* **Garrido, Izaskun et al.**
Flaherty, Joseph E. *see* **Remacle, Jean-François et al.**, 2004k:65176
Formaggia, Luca *see* **Deparis, Simone et al.**, 2004i:74035 *and* **Sherwin, Spencer J. et al.**, 2004j:92022
Fořt, Jaroslav (*with* Kozel, Karel) Numerical solution of several models of internal transonic flow. (English summary) **2004k:76076**
Fouque, Jean-Pierre *see* **Haider, Mansoor A. et al.**, 2004m:76137
Frank, Jason (*with* Gottwald, Georg A.; Reich, Sebastian) A Hamiltonian particle-mesh method for the rotating shallow-water equations. (English summary) (*see* **2004d:65005**)
Franke, Victoria E. *see* **Sherwin, Spencer J. et al.**, 2004j:92022
Frey, Pascal Jean *see* **Alauzet, F. et al.**, 2004k:65163
Frías, Diego *see* **Douglas, Jim, Jr. et al.**, (2004h:00025)
Frolova, A. A. *see* **Gryn′, V. I. et al.**
Fu, Shang Wu *see* **Mo, Ze Yao**, 2004g:65038
Fuchs, László[2] *see* **Caraeni, D. et al.**, (2004k:65005)
Fuhrmann, Jürgen (*with* Petzoldt, Martin) Robust error estimators for interface problems occuring in transport processes in porous media. (*see* **2004d:00011**)
Gadoin, Emilie *see* **Le Quéré, Patrick et al.**, 2004m:76081
Gallouët, Thierry *see* **Eymard, Robert et al.**, (2004e:65004)
Gander, Martin J. (*with* Halpern, Laurence; Japhet, Caroline) Optimized Schwarz algorithms for coupling convection and convection-diffusion problems. (*see* **2004e:65003**)
Gandlin, Rima *see* **Brandt, Achi**, (2004j:00016)
Garrido, Izaskun (*with* Fladmark, G. E.; Espedal, M. S.) An improved numerical simulator for multiphase flow in porous media. (English summary)
Geng, Aifang *see* **Shi, Wei Ping et al.**, 2004h:76031
George, Paul-Louis *see* **Alauzet, F. et al.**, 2004k:65163
Gerardo-Giorda, Luca (*with* Le Tallec, Patrick; Nataf, Frédéric) A Robin-Robin preconditioner for advection-diffusion equations with discontinuous coefficients. (English summary) **2004k:65203**
Gerbeau, Jean-Frédéric (*with* Vidrascu, Marina) A quasi-Newton algorithm based on a reduced model for fluid-structure interaction problems in blood flows. (English summary) **2004i:74038**
Gerbeth, Gunter *see* **Xu, Ming Tian et al.**, 2004m:76176
Gervais, Véronique *see* **Eymard, Robert et al.**, (2004e:65004)
Girault, Vivette (*with* Scott, Larkin Ridgway) Stability of dispersive model equations for fluid flow.
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Glimm, James (*with* Li, Xiao Lin; Lin, An-Der) Nonuniform approach to terminal velocity for single mode Rayleigh-Taylor instability. (English summary) **2004g:76069**
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— *see also* **Abarzhi, Snezhana I. et al.**, 2004e:76061
Glowinski, Roland *see* **Dashevski, D. et al.**, (2004e:65003)
Gottwald, Georg A. *see* **Frank, Jason et al.**, (2004d:65005)
Graham, Ivan G. *see* **Vainikko, Eero**
Granjeon, Didier *see* **Eymard, Robert et al.**, (2004e:65004)
Greengard, Leslie (*with* Kropinski, Mary Catherine A.) Integral equation methods for Stokes flow in doubly-periodic domains. (English summary) **2004j:76042**
Greff, Isabelle *see* **Croisille, Jean-Pierre**, (2004e:65004)
Gryn′, V. I. (*with* Frolova, A. A.; Charakhch′yan, A. A.) A barrier-type grid generator and its application for computing flows with moving boundaries. (Russian. Russian summary)
Guarnaccia, Joseph F. *see* **Fedele, Francesco et al.**
Guermond, Jean Luc (*with* Shen, Jie[1]) Velocity-correction projection methods for incompressible flows. (English summary) **2004c:65103**
Gustafsson, Bertil (*with* Hemmingsson-Frändén, Lina) High order methods and domain decomposition. (*see* **2004k:76003**)
Hagen, Hans *see* **Weber, Gunther H. et al.**
Haider, Mansoor A. (*with* Mehta, Kurang J.; Fouque, Jean-Pierre) Time-reversal simulations for detection in randomly layered media. (English summary) **2004m:76137**
Halpern, Laurence *see* **Gander, Martin J. et al.**, (2004e:65003)
Hamann, Bernd *see* **Weber, Gunther H. et al.**

Han, Hou-de (*with* Zheng, Chunxiong) Exact nonreflecting boundary conditions for an acoustic problem in three dimensions. (English summary) **2004b:76133**
Hänel, Dieter *see* **Völker, F. et al.**, (**2004j:00016**)
Hannoun, Noureddine *see* **Alexiades, Vasilios et al.**, **2004e:65107**
Hatzikonstantinou, P. M. *see* **Tzirtzilakis, E. E. et al.**
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Hegarty, Alan F. *see* **Ansari, Ali R. et al.**, **2004e:76045**
Hemmingsson-Frändén, Lina *see* **Gustafsson, Bertil**, (**2004k:76003**)
Henshaw, William D. (*with* Kreiss, Heinz-Otto; Ystrom, Jacob) Numerical experiments on the interaction between the large- and small-scale motions of the Navier-Stokes equations. (English summary) **2004a:76037**
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Hetmaniuk, Ulrich *see* **Turkel, Eli et al.**
Heywood, John G. *see* **Bause, Markus et al.**, **2004g:65078**
Hochard, Ch. A Trefftz approach to computational mechanics. (English summary) **2004b:74087**
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Huan, Guanren *see* **Li, Baoyan et al.**, **2004j:76151**; **2004j:76152** *and* **Liu, Jiang-Guo et al.**, (**2004h:65005**)
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Ivanenko, Sergeĭ Aleksandrovich *see* **Azarenok, Boris N. et al.**, **2004d:65108**
Japhet, Caroline (*with* Nataf, Frédéric) The best interface conditions for domain decomposition methods: absorbing boundary conditions. (English summary) (*see* **2004k:76003**)
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Jin, Guodong *see* **Zhang, Qiang[3] et al.**
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Keyes, David E. *see* **Cai, Xiao-Chuan et al.**, **2004a:65059**; (**2004e:65003**) *and* **Knoll, D. A.**, **2004j:65066**
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Klingenberg, Christian *see* **Bürger, Raimund et al.**, **2004i:35213**
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Knoll, D. A. (*with* Keyes, David E.) Jacobian-free Newton-Krylov methods: a survey of approaches and applications. (English summary) **2004j:65066**
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Kozel, Karel *see* **Fořt, Jaroslav**, **2004k:76076**
Kreiss, Gunilla *see* **Appelö, Daniel**, (**2004j:00016**)
Kreiss, Heinz-Otto *see* **Henshaw, William D. et al.**, **2004a:76037**
Kreylos, Oliver *see* **Weber, Gunther H. et al.**
Kropinski, Mary Catherine A. *see* **Greengard, Leslie**, **2004j:76042**
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— *see also* **Tiwari, Sudarshan**, (**2004d:65005**)
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Kuznetsov, Yuriĭ Alekseevich[1] *see* **Dashevski, D. et al.**, (**2004e:65003**)
Laforest, Marc *see* **Glimm, James et al.**, **2004k:76122**
Lai, Choi-Hong *see* **Djambazov, G. S. et al.**, (**2004e:65003**)
Lai, Ming-Jun (*with* Liu, Chun; Wenston, Paul) Bivariate spline method for numerical solution of time evolution Navier-Stokes equations over polygons in stream function formulation. (English summary) **2004i:65096**
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Lanteri, D. *see* **Dolean, Victorita et al.**, (**2004e:65003**)
Lanteri, Stéphane *see* **Dolean, Victorita et al.**, **2004m:65144**
Latché, Jean-Claude *see* **Coré, Xavier et al.**, (**2004e:65004**)
Laurent, Frédérique (*with* Massot, Marc; Villedieu, Philippe) Eulerian multi-fluid modeling for the numerical simulation of coalescence in polydisperse dense liquid sprays. (English summary) **2004k:76124**
Lax, Peter D. *see* **Liu, Xu-Dong**, **2004e:65097**
Layton, Anita T. (*with* Spotz, William F.) A semi-Lagrangian double Fourier method for the shallow water equations on the sphere. (English summary) **2004d:86010**
Le Brizaut, Jean-Sébastien (*with* Pogu, Marc) A mixed non-linear boundary value problem appearing in gas dynamics: generalized solutions and numerical results. (English summary) **2004c:76125**
Lee, Hyung-Chun *see* **Kim, Sang Dong et al.**, **2004j:65197**
van Leer, Bram *see* **Nishikawa, Hiroaki**, **2004m:65147**
de Lemos, Marcelo J. S. *see* **Mesquita, Maximilian S.**
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Leschziner, M. A. Statistical turbulence modelling for the computation of physically complex flows. (English summary) **2004g:76085**
Leservoisier, David *see* **Dervieux, Alain et al.**, (**2004d:76003**)
Le Tallec, Patrick *see* **Gerardo-Giorda, Luca et al.**, **2004k:65203**
Li, Baoyan (*with* Chen, Zhangxin; Huan, Guanren) Modeling horizontal wells with the CVFA method in black oil reservoir simulations. (English summary) **2004j:76151**
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Li, Jichun (*with* Chen, Yitung) Radial basis function based meshless method for groundwater modeling. (English summary) (*see* **2004h:65005**)
Li, Kai Tai *see* **He, Yin Nian**, **2004a:65129** *and* **Hou, Yan Ren**, **2004i:65089**
Li, Xiao Lin *see* **Glimm, James et al.**, **2004g:76069**
Li, Zhilin An overview of the immersed interface method and its applications. (English summary) **2004c:65120**
— *see also* **Ito, Kazufumi**
Liang, Dong *see* **Wang, Hong[9] et al.**, **2004b:76144**
Ligocki, Terry J. *see* **Weber, Gunther H. et al.**
Lin, An-Der *see* **Abarzhi, Snezhana I. et al.**, **2004e:76061** *and* **Glimm, James et al.**, **2004g:76069**
Lin, R. K. *see* **Sheu, Tony W. H.**, **2004j:76038**
Lin, Wei[1] *see* **Zhu, Liangshun**, (**2004m:00011**)
Lipnikov, Konstantin *see* **Dashevski, D. et al.**, (**2004e:65003**)
Liu, Chun *see* **Lai, Ming-Jun et al.**, **2004i:65096**
Liu, Da You[1] *see* **Zhang, Qiang[3] et al.**
Liu, Jian-Guo[1] *see* **E, Weinan**, **2004c:76039**
Liu, Jiang-Guo (*with* Chen, Zhangxin; Ewing, Richard E.; Huan, Guanren; Li, Baoyan; Wang, Zhongxiao) Parallel computing in the black oil model. (English summary) (*see* **2004h:65005**)
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Liu, Wing Kam *see* **Wang, Xiaodong**
Liu, Xu-Dong (*with* Lax, Peter D.) Positive schemes for solving multi-dimensional hyperbolic systems of conservation laws. II. (English summary) **2004e:65097**
Llorente, Ignacio M. *see* **Prieto-Matías, Manuel et al.**
LoDestro, L. L. *see* **Shestakov, Aleksei I. et al.**, **2004d:76059a** *and* **2004d:76059b**
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Lu, Ya Yan (*with* Zhu, Jianxin) A local orthogonal transform for acoustic waveguides with an interval interface. (English summary) **2004m:76138**
Lube, Gert *see* **Knopp, T. et al.**, (**2004e:65003**)
Lyons, Stephen L. *see* **Wang, Hong[9] et al.**, **2004b:76144**
Ma, Yanbao (*with* Zhong, Xiaolin) Receptivity of a supersonic boundary layer over a flat plate. II. Receptivity to free-stream sound. (English summary) **2004j:76131**
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Magin, Thierry (*with* Vanden Abeele, David; Degrez, Gérard; Baumgart, Johannes) Parallel implicit multiblock computations of inductive plasma flows. (English summary) (*see* **2004e:65004**)
Mahalingam, Shankar *see* **Pakdee, Watit**, **2004i:80021**
Mahmood, Mohammed Shuker *see* **Kačur, Jozef**, **2004h:65092**
Mai, Tsun Zee *see* **Alexiades, Vasilios et al.**, **2004e:65107**
Mammoli, Andrea A. Preconditioned iterative solution of the corrected mobility problem. (English summary) (*see* **2004k:65004**)
Mancho, Ana M. *see* **Herrero, Henar et al.**, **2004b:65197**
Maneschy, C. E. *see* **Massoudi, Mehrdad**, **2004j:76002**
Mangiavacchi, N. *see* **Sabatini, M. H. et al.**
Manickam, S. A. V. (*with* Radha, Ch.; Sharma, V. D.) Far field behaviour of waves in a vibrationally relaxing gas. (English summary) **2004b:76128**
Marcinkowski, Leszek *see* **Cai, Xiao-Chuan et al.**, **2004a:65059**
Margolin, Len G. (*with* Shashkov, M. Yu.) Second-order sign-preserving conservative interpolation (remapping) on general grids. (English summary) **2004c:65164**
Maronnier, Vincent *see* **Caboussat, Alexandre et al.**
Marsden, Jerrold E. *see* **Mohseni, Kamran et al.**, **2004a:76068**

Masson, Roland *see* **Eymard, Robert et al.**, (2004e:65004)
Massot, Marc *see* **Laurent, Frédérique et al.**, 2004k:76124
Massoudi, Mehrdad (*with* Maneschy, C. E.) Numerical solution to the flow of a second grade fluid over a stretching sheet using the method of quasi-linearization. (English summary) **2004j:76002**
Maxey, Martin R. *see* **Dance, S. L.**, 2004d:76107
McKay, Melissa *see* **Fedele, Francesco et al.**
McLaren, D. I. *see* **Quispel, G. Reinout W.**, 2004c:37204
Mehta, Kurang J. *see* **Haider, Mansoor A. et al.**, 2004m:76137
Meijer, Han E. H. *see* **Bazhlekov, Ivan B. et al.**, (2004h:00025)
Mesquita, Maximilian S. (*with* de Lemos, Marcelo J. S.) Optimal multigrid solutions of two-dimensional convection-condition problems. (English summary)
Meynen, Sebastian *see* **Schäfer, Michael et al.**, (2004h:00025)
Mezine, Mohamed *see* **Abgrall, Rémi**, 2004m:65168
Mikhalin, V. A. *see* **Krylov, A. A. et al.**, 2004k:76104
Minion, Michael L. Semi-implicit projection methods for incompressible flow based on spectral deferred corrections. (English summary)
Mo, Ze Yao (*with* Fu, Shang Wu) Application of Krylov iterative methods to a two-dimensional three-temperature energy equation. (Chinese. English summary) **2004g:65038**
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Morrison, P. J. *see* **Bowman, John C. et al.**, (2004h:00025)
Morzynski, Marek *see* **Noack, Bernd R. et al.**, 2004j:76049
Motte, Renaud *see* **Boudin, Laurent et al.**, 2004k:76121
Müller, Hannes *see* **Knopp, T. et al.**, (2004e:65003)
Müller, Siegfried ★ Adaptive multiscale schemes for conservation laws. **2004b:76102**
Murray, Richard M. *see* **Rowley, Clarence W. et al.**, 2004k:76099
Nägele, Sandra (*with* Wittum, Gabriel) Large-eddy simulation and multigrid methods. (English summary) **2004g:65128**
Nakaki, Tatsuyuki The analysis to some point vortex problems using computers. (English summary) **2004b:76036**
Naldi, Giovanni *see* **Comincioli, V. et al.**, (2004h:65007)
Napolitano, Michele *see* **De Palma, P. et al.**, (2004d:76003)
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Nemec, M. *see* **Zingg, D. W. et al.**, (2004g:76003)
Neyama, Atsushi *see* **Nasif, Hesham et al.**, (2004h:00019)
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Okano, Dai *see* **Ogata, Hidenori et al.**, 2004g:76047
de Oliveira, Paula *see* **Araújo, A. L. et al.**
Oñate, Eugenio Multiscale computational analysis in mechanics using finite calculus: an introduction. (English summary) **2004h:74067**
Orlandi, Paolo *see* **Carnevale, George F. et al.**, 2004h:76042
Oujja, Rachid *see* **Alvarez, Sixto J.**, 2004i:76068
Padden, W. E. P. *see* **Macaskill, C. et al.**, 2004c:76030
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Pakdee, Watit (*with* Mahalingam, Shankar) An accurate method to implement boundary conditions for reacting flows based on characteristic wave analysis. (English summary) **2004i:80021**
Palmerio, B. *see* **Dervieux, Alain et al.**, (2004d:76003)
Pareschi, Lorenzo *see* **Jin, Shi et al.**, 2004i:76165
Pascazio, G. *see* **De Palma, P. et al.**, (2004d:76003)
Patrício, F. *see* **Araújo, A. L. et al.**
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Peiró, J. *see* **Sherwin, Spencer J. et al.**, 2004j:92022
Pellegrino, Giulio *see* **Azzalini, Alexandre et al.**, 2004f:76078
Pelz, Richard B. Extended series analysis of full octahedral flow: numerical evidence for hydrodynamic blowup. (English summary) **2004g:76016**
Pereira, Felipe *see* **Almeida, César et al.**, 2004g:76111 *and* **Douglas, Jim, Jr. et al.**, (2004h:00025)
(Périaux, Jacques F.) *see* **Coupling of fluids, structures and waves in aeronautics**, 2004j:76001
Pericleous, Koulis *see* **Djambazov, G. S. et al.**, (2004e:65003)
Peskin, Charles S. The immersed boundary method. (English summary) **2004h:74029**
— *see also* **Zhu, Luoding**, 2004d:76008
Pettersson Reif, B. A. *see* **Durbin, P. A.**, 2004j:76096
Petzoldt, Martin *see* **Fuhrmann, Jürgen**, (2004d:00011)
Picasso, Marco *see* **Caboussat, Alexandre et al.**
Piggott, M. D. *see* **Budd, C. J.**, 2004j:65077
Pinder, George F. *see* **Fedele, Francesco et al.**
Podvigina, Olga M. *see* **Kuznetsov, Evgeniĭ Aleksandrovich[1] et al.**, (2004d:76005)
Pogu, Marc *see* **Le Brizaut, Jean-Sébastien**, 2004c:76125
Poinsot, T. *see* **Nicoud, F.**, 2004m:76134
Portugués, R. F. *see* **Herrero, Henar et al.**, 2004b:65197
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Prudhomme, Serge *see* **Oden, J. Tinsley**, 2004b:65079
de Putter, Sander *see* **Carr, Magda**, 2004a:76122
Qian, Tiezheng (*with* Wang, Xiao Ping[1]; Sheng, Ping) Generalized Navier boundary condition for the moving contact line. (English summary) **2004d:76041**
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Rappaz, Jacques *see* **Caboussat, Alexandre et al.**
Ravindran, S. S. Numerical approximation of optimal control of unsteady flows using SQP and time decomposition. (English summary) **2004m:49092**
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Rivera-Gallego, Wilson (*with* Zhu, Jian Ping[2]; Huddleston, D.) An efficient parallel algorithm with application to computational fluid dynamics. (English summary)
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Rosa, P. *see* **Araújo, A. L. et al.**
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Růžička, Michael *see* **Diening, Lars et al.**, 2004f:76003
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Saurel, Richard *see* **Andrianov, Nikolai et al.**, (2004j:00016)
Savel'ev, A. D. *see* **Krylov, A. A. et al.**, 2004k:76104
Savill, A. M. *see* **Cant, R. S. et al.**, (2004m:76002)
Scapolla, T. *see* **Comincioli, V. et al.**, (2004h:65007)
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Scheid, Jean-Francois *see* **San Martín H., Jorge et al.**
Schoen, Peter *see* **Stojković, Dragan et al.**, 2004g:76050
Schroll, Hans Joachim *see* **Artebrant, Robert**, (2004j:00016)
Scott, Larkin Ridgway *see* **Girault, Vivette**
Seaïd, Mohammed Semi-Lagrangian integration schemes for viscous incompressible flows. (English summary) **2004a:65123**
Seshaiyer, Padmanabhan *see* **Chilton, Lawrence K.**, 2004a:76085
Sethian, James A. Computational methods for advancing interfaces. (English summary) **2004k:65186**
Shadwick, B. A. *see* **Bowman, John C. et al.**, (2004h:00025)
Shalf, John M. *see* **Weber, Gunther H. et al.**
Sharma, V. D. *see* **Manickam, S. A. V. et al.**, 2004b:76128
Shashkov, M. Yu. *see* **Margolin, Len G.**, 2004c:65164
Shen, Jie[1] *see* **Guermond, Jean Luc**, 2004c:65103
Sheng, Ping *see* **Qian, Tiezheng et al.**, 2004d:76041
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76M27 Visualization algorithms

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76M28 Particle methods and lattice-gas methods

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Buick, J. M. *see* **Cosgrove, J. A. et al., 2004b:76122**
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Steiner, Konrad *see* **Ginzburg, Irina**
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76M30 Variational methods

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76M35 Stochastic analysis

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Chibbaro, Sergio *see* **Minier, Jean-Pierre et al., 2004h:65013**
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Moreira, Jussara M. *see* **Braga, Gastão A. et al., 2004j:35143**
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76M50 Homogenization

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76M55 Dimensional analysis and similarity

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76M60 Symmetry analysis, Lie group and algebra methods

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Matsuyama, Tokio *see* **Ikehata, Ryo et al., 2004c:76119**
Moroşanu, Gheorghe *see* **Coclici, Cristian A. et al., 2004k:76096**
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Matsumura, Akitaka *see* **Huang, Feimin et al.**, 2004j:35304
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Thomases, Becca *see* **Sideris, Thomas C. et al.**, 2004d:35208
Trebeschi, Paola On the slightly compressible MHD system in the half-plane. (English summary) **2004j:35180**
Trivisa, Konstantina *see* **Chen, Gui-Qiang et al.**, 2004i:76191
Varlamov, Vladimir V. Time estimates for the Cauchy problem for a third-order hyperbolic equation. (English summary) **2004c:35249**
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— Global solutions of the Navier-Stokes equations for viscous compressible flows. (English summary) **2004i:35252**
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Wang, Ya Guang *see* **Chen, Shuxing**, 2004b:35267
Warnecke, Gerald G. *see* **Li, Jiequan**, 2004d:35164 *and* 2004e:35148
Watson, Stephen J. *see* **Lewicka, Marta**, 2004e:35184
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Yao, Zheng-an *see* **Deng, Yin Bin et al.**, 2004h:35187
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Zadrzyńska, Ewa (*with* Zajączkowski, Wojciech M.) On nonstationary motion of a fixed mass of a general fluid bounded by a free surface. (English summary) **2004h:35189**
Zajączkowski, Wojciech M. *see* **Rohde, Christian**, 2004f:35147 *and* **Zadrzyńska, Ewa**, 2004h:35189
Zhang, Ping[4] *see* **Jiang, Song**, 2004i:35248
Zhang, Yongqian Steady supersonic flow past an almost straight wedge with large vertex angle. (English summary) **2004c:76088**
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Zhu, Chang-jiang *see* **Yang, Tong**, 2004c:35264 *and* **Vong, Seak-Weng et al.**, 2004d:35210
Ziane, Mohammed *see* **Hoff, David**, 2004f:35136
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Items listed otherwise than by author

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Mathematical fluid dynamics ★ Handbook of mathematical fluid dynamics. Vol. II. **2004a:76002**

76N15 Gas dynamics, general

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Barbera, Elvira (*with* Giambò, Sebastiano; Valenti, Giovanna) Weakly nonlinear interaction of two waves in radiative gasdynamics. (English summary) **2004i:76159**
Bayanov, I. M. (*with* Gil′mullin, M. Z.; Shagapov, V. Sh.) Calculation of the spreading of a heavy gas over the Earth's surface in a three-dimensional model. (Russian. Russian summary) **2004i:76160**
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Chetverushkin, Boris Nikolaevich *see* **Dorodnitsyn, L. V.**, 2004f:76093 *and* **Kovalev, Vladimir F.**
Chupakhin, A. P. Invariant submodels of a special vortex. (Russian. Russian summary) **2004e:76094**
— *see also* **Cherevko, A. A.**, 2004m:76133
Dellacherie, Stéphane Relaxation schemes for the multicomponent Euler system. (English summary) **2004j:76128**
Dinu, Liviu Florin (*with* Dinu, Marina) Some asymptotic remarks concerning the linearized version of an interaction problem with shocks. (English summary)
Dinu, Marina *see* **Dinu, Liviu Florin**
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Dubroca, Bruno *see* **Ripoll, J. F. et al.**, 2004a:76118
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Gaite, José (*with* Zorzano, Mari-Paz) Nonlinear spherical gravitational downfall of gas onto a solid ball: analytic and numerical results. (English summary) **2004h:76129**
Giambò, Sebastiano *see* **Barbera, Elvira et al.**, 2004i:76159
Gil′mullin, M. Z. *see* **Bayanov, I. M. et al.**, 2004i:76160
Golovin, S. V. Unsteady motion of a gas in a strip. (Russian. Russian summary) **2004k:76101**
Hornung, H. G. *see* **Kumar, Sanjay**[2] **et al.**
Inoue, Yoshinori (*with* Kubo, Noriko; Mutou, Daisuke) Nonlinear wave propagation in a gas with algebraic density distribution. (English summary) **2004j:76129**
Kawala, A. M. *see* **Zedan, Hassan A.**, 2004d:76088
Khabirov, S. V. Continuous restricted radial motion of a gas under the action of a piston. (Russian. Russian summary) **2004k:76102**
Khe, A. K. Hyperbolicity of equations of the steady shear flows of a gas in a thin layer. (Russian. Russian summary) **2004k:76103**
Kovalev, Vladimir F. (*with* Chetverushkin, Boris Nikolaevich) On the invariance of a quasi-gas-dynamic system of equations. (Russian)
Kraĭko, A. N. Limit properties of piecewise-potential subcritical and critical jet flows of an ideal gas. (Russian. Russian summary) **2004c:76124**
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Kubo, Noriko *see* **Inoue, Yoshinori et al.**, 2004j:76129
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Le Brizaut, Jean-Sébastien (*with* Pogu, Marc) A mixed non-linear boundary value problem appearing in gas dynamics: generalized solutions and numerical results. (English summary) **2004c:76125**
LeFloch, Philippe G. (*with* Mai Duc Thanh) Properties of Rankine-Hugoniot curves for van der Waals fluids. (English summary) **2004f:76094**
Li, Jiequan *see* **Chen, Shaozhong et al.**, 2004k:76100
Lorin, Emmanuel (*with* Seignole, V.) Convection systems with stiff source terms. (English summary) **2004f:76095**
Madhumita, G. *see* **Sharma, V. D. et al.**, 2004h:76131
Maekawa, Hiroshi *see* **Watanabe, Daisuke**
Mai Duc Thanh *see* **LeFloch, Philippe G.**, 2004f:76094
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Matsumura, Akitaka Inflow and outflow problems in the half space for a one-dimensional isentropic model system of compressible viscous gas. (English summary) **2004d:76087**
— Inflow and outflow problems in the half space for a one-dimensional isentropic model system of compressible viscous gas. (English summary) **2004c:76126**
Mikhalin, V. A. *see* **Krylov, A. A. et al.**, 2004k:76104

Mutou, Daisuke *see* **Inoue, Yoshinori et al., 2004j:76129**
Nicoud, F. (*with* Poinsot, T.) Boundary conditions for compressible unsteady flows. (English summary) **2004m:76134**
Omel'chenko, Aleksandr Vladimirovich (*with* Tropp, È. A.) On a singularly perturbed problem of vortical gas dynamics. (Russian. Russian summary) **2004k:76105**
Ovsyannikov, L. V. Symmetry of barochronic gas motions. (Russian. Russian summary) **2004f:76096**
Pogu, Marc *see* **Le Brizaut, Jean-Sébastien, 2004c:76125**
Poinsot, T. *see* **Nicoud, F., 2004m:76134**
Radha, Ch. *see* **Manickam, S. A. V. et al., 2004b:76128**
Ripoll, J. F. (*with* Dubroca, Bruno; Audit, E.) A factored operator method for solving coupled radiation-hydrodynamics models. (English summary) **2004a:76118**
Rylov, A. I. Geometric properties of some level lines in plane and axisymmetric gas flows. (Russian. Russian summary) **2004h:76130**
Savel'ev, A. D. *see* **Krylov, A. A. et al., 2004k:76104**
Segeth, Karel *see* **Šolín, Pavel, 2004e:76095**
Seignole, V. *see* **Lorin, Emmanuel, 2004f:76095**
Serre, Denis L^1-stability of constants in a model for radiating gases. (English summary) **2004c:76127**
Shagapov, V. Sh. *see* **Bayanov, I. M. et al., 2004i:76160**
Sharma, V. D. (*with* Madhumita, G.; Manickam, S. A. V.) Dissipative waves in a relaxing gas exhibiting mixed nonlinearity. (English summary) **2004h:76131**
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Shi, Jing *see* **Wu, Zi-Niu, (2004g:76003)**
Šolín, Pavel (*with* Segeth, Karel) Examples of non-uniqueness of almost-unidirectional gas flow. (English summary) **2004e:76095**
Sturtevant, B. *see* **Kumar, Sanjay[2] et al.**
Tropp, È. A. *see* **Omel'chenko, Aleksandr Vladimirovich, 2004k:76105**
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Yakunina, G. E. The dynamics of pyramidal bodies in the framework of the local interaction model. (Russian. Russian summary) **2004c:76128**
Yücel, Uğur Calculation of leakage and dynamic coefficients of stepped labyrinth gas seals. (English summary)
Zedan, Hassan A. (*with* Kawala, A. M.) Classes of solution for a system of one-dimensional motion of a gas. (English summary) **2004d:76088**
Zhang, Tong[1] *see* **Chen, Shaozhong et al., 2004k:76100**
Zorzano, Mari-Paz *see* **Gaite, José, 2004h:76129**

Items with secondary classifications in 76N15

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Agarwal, Ramesh K. *see* **Reksoprodjo, H. S. R.**
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Bagewadi, C. S. *see* **Mallikarjunaswami, B. P., 2004m:76174**
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Chernyshov, M. V. *see* **Uskov, V. N., 2004d:76066**
Chetverushkin, Boris Nikolaevich Kinetic schemes and high-speed multiprocessor computations in gas dynamics. (Russian. English summary) **2004b:76104**
Chinilov, A. Yu. *see* **Gusev, V. N., 2004i:76139**
Chupakhin, A. P. Selfadjointness of solutions via a shock wave: limit shock. (Russian. Russian summary) **2004f:76080**
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Degrez, Gérard *see* **Deconinck, Herman, (2004k:65005)**
Dermoune, Azzouz Propagation and conditional propagation of chaos for pressureless gas equations. (English summary) **2004e:60106**
Dolejší, Vít (*with* Feistauer, Miloslav; Schwab, Christoph) On discontinuous Galerkin methods for nonlinear convection-diffusion problems and compressible flow. (English summary) **2004f:65147**
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Fazio, Riccardo (*with* LeVeque, Randall J.) Moving-mesh methods for one-dimensional hyperbolic problems using CLAWPACK. (English summary) **2004e:76082**
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Gharib, Morteza *see* **Krueger, Paul S., 2004h:76114**
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Golovin, S. V. Group stratification and exact solutions of the equation of the transonic motion of a gas. (Russian. Russian summary) **2004a:76111**
Goodrich, John *see* **Hagstrom, Thomas et al., (2004k:76003)**
Gulak, Yuriy *see* **Zabusky, Norman J. et al., 2004d:76079**
Gupta, Sandeep *see* **Zabusky, Norman J. et al., 2004d:76079**
Gusev, V. N. (*with* Chinilov, A. Yu.) Interference of a bow shock with an oblique shock and an isentropic compression wave. (Russian. Russian summary) **2004i:76139**
Habashi, Wagdi G. *see* **Remaki, Malika**
Hafez, Mohamed M. On the incompressible limit of compressible fluid flow. (English summary) (*see* **2004d:76003**)
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(Halpern, Laurence) *see* **Absorbing boundaries and layers, domain decomposition methods, 2004k:76003**
Härterich, Jörg Viscous profiles of traveling waves in scalar balance laws: the canard case. (English summary) **2004m:35169**
Huang, Feimin (*with* Matsumura, Akitaka; Shi, Xiao-ding) Viscous shock wave and boundary layer solution to an inflow problem for compressible viscous gas. (English summary) **2004e:76078**
Hunter, John K. *see* **Thoo, John B., 2004i:35208**
Jiang, Gui Feng Formation and structure of a shock wave for the 2-D compressible Euler equations with initial data. I. (Chinese. English and Chinese summaries) **2004d:35168**
Jin, Shi *see* **Bouchut, François et al., 2004d:65086**
Klimenko, A. Yu. *see* **Class, Andreas G. et al., 2004i:80010** *and* **2004i:80011**
Kobayashi, Seijiro *see* **Ohwada, Taku**
Krueger, Paul S. (*with* Gharib, Morteza) The significance of vortex ring formation to the impulse and thrust of a starting jet. (English summary) **2004h:76114**
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Layton, Anita T. (*with* Minion, Michael L.) Conservative multi-implicit spectral deferred correction methods for reacting gas dynamics. (English summary) **2004k:76089**
van Leer, Bram *see* **Nishikawa, Hiroaki**, **2004m:65147**
LeFloch, Philippe G. (*with* Mai Duc Thanh) The Riemann problem for fluid flows in a nozzle with discontinuous cross-section. (English summary) **2004k:35255**
LeVeque, Randall J. *see* **Fazio, Riccardo**, **2004e:76082**
Levin, Vladimir A. (*with* Skopina, G. A.) Propagation of detonation waves in twisted gas flows. (Russian. Russian summary)
Li, Dening *see* **Chen, Shuxing et al.**, **2004b:76124**
Li, Jiequan (*with* Warnecke, Gerald G.) On measure solutions to the zero-pressure gas model and their uniqueness. (English summary) **2004d:35164**
Li, Xiantao *see* **Bouchut, François et al.**, **2004d:65086**
Li, Yi *see* **Zhu, Qingyong**, **2004j:76113**
Liska, Richard (*with* Wendroff, Burton) Comparison of several difference schemes on 1D and 2D test problems for the Euler equations. (English summary) **2004k:76088**
Liu, Biyue On a finite element method for unsteady compressible viscous flows. (English summary) **2004f:65152**
Liu, Hailiang (*with* Tadmor, Eitan) Critical thresholds and conditional stability for Euler equations and related models. (*see* **2004j:00016**)
— *see also* **Chen, Gui-Qiang**, **2004a:76080**
Liu, Jian-Guo[1] *see* **Wang, Cheng[4]**, **2004b:76105**
Liu, Miao'er *see* **Ren, Yu-Xin et al.**, **2004j:65136**
Liu, Tai-Ping (*with* Yu, Shih-Hsien) Energy method for equations in gas dynamics. (English summary) (*see* **2004j:00016**)
Liu, Yen *see* **Wang, Zhi Jian[4] et al.**
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Madhumita, G. (*with* Sharma, V. D.) Propagation of strong converging shock waves in a gas of variable density. (English summary) **2004a:76081**
Mahomed, F. M. *see* **Sjöberg, Astri**, **2004k:76095**
Mai Duc Thanh *see* **LeFloch, Philippe G.**, **2004k:35255**
Makino, Tetu Approximations of the relativistic Euler-Poisson-Darboux equation. **2004h:35172**
Mallikarjunaswami, B. P. (*with* Bagewadi, C. S.) Unsteady electro-magneto-gasdynamic flows. (English summary) **2004m:76174**
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Marmignon, Claude *see* **Coquel, Frédéric**, (**2004k:65005**)
Marquina, Antonio (*with* Mulet, Pep) A flux-split algorithm applied to conservative models for multicomponent compressible flows. (English summary)
— *see also* **Serna, Susana**, **2004j:65124**
Maryška, Jiří *see* **Šembera, Jan et al.**, (**2004h:65005**)
Massot, Marc *see* **Laurent, Frédérique et al.**, **2004k:76124**
Matkowsky, Bernard J. *see* **Class, Andreas G. et al.**, **2004i:80010** *and* **2004i:80011**
Matsumura, Akitaka *see* **Huang, Feimin et al.**, **2004e:76078**
Miklyukov, V. M. (*with* Polupanov, S. S.; Tarapata, R. A.) On the stabilization of solutions of an equation of gas dynamics. (Russian)
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Moiseev, T. E. *see* **Bakirova, M. I. et al.**, **2004d:76076**
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Dellacherie, Stéphane On the Wang Chang-Uhlenbeck equations. (English summary) **2004g:82040**

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Lucquin-Desreux, Brigitte *see* **Buet, Christophe et al.**, **2004a:82090**

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Nouri, Anne *see* **Arkeryd, Leif**, **2004m:35040**

Panferov, Vladislav *see* **Martínez-Gamba, Irene et al.**, **2004f:82070**

Pareschi, Lorenzo *see* **Naldi, Giovanni et al.**, **2004d:65117**

Pasol, Laurentiu *see* **Cabannes, Henri et al.**, **2004a:82082**

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Qamar, Shamsul *see* **Kunik, Matthias et al.**, **2004j:76125**

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Rogazinskiĭ, S. V. *see* **Mikhailov, Gennadii A.**, **2004h:65014**

Rossani, A. *see* **Groppi, Maria et al.**

Russo, Giovanni *see* **Filbet, Francis**, **2004c:82116**

Rykov, V. A. *see* **Larina, I. N.**, **2004c:76097**

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Santos, Andrés Transport coefficients of d-dimensional inelastic Maxwell models. (English

summary) **2004g:82124**
— *see also* **Sabbane, Mohamed et al., 2004g:82129**
Schürrer, F. *see* **Conforto, Fiammetta et al., 2004e:76113**
Seignole, V. *see* **Lorin, Emmanuel, 2004f:76095**
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Vignal, Marie Hélène *see* **Ben Abdallah, Naoufel et al., (2004j:00016)**
Villani, Cédric Cercignani's conjecture is sometimes true and always almost true. (English summary) **2004b:82048**
— *see also* **Martínez-Gamba, Irene et al., 2004f:82070** *and* **Desvillettes, Laurent, 2004i:82053**
Villedieu, Philippe *see* **Dufour, Guillaume et al., 2004d:76106**
Wagner, Wolfgang[1] *see* **Matheis, Ingo, 2004b:65009** *and* **Garcia, Alejandro L., 2004b:82051**
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Yepez, Jeffrey *see* **Vahala, Linda et al., 2004c:76115**
Yong, Wen-An *see* **Junk, Michael, 2004m:76004**
Yu, Shih-Hsien *see* **Ukai, Seiji et al., 2004j:82041**; **2004m:35024**; **(2004j:00016)** *and* **Liu, Tai-Ping, (2004j:00016)**
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Zhang, Kai-Jun *see* **Degond, Pierre, 2004f:82079** *and* **Xiao, Ling et al., 2004h:82107**
Ziegler, I. *see* **Conforto, Fiammetta et al., 2004e:76113**

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"Analytic solution of vector boundary value problems in the theory of gases" Erratum: "Analytic solution of vector boundary value problems in the theory of gases" (Russian) [Izv. Vyssh. Uchebn. Zaved. Mat. **2003**, no. 3, 59–68] by V. V. Sushkov. (Russian)
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76Q05 Hydro- and aero-acoustics

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Frankenthal, Shimshon *see* **Whitman, A. M. et al., 2004h:76138**
Galindo Linares, E. *see* **Torres del Castillo, G. F., 2004g:76108**
Gelfreikh, N. G. *see* **Buldyrev, V. S., (2004i:00014)**
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Han, Z. D. *see* **Qian, Zhongyan et al.**
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Huberson, Serge *see* **Rivoalen, Elie et al., 2004a:76121**
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Ioup, George E. *see* **Rayborn, Grayson H. et al., 2004j:76138**

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Isakov, Victor *see* **DeLillo, Thomas et al., 2004d:76093**
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Knio, Omar M. *see* **Rivoalen, Elie et al., 2004a:76121**
Kuo, S. R. *see* **Yeih, W. et al., 2004i:76171**
Kurbatskii, Konstantin A. (*with* Mankbadi, Reda R.) Review of computational aeroacoustics algorithms. (English summary)
Li, Fenghua *see* **Peng, Zhaohui et al., (2004h:76002)**
Li, Qi *see* **Liu, Jinzhong, (2004h:76002)**
Lin, Wuu-Wen *see* **Meecham, William C., (2004i:00014)**
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Lu, Ya Yan (*with* Zhu, Jianxin) A local orthogonal transform for acoustic waveguides with an interval interface. (English summary) **2004m:76138**
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Makrakis, George N. Parabolic approximation of nonlocal boundary conditions for elastic seabeds. (English summary) **2004b:76134**
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McIver, M. *see* **Duan, Yuting, 2004j:76134**
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Murphy, Joseph E. (*with* Chin-Bing, Stanley A.) Computational ocean-seismoacoustic modeling using finite elements. (English summary) **2004i:76169**
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Poblete, V. *see* **Arenas, J. P.**
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Povitsky, Alex (*with* Zheng, Tinghui; Vatistas, Georgios H.) Effect of vortex profile on sound generation in a non-uniform flow. (English summary)
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Rienstra, S. W. Sound propagation in slowly varying lined flow ducts of arbitrary cross-section. (English summary) **2004i:76170**
Riley, N. *see* **Rednikov, A. Y. et al., 2004h:76137**
Rivoalen, Elie (*with* Huberson, Serge; Knio, Omar M.) Numerical study of sound radiation by axisymmetric vortex rings. (English summary) **2004a:76121**
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Rossi, Tuomo *see* **Heikkola, Erkki et al., 2004h:76135**
Ryzhik, Leonid *see* **Papanicolaou, George et al., 2004c:76132** *and* **Bal, Guillaume, 2004h:76134**
Sadhal, S. S. *see* **Rednikov, A. Y. et al., 2004h:76137**
Sánchez-Pérez, J. V. *see* **Romaguera, Salvador et al., 2004m:76140**
Sarkissian, Angie Nearfield acoustical holography. (English summary) **2004j:76139**
Shang, Er-Chang *see* **Wang, Ning[3], (2004h:76002)**
Simek, O. *see* **Hadjiconstantinou, Nicolas G., 2004i:76166**
Skarsoulis, E. K. *see* **Makrakis, George N.**
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Tam, Christopher K. W. Computational aeroacoustic examples showing the failure of the acoustic analogy theory to identify the correct noise sources. (English summary) **2004b:76135**
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Toivanen, Jari *see* **Heikkola, Erkki et al., 2004h:76135**
Torres del Castillo, G. F. (*with* Galindo Linares, E.) Hamiltonian structures for the acoustic field. (English and Spanish summaries) **2004g:76108**
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Tzagkarakis, George *see* **Taroudakis, Michael I.**
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Valero, O. *see* **Romaguera, Salvador et al., 2004m:76140**
Vatistas, Georgios H. *see* **Povitsky, Alex et al.**
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Wirgin, Armand *see* **Gilbert, Robert Pertsch et al., (2004i:00014); Buchanan, James L. et al., (2004i:00014)** *and* **Ogam, Erick**
Xu, Yongzhi S. *see* **Gilbert, Robert Pertsch et al., (2004i:00014)** *and* **Buchanan, James L. et al., (2004i:00014)**
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Zhang, Renhe *see* **Peng, Zhaohui et al., (2004h:76002)**
Zheng, Chunxiong *see* **Han, Hou-de, 2004b:76133**
Zheng, Tinghui *see* **Povitsky, Alex et al.**
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Zirilli, Francesco *see* **Recchioni, Maria Cristina, 2004m:76139** *and* **Fatone, L. et al., (2004i:00014)**

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Balasubramanian, Kannan *see* **Marklein, R. et al., 2004a:78028**
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Beran, Mark J. *see* **Frankenthal, Shimshon, 2004k:35287**
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Berryman, James G. *see* **Pride, Steven R.**
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Borcea, Liliana (*with* Papanicolaou, George; Tsogka, Chrysoula) A resolution study for imaging and time reversal in random media. (English summary) **2004k:35390**
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Carvalho, Paulo M. *see* **Weglein, Arthur B. et al., 2004k:86009**

Casalis, Grégoire *see* **Millet, Christophe, 2004k:76077**

Cessenat, Olivier (*with* Després, Bruno) Using plane waves as base functions for solving time harmonic equations with the ultra weak variational formulation. (English summary) **2004j:65182**

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Chyuan, Shiang-Woei *see* **Chen, Jeng-Tzong et al.**

Coates, Richard T. *see* **Weglein, Arthur B. et al., 2004k:86009**

Colton, David Inverse acoustic and electromagnetic scattering theory. (English summary) **2004k:35398**

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Corrigan, Dennis *see* **Weglein, Arthur B. et al., 2004k:86009**

Craster, Richard V. (*with* Shanin, A. V.; Doubravsky, E. M.) Embedding formulae in diffraction theory. (English summary) **2004h:78015**

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(Crighton, David G.) *see* **Wu, Sean F., 2004b:74045**

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Després, Bruno *see* **Cessenat, Olivier, 2004j:65182**

Dettmar, Joachim *see* **Miehe, Christian, 2004k:74028**

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Farhat, Charbel *see* **Hetmaniuk, Ulrich, 2004g:76098** *and* **Turkel, Eli et al.**

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Franco, J. M. *see* **Calvo Pinilla, M. et al.**

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Gadyl′shin, R. R. Scattering by a cylindrical trap in the critical case. (Russian. Russian summary) **2004e:35035**

Gamallo, P. *see* **Bermúdez de Castro, Alfredo et al., 2004f:74087**

(Gao, Tain Fu) *see* **Theoretical and computational acoustics, 2004h:76002**

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Goriely, Alain *see* **McMillen, Tyler, 2004k:74058**

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Gowda, Shivaraju *see* **Kechroud, Riyad et al.**

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Grote, Marcus *see* **Bangerth, Wolfgang et al., 2004m:76102**

(Guran, Ardéshir) *see* **Acoustic interactions with submerged elastic structures, 2004g:76002**

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Hannemann, Regina *see* **Marklein, R. et al., 2004a:78028**

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Piraux, Joël *see* **Lombard, Bruno**, **2004m:65125** *and* (**2004e:65004**)
Potthast, Roland *see* **Chandler-Wilde, Simon N.**, **2004d:35190**
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Rondi, Luca Unique determination of non-smooth sound-soft scatterers by finitely many far-field measurements. (English summary) **2004i:35313**
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Schröder, Wolfgang[2] *see* **Ewert, Roland**, **2004d:76082**
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Shaw, Simon A. *see* **Weglein, Arthur B. et al.**, **2004k:86009**
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76R10 Free convection

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76R99 None of the above, but in this section

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Marini, Luisa Donatella *see* **Brezzi, Franco et al., 2004f:65163**
Maryška, Jiří *see* **Hokr, Milan et al., (2004h:65005)**
McGee, Bruce *see* **Bohun, C. Sean et al.**
Meziani, Bachir *see* **Amaouche, Mustapha, 2004a:76103**
Nath, G. Baikunth *see* **Kumari, Mahesh**
Net, Marta *see* **Alonso, Arantxa et al., 2004i:76097**
Pyatnitskii, Andrei L. *see* **Kleptsyna, Marina, 2004i:35030**
Ross, David Stewart *see* **Bohun, C. Sean et al.**
Salama, Abdelhay Azoz *see* **Hassanien, I. A. et al., 2004i:76177**
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Šembera, Jan *see* **Hokr, Milan et al., (2004h:65005)**
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Vabishchevich, Petr N. Iterative methods for solving convection-diffusion problem. (English summary) **2004f:65172**
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Xu, Wen-Qing *see* **Liu, Jian-Guo[1], 2004k:35212**
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Zenger, Christoph *see* **Bader, Michael, 2004g:65171**

76S05 Flows in porous media; filtration; seepage

Abarzhi, I. I. *see* **Borshchevskiĭ, Yu. T. et al., 2004h:76141**
Abd El-Hameed, Faten S. M. *see* **Emara, Salah A. A., 2004g:76117**
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Ashraf, Ehsan Ellahi *see* **Mohyuddin, Muhammad R., 2004k:76116**
Attinger, Sabine Generalized coarse graining procedures for flow in porous media. (English summary) **2004i:76174**
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Bertsch, Michiel (*with* Dal Passo, Roberta; van Duijn, C. J.) Analysis of oil trapping in porous media flow. (English summary) **2004g:76114**
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Birgersson, E. *see* **Vynnycky, M., 2004e:76108**
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Bonorino, Leonardo Prange *see* **Lukaszczyk, João Paulo et al., 2004d:76101**
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Bradean, R. *see* **Bridge, L. et al., 2004e:76104**
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Chaib, M. *see* **Garrido, Izaskun et al.**
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Chekalin, A. N. *see* **Konyukhov, V. M.**, (**2004e:00008**)
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— (*with* Ewing, Richard E.) Degenerate two-phase incompressible flow. IV. Local refinement and domain decomposition. (English summary) **2004b:76139**
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Collins, Charles R. *see* **Ahmed, Shabbir, 2004g:76110**
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Coronado, Manuel (*with* Ramírez, Jetzabeth; Samaniego, Fernando) New considerations on analytical solutions employed in tracer flow modeling. (English summary)
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Crolet, Jean-Marie *see* **Calugaru, Cerasela-Iliana et al., 2004f:76102**
Cunha, Francisco Ricardo *see* **Sobral, Y. D., 2004g:76122**
Cunha, M. C. C. (*with* dos Santos, Marcelo Martins; Bonet, J. E.) Buckley-Leverett mathematical and numerical models describing vertical equilibrium process in porous media. (English summary)
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De Sterck, Hans *see* **Bartholomeeusen, Gert et al.**, (**2004j:00016**)
Díaz Díaz, Jesús Ildefonso *see* **Conca, Carlos et al., 2004m:76153**
Didierjean, S. *see* **Amaral Souto, H. P. et al., 2004g:76112**
Didwania, Anjani Kumar *see* **de Boer, Reint, 2004m:76148**
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Duchon, Jean (*with* Robert, Raoul) Linear wellposedness of the evolution equation of a mixing strip of two fluids with initially sharp interface in a porous medium. (English summary) **2004j:76145**
van Duijn, C. J. *see* **Bertsch, Michiel et al., 2004g:76114**
Durlofsky, L. J. *see* **Efendiev, Yalchin R., 2004j:76146**
Ebrahimi, Fatemeh (*with* Sahimi, Muhammad) Multiresolution wavelet scale up of unstable miscible displacements in flow through heterogeneous porous media. (English summary)
Efendiev, Yalchin R. (*with* Durlofsky, L. J.) A generalized convection-diffusion model for subgrid transport in porous media. (English summary) **2004j:76146**
Efimtsev, S. V. (*with* Nustrov, V. S.; Okhezin, S. P.; Podoplelov, V. V.) Some problems of filtration in deformable media. (Russian. English and Russian summaries)
Egorov, Andrei G. *see* **Demidov, D. E.**, (**2004b:76001**) *and* **Dautov, R. Z.**, (**2004e:00008**)
Elaiw, A. M. *see* **Hassanien, I. A. et al., 2004i:76177**
Elliott, Lionel *see* **Al-Hadhrami, A. K. et al., 2004c:76137** *and* **Nield, D. A.**
Emara, Salah A. A. (*with* Abd El-Hameed, Faten S. M.) Reactive flows in porous media. (English summary) **2004g:76117**
Ene, Horia I. (*with* Poliševski, Dan) Model of diffusion in partially fissured media. (English summary) **2004b:76140**
Entov, V. M. Mathematics of enhanced oil recovery.
Espedal, M. S. *see* **Garrido, Izaskun et al.**
Essawy, A. H. *see* **Hassanien, I. A. et al., 2004m:76154**
Ewing, Richard E. Upscaling of biological processes and multiphase flow in highly heterogeneous media. (English summary) **2004a:76126**
— *see also* **Chen, Zhangxin**, **2004b:76139**; **Wang, Hong**[9] **et al.**, **2004b:76144** *and* **Liu, Jiang-Guo et al.**, (**2004h:65005**)
Eymard, Robert (*with* Herbin, Raphaèle; Michel, Anthony) Mathematical study of a petroleum-engineering scheme. (English summary) **2004j:76147**
Facin, P. C. *see* **Santos, L. O. E. et al., 2004g:76120**
Fasano, Antonio (*with* Solonnikov, Vsevolod Alekseevich) On one-dimensional unsaturated flow in a porous medium with hydrophile grains. **2004b:76141**
— (*with* Solonnikov, Vsevolod Alekseevich) Unsaturated incompressible flows in adsorbing porous media. (English summary) **2004k:76113**
Fedele, Francesco (*with* McKay, Melissa; Pinder, George F.; Guarnaccia, Joseph F.) Single-degree of freedom Hermite collocation for multiphase flow and transport in porous media. (English summary)
Fiori, Aldo *see* **Jankovic, Igor et al., 2004b:76142**
Fladmark, G. E. *see* **Garrido, Izaskun et al.**
Frías, Diego (*with* Murad, Márcio A.; Pereira, Felipe) Stochastic computational modeling of reservoir compaction due to fluid withdrawal. (English summary) **2004g:76118**
— *see also* **Douglas, Jim, Jr. et al.**, (**2004h:00025**)
Frigaard, I. A. *see* **Pelipenko, S., 2004j:76153**
Furtado, Frederico (*with* Pereira, Felipe) Crossover from nonlinearity controlled to heterogeneity controlled mixing in two-phase porous media flows. (English summary) **2004c:76143**
Gagneux, Gérard (*with* Masson, Roland; Plouvier-Debaigt, Anne; Vallet, Guy; Wolf, Sylvie) Vertical compaction in a faulted sedimentary basin. (English summary) **2004e:76105**
Garcia, Ronaldo A. *see* **da Mota, Jesus C. et al., 2004c:76142**
Garrido, Izaskun (*with* Øian, E.; Chaib, M.; Fladmark, G. E.; Espedal, M. S.) Implicit treatment of compositional flow. (English summary)
— (*with* Fladmark, G. E.; Espedal, M. S.) An improved numerical simulator for multiphase flow in porous media. (English summary)
Ghemires, Touria *see* **Chakib, Abdelkrim et al., 2004b:76138** *and* **2004m:76149**
Gipouloux, Olivier *see* **Bourgeat, Alain et al., 2004k:76112** *and* (**2004m:00011**)
Goldfarb, Igor *see* **Bykov, Viatcheslav et al., 2004i:76176**
Gol′dshtein, Vladimir *see* **Bykov, Viatcheslav et al., 2004i:76176**
Govindaraju, R. S. *see* **Kasimov, A. R.** *and* **Parlange, J.-Y. et al.**
Govorukhin, V. (*with* Shevchenko, Igor Vladimirovich) Families of stationary regimes in filtration convection—their origin and evolution. (English summary) (*see* **2004e:00013**)
Grimstad, Alv-Arne (*with* Mannseth, Trond; Nævdal, Geir; Urkedal, Hege) Adaptive multiscale permeability estimation. (English summary) **2004a:76127**

Groşan, T. (*with* Pop, Ioan[2]) A diffusion problem in a circular domain in a porous layer.
Guadagnini, Alberto *see* **Tartakovskiĭ, D. M. et al., 2004h:76149**
Guarnaccia, Joseph F. *see* **Fedele, Francesco et al.**
Gubkina, E. V. (*with* Monakhov, V. N.) Filtration of a fluid in an unbounded stratum with an inclined water-confining bed. (Russian. Russian summary) **2004c:76144**
Guenther, Chris (*with* Syamlal, Madhava) The effect of numerical diffusion on gas-solids fluidized beds and the use of deferred correction in a finite volume method to stabilize high order discretization of convection terms. (English summary) (*see* **2004h:00025**)
Guermond, Jean Luc *see* **Cortis, Andrea et al., 2004d:76099**
Hager, Jörgen (*with* Whitaker, Stephen) Vapor-liquid jump conditions within a porous medium: results for mass and energy. (English summary) **2004a:76128**
Hanyga, Andrzej (*with* Lu, Jianfei) Thermal effects in immiscible two-fluid porous flow. (English summary)
Hassanien, I. A. (*with* Salama, Abdelhay Azoz; Elaiw, A. M.) Variable permeability effect on vortex instability of mixed convection flow in a semi-infinite porous medium bounded by a horizontal surface. (English summary) **2004i:76177**
— (*with* Essawy, A. H.; Moursy, N. M.) Natural convection flow of micropolar fluid from a permeable uniform heat flux surface in porous medium. (English summary) **2004m:76154**
Hazra, S. B. (*with* Class, H.; Helmig, R.; Schulz, Volker) Forward and inverse problems in modeling of multiphase flow and transport through porous media. (English summary)
Helmig, R. *see* **Hazra, S. B. et al.**
Herbin, Raphaèle *see* **Eymard, Robert et al., 2004j:76147**
Hill, A. A. Convection due to the selective absorption of radiation in a porous medium. (English summary) **2004m:76155a**
— Erratum: "Convection due to the selective absorption of radiation in a porous medium" [Contin. Mech. Thermodyn. **15** (2003), no. 3, 275–285]. **2004m:76155b**
— Convection induced by the selective absorption of radiation for the Brinkman model. (English summary) **2004j:76148**
Hogarth, W. L. *see* **Kasimov, A. R.** *and* **Parlange, J.-Y. et al.**
Hokr, Milan (*with* Maryška, Jiří; Šembera, Jan) Modelling of transport with non-equilibrium effects in dual-porosity media. (English summary) (*see* **2004h:65005**)
Hooman, K. (*with* Ranjbar-Kani, A. A.) A perturbation based analysis to investigate forced convection in a porous saturated tube. (English summary)
Huan, Guanren *see* **Chen, Zhangxin et al., 2004c:76140**; **2004m:76151**; **Li, Baoyan et al., 2004j:76151**; **2004j:76152** *and* **Liu, Jiang-Guo et al.,** (**2004h:65005**)
Huang, Chieh-Sen *see* **Douglas, Jim, Jr. et al., 2004h:76142**
Hundal, B. S. *see* **Kumar, Rajneesh**
Imomnazarov, Kholmatzhon Kh. Modified Darcy laws that take into account electromagnetic fields. (Russian)
Ingham, D. B. *see* **Al-Hadhrami, A. K. et al., 2004c:76137** *and* **Nield, D. A.**
Islam, M. R. *see* **Panawalage, S. P. et al.**
Iza Teran, R. *see* **Knabner, Peter et al.,** (**2004d:00011**)
James, David F. *see* **Davis, Anthony M. J., 2004d:76100**
Jankovic, Igor (*with* Fiori, Aldo; Dagan, Gedeon) Effective conductivity of an isotropic heterogeneous medium of lognormal conductivity distribution. (English summary) **2004b:76142**
Johannsen, Klaus On the validity of the Boussinesq approximation for the Elder problem. (English summary) **2004h:76143**
Joseph, Daniel D. (*with* Kamp, A. M.; Bai, Runyuan) Foamy oil flow in porous media. (English summary) **2004c:76145**
Joshi, D. C. A general solution for imbibition in double phase flow through porous media with hypergeometric functions. (English summary)
Juanes, Ruben (*with* Patzek, Tadeusz W.) Analytical solution to the Riemann problem of three-phase flow in porous media. (English summary) **2004j:76149**
Jupp, T. E. (*with* Woods, Andrew W.) Thermally driven reaction fronts in porous media. (English summary) **2004h:76144**
Jurak, Mladen Upscaling of two-phase flow. (English summary) **2004f:76103**
Kačur, Jozef (*with* Van Keer, Roger) Contaminant transport with adsorption in dual-well flow. (English summary) **2004m:76156**
Kaliev, I. A. (*with* Sabitova, G. S.) On a problem of nonequilibrium sorption. (Russian. Russian summary) **2004h:76145**
Kamp, A. M. *see* **Joseph, Daniel D. et al., 2004c:76145**
Karasözen, B. (*with* Tsybulin, Vyacheslav) Cosymmetric families of steady states in Darcy convection and their collision. (English summary) **2004k:76114**
Kasimov, A. R. (*with* Obnosov, Yu. V.) Analytic solutions of problems of filtration in porous media and their applications. (Russian) (*see* **2004e:00008**)
— (*with* Serrano, S. E.) Comments on: "On an exact analytical solution of the Boussinesq equation" [Transp. Porous Media **39** (2000), no. 3, 339–345; 1947797] by J.-Y. Parlange, W. L. Hogarth, R. S. Govindaraju, M. B. Parlange and D. Lockington.
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Keller, Bruno *see* **Rees, D. Andrew S. et al., 2004f:76107** *and* **Magyari, E. et al., 2004k:76115**
Khalili, A. (*with* Shivakumara, I. S.) Non-Darcian effects on the onset of convection in a porous layer with throughflow. (English summary)
Khalique, Chaudry Masood Some invariant solutions of certain soil water equations. (English summary) **2004e:76106**
Khapov, A. P. (*with* Shkhanukov, M. Kh.) The Rothe method for solving the first initial-boundary value problem for a filtration equation in a cracked-porous medium. (Russian. Russian summary)
Kinzelbach, Wolfgang *see* **Attinger, Sabine et al., 2004j:76141**
Knabner, Peter (*with* Bitterlich, Sandro; Iza Teran, R.; Prechtel, A.; Schneid, E.) Influence of surfactants on spreading of contaminants and soil remediation. (English summary) (*see* **2004d:00011**)
— *see also* **Bitterlich, Sandro, 2004i:76175**
Koldoba, A. V. (*with* Koldoba, E. V.) The discontinuous solutions of the transport equations for compositional flow in porous media. (English summary) **2004c:76146**
Koldoba, E. V. *see* **Koldoba, A. V., 2004c:76146**
Konyukhov, V. M. (*with* Chekalin, A. N.) The influence of the structure of a petroleum stratum on the process of two-phase multicomponent filtration. (Russian. Russian summary) (*see* **2004e:00008**)
Kosterin, A. V. Models and problems in the mechanics of saturated and porous media. (Russian. Russian summary) (*see* **2004e:00008**)
Kulasiri, D. *see* **Verwoerd, W. S., 2004k:76119**
Kumar, Rajneesh (*with* Hundal, B. S.) One-dimensional wave propagation in a non-homogeneous fluid saturated incompressible porous medium. (English summary)
Kumari, Mahesh (*with* Nath, G. Baikunth) Non-Darcy mixed convection in power-law fluids along a non-isothermal horizontal surface in a porous medium. (English summary)
Kurbanmuradov, O. (*with* Sabelfeld, K. K.; Smidts, O. F.; Vereecken, Harry) A Lagrangian stochastic model for the transport in statistically homogeneous porous media. (English summary) **2004j:76150**
Kurganov, Dmitri On the numerical solution of a minimization problem in modeling stratum systems. (Russian. Russian summary)
Kuznetsov, A. V.[2] (*with* Xiong, Ming[2]; Nield, D. A.) Thermally developing forced convection in a porous medium: circular duct with walls at constant temperature, with longitudinal conduction and viscous dissipation effects. (English summary) **2004e:76107**
Lacabanne, B. Homogenization of heat and mass conservation equations in porous media. (English summary) (*see* **2004h:00021**)
Lafarge, Denis *see* **Cortis, Andrea et al., 2004d:76099**
Lavrik, V. Ī. (*with* Bulavats′kiĭ, V. M.) Mathematical modeling of some nonequilibrium filtration processes. (Ukrainian. English summary)
Lenhard, Robert J. *see* **Tartakovsky, Alexandre M. et al., 2004h:76150**
Li, Baoyan (*with* Chen, Zhangxin; Huan, Guanren) Modeling horizontal wells with the CVFA method in black oil reservoir simulations. (English summary) **2004j:76151**
— (*with* Chen, Zhangxin; Huan, Guanren) Comparison of solution schemes for black oil reservoir simulations with unstructured grids. (English summary) **2004j:76152**
— *see also* **Chen, Zhangxin et al., 2004c:76140**; **2004m:76151** *and* **Liu, Jiang-Guo et al.,** (**2004h:65005**)
Liang, Dong *see* **Wang, Hong[9] et al., 2004b:76144**
Liu, Jiang-Guo (*with* Chen, Zhangxin; Ewing, Richard E.; Huan, Guanren; Li, Baoyan; Wang, Zhongxiao) Parallel computing in the black oil model. (English summary) (*see* **2004h:65005**)
Lockington, D. *see* **Kasimov, A. R.** *and* **Parlange, J.-Y. et al.**
Lu, Jianfei *see* **Hanyga, Andrzej**
Lukaszczyk, João Paulo (*with* Taschetto, Carlos Antonio; Bonorino, Leonardo Prange) Incompressible flow in isotropic granular porous media in a time dependent domain. (English summary) **2004d:76101**
Lyons, Stephen L. *see* **Wang, Hong[9] et al., 2004b:76144**
Magyari, E. (*with* Pop, Ioan[2]; Keller, Bruno) Analytical solutions for unsteady free convection in porous media. (English summary) **2004k:76115**
— (*with* Keller, Bruno) Backward free convection boundary layers in porous media. (English summary)
— *see also* **Rees, D. Andrew S. et al., 2004f:76107**
Mannseth, Trond *see* **Grimstad, Alv-Arne et al., 2004a:76127**
Manoranjan, Valipuram S. (*with* Stauffer, Thomas B.) Analytical solution for solute transport with Freundlich sorption. (English summary) **2004h:76146**
Marinoschi, Gabriela On the volumetric water content discontinuity in a unsaturated layered soil. (English summary)
— Nonlinear infiltration with a singular diffusion coefficient. (English summary) **2004g:76119**
— *see also* **Barbu, Viorel, 2004j:76142**
Marinov, Anca Marina A two dimensional mathematical model for simulating water and chemical transport in an unsaturated soil. (English summary)
Marušić-Paloka, Eduard *see* **Bourgeat, Alain et al., 2004k:76112** *and* (**2004m:00011**)
Maryška, Jiří *see* **Hokr, Milan et al.,** (**2004h:65005**)
Masson, Roland *see* **Gagneux, Gérard et al., 2004e:76105** *and* **Scheichl, R. et al., 2004j:76154**
McGee, Bruce *see* **Bohun, C. Sean et al.**
McKay, Melissa *see* **Fedele, Francesco et al.**
McLaughlin, Richard M. *see* **Anderson, Daniel Michael et al., 2004g:76113**
Meiburg, Eckart *see* **Riaz, Amir, 2004b:76143**
Michel, Anthony *see* **Eymard, Robert et al., 2004j:76147**
Mikelić, Andro Recent developments in multiscale problems coming from fluid mechanics. (English summary) **2004f:76104**
— *see also* **Bourgeat, Alain et al., 2004g:76115** *and* **Clopeau, Thierry,** (**2004m:00011**)
Mikhalevich, V. V. *see* **Borshchevskiĭ, Yu. T. et al., 2004h:76141**
Miller, Cass T. *see* **Anderson, Daniel Michael et al., 2004g:76113**
Mohyuddin, Muhammad R. (*with* Ashraf, Ehsan Ellahi) Inverse solutions for a second-grade fluid for porous medium channel and Hall current effects. (English summary) **2004k:76116**
Monakhov, V. N. On the well-posedness of contact problems of liquid filtration. (Russian) **2004f:76105**
— Combination of basic mathematical models of the filtration of a two-phase fluid. (Russian. English and Russian summaries) **2004h:76147**
— *see also* **Gubkina, E. V., 2004c:76144** *and* **Zhumagulov, B. T., 2004k:76120**
da Mota, Jesus C. (*with* de Souza, Aparecido Jesuino; Garcia, Ronaldo A.; Teixeira, Pedro W.) Oxidation fronts in a simplified model for two-phase flow in porous media. (English summary) **2004c:76142**
Moursy, N. M. *see* **Hassanien, I. A. et al., 2004m:76154**
Moyne, Christian *see* **Amaral Souto, H. P. et al., 2004g:76112**
Mukhamadullina, G. I. *see* **Alimov, M. M., 2004j:76140**
Murad, Márcio A. *see* **Frias, Diego et al., 2004g:76118**
Murzenko, V. V. *see* **Bogdanov, Ilya I. et al., 2004h:76140**
Muzaev, Illarion Davidovich (*with* Tuaeva, Zh. D.) Mathematical modeling of transients in the selective water intake from a stratified reservoir. (Russian. Russian summary)
Myrsydykov, E. T. *see* **Aitaliev, Sh. M. et al.**
Nachaoui, Abdeljalil *see* **Chakib, Abdelkrim et al., 2004b:76138** *and* **2004m:76149**
Nævdal, Geir *see* **Grimstad, Alv-Arne et al., 2004a:76127**
Narasimha Charyulu, V. (*with* Venkatraman, P.) Non-Darcian MHD flow through a rotating porous duct. (English summary)
Nath, G. Baikunth *see* **Kumari, Mahesh**
Neuman, Shlomo P. *see* **Tartakovsky, Alexandre M. et al., 2004h:76150** *and* **Amir, Orna**

Nield, D. A. Comments on: "A new model for viscous dissipation in porous media across a range of permeability values" [Transp. Porous Media **53** (2003), no. 1, 117–122] by A. K. Al-Hadhrami, L. Elliott and D. B. Ingham.
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Nustrov, V. S. *see* **Efimtsev, S. V. et al.**
Obnosov, Yu. V. *see* **Kasimov, A. R., (2004e:00008)**
Oian, E. *see* **Garrido, Izaskun et al.**
Okhezin, S. P. *see* **Efimtsev, S. V. et al.**
Ondami, B. *see* **Amaziane, B., (2004h:00021)**
Ortoleva, P. *see* **Tuncay, K., 2004a:76129**
Panawalage, S. P. (*with* Biazar, J.; Rahman, Matiur; Islam, M. R.) An analytical approximation to the solution of reservoir permeability from the porous flow equation. (English summary)
Panfilov, Mikhail *see* **Calugaru, Cerasela-Iliana et al., 2004f:76102**; **Buès, M., 2004j:76143** *and* **Carasso, Claude et al.**
Parlange, J.-Y. (*with* Barry, D. A.; Hogarth, W. L.; Govindaraju, R. S.; Parlange, Marc B.; Lockington, D.) Reply to: "Comments on: 'On an exact analytical solution of the Boussinesq equation'" [Transp. Porous Media **52** (2003), no. 3, 389–394] by A. R. Kacimov and S. E. Serrano.
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Parlange, Marc B. *see* **Kasimov, A. R.** *and* **Parlange, J.-Y. et al.**
Paşa, Gelu I. Linear stability in oil recovery. (English summary) **2004f:76106**
— *see also* **Carasso, Claude et al.**
Patzek, Tadeusz W. *see* **Juanes, Ruben, 2004j:76149** *and* **Silin, D. B.**
Pelipenko, S. (*with* Frigaard, I. A.) Mud removal and cement placement during primary cementing of an oil well. II. Steady-state displacements. (English summary) **2004j:76153**
Peratta, A. (*with* Popov, Viktor) Modelling flow and solute transport in fractured porous media. (English summary) (*see* **2004k:65004**)
Pereira, Felipe *see* **Furtado, Frederico, 2004c:76143**; **Almeida, César et al., 2004g:76111**; **Frías, Diego et al., 2004g:76118** *and* **Douglas, Jim, Jr. et al., (2004h:00025)**
Philippi, P. C. *see* **Santos, L. O. E. et al., 2004g:76120**
Pinder, George F. *see* **Fedele, Francesco et al.**
Pironneau, Olivier *see* **Bernardi, Christine, 2004b:76137**
Plouvier-Debaigt, Anne *see* **Gagneux, Gérard et al., 2004e:76105**
Podoplelov, V. V. *see* **Efimtsev, S. V. et al.**
Poliševski, Dan *see* **Ene, Horia I., 2004b:76140**
Pop, Ioan[2] *see* **Magyari, E. et al., 2004k:76115** *and* **Groşan, T.**
Popov, Viktor *see* **Peratta, A., (2004k:65004)**
Prechtel, A. *see* **Knabner, Peter et al., (2004d:00011)**
Pride, Steven R. (*with* Berryman, James G.) Linear dynamics of double-porosity dual-permeability materials. I. Governing equations and acoustic attenuation. (English summary)
— (*with* Berryman, James G.) Linear dynamics of double-porosity dual-permeability materials. II. Fluid transport equations. (English summary)
Protsyshin, B. N. *see* **Borshchevskiĭ, Yu. T. et al., 2004h:76141**
Pyatnitskii, Andrei L. *see* **Bourgeat, Alain et al., 2004g:76115**
Qatanani, Naji A. (*with* Barghouthi, Imad A.) On magnetohydrodynamic flow through porous media. (English summary) **2004d:76102**
— *see also* **Allan, Fathi M. et al., 2004k:76111**
Qin, Guan *see* **Wang, Hong[9] et al., 2004b:76144**
Quintanilla, Ramón Exponential stability in porous media problem saturated by multiple immiscible fluids. (English summary) **2004k:76117**
Radvogin, Yu. B. Characteristic properties of the multicomponent filtration system and necessary conditions for the well-posedness of the Cauchy problem. (English summary) **2004d:76103**
— The canonical form of equations of two-component filtration. (Russian)
Rahman, Matiur *see* **Panawalage, S. P. et al.**
Ramírez, Jetzabeth *see* **Coronado, Manuel et al.**
Ranjbar-Kani, A. A. *see* **Hooman, K.**
Raw, Alan W. V. (*with* Woods, Andrew W.) On gravity-driven flow through a reacting porous rock. **2004h:76148**
Rees, D. Andrew S. (*with* Magyari, E.; Keller, Bruno) The development of the asymptotic viscous dissipation profile in a vertical free convective boundary layer flow in a porous medium. (English summary) **2004f:76107**
— (*with* Tyvand, Peder A.) The Helmholtz equation for convection in two-dimensional porous cavities with conducting boundaries. (English summary) **2004m:76157**
Riaz, Amir (*with* Meiburg, Eckart) Three-dimensional miscible displacement simulations in homogeneous porous media with gravity override. (English summary)
— (*with* Meiburg, Eckart) Radial source flows in porous media: linear stability analysis of axial and helical perturbations in miscible displacements. (English summary) **2004b:76143**
Riva, Monica *see* **Tartakovskiĭ, D. M. et al., 2004h:76149**
Robert, Raoul *see* **Duchon, Jean, 2004j:76145**
Ross, David Stewart *see* **Bohun, C. Sean et al.**
Sabelfeld, K. K. *see* **Kurbanmuradov, O. et al., 2004j:76150**
Sabitova, G. S. *see* **Kaliev, I. A., 2004h:76145**
Sac-Epee, Jean-Marc *see* **Belhachmi, Zakaria et al., 2004c:76138**
Sahimi, Muhammad *see* **Ebrahimi, Fatemeh**
Salama, Abdelhay Azoz *see* **Hassanien, I. A. et al., 2004i:76177**
Samaniego, Fernando *see* **Coronado, Manuel et al.**
Santos, L. O. E. (*with* Philippi, P. C.; Bertoli, S. L.; Facin, P. C.) Lattice-gas models for single and two-phase flows: application to the up-scaling problem in porous microstructures. (English summary) **2004g:76120**
dos Santos, Marcelo Martins *see* **Cunha, M. C. C. et al.**
Scheichl, R. (*with* Masson, Roland; Wendebourg, J.) Decoupling and block preconditioning for sedimentary basin simulations. (English summary) **2004j:76154**
Schneid, E. *see* **Knabner, Peter et al., (2004d:00011)**
Schulz, Volker *see* **Hazra, S. B. et al.**
Selvadurai, A. P. S. On the uniqueness theorem for advective-diffusive transport in porous media: a canonical proof. (English summary) **2004m:76158**
Šembera, Jan *see* **Hokr, Milan et al., (2004h:65005)**
Serbina, L. I. A model of substance transfer in fractal media. (Russian. English and Russian summaries) **2004g:76121**
Serrano, S. E. *see* **Kasimov, A. R.** *and* **Parlange, J.-Y. et al.**
Shelukhin, Vladimir A problem of capillary displacement for a model of three-phase filtration. (Russian. Russian summary) **2004m:76159**
Shevchenko, Igor Vladimirovich *see* **Govorukhin, V., (2004e:00013)**
Shivakumara, I. S. *see* **Khalili, A.**
Shkhanukov, M. Kh. *see* **Khapov, A. P.**
Showalter, R. E. Diffusion in deforming porous media. (English summary) **2004i:76178**
Silin, D. B. (*with* Patzek, Tadeusz W.) On Barenblatt's model of spontaneous countercurrent imbibition. (English summary)
Sills, Gilliane *see* **Bartholomeeusen, Gert et al., (2004j:00016)**
da Silveira, O. T. *see* **Amaral Souto, H. P. et al., 2004g:76112**
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Suyucheva, D. T. *see* **Skvortsov, È. V., (2004e:00008)**
Svanadze, Merab *see* **de Boer, Reint, 2004m:76147**
Sy, Mamadou *see* **Bresch, Didier, 2004c:76139**
Syamlal, Madhava *see* **Guenther, Chris, (2004h:00025)**
Takatka, Khaled M. *see* **Allan, Fathi M. et al., 2004k:76111**
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Vallet, Guy *see* **Gagneux, Gérard et al., 2004e:76105**
Van Keer, Roger *see* **Kačur, Jozef, 2004m:76156**
Venkatraman, P. *see* **Narasimha Charyulu, V.**
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Wendebourg, J. *see* **Scheichl, R. et al., 2004j:76154**
Wetton, Brian T. R. *see* **Bridge, L. et al., 2004e:76104**
Whitaker, Stephen *see* **Hager, Jörgen, 2004a:76128**
Wolf, Sylvie *see* **Gagneux, Gérard et al., 2004e:76105**
Woods, Andrew W. *see* **Jupp, T. E., 2004h:76144** *and* **Raw, Alan W. V., 2004h:76148**
Wright, Stephen James *see* **Spagnuolo, Anna Maria, 2004d:76104**
Xiong, Ming[2] *see* **Kuznetsov, A. V.[2] et al., 2004e:76107**
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Yuan, Yirang The modified characteristic finite difference fractional steps method for the coupled system of fluid dynamics in porous media and its analysis. (English summary) **2004d:76105**
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Huacasi, Wilma *see* **Leont′ev, A. N. et al.**, **2004m:92037**

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Hulshof, Josephus *see* **Aronson, Don G. et al.**, **2004f:35091** *and* **Errata: "Parametric dependence of exponents and eigenvalues in focusing porous media flows"**

Hutter, Kolumban *see* **Kosiński, Witold et al.**, **2004b:74026**

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Kaltenbacher, Barbara *see* **Ben Ameur, H.**, **2004b:65140**

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Kirby, Robert Residual a posteriori error estimates for the mixed finite element method. (English summary) **2004h:65112**
Kirschner, István (*with* Mészáros, Cs.; Bálint, Ágnes; Gottschalk, K.; Farkas, István) Surface changes of temperature and matter due to coupled transport processes through porous media. (English summary) **2004m:80001**
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Kwon, YongHoon *see* **Ahn, Jaemin et al., 2004j:65217**
Lapin, A. V. (*with* Lapin, S. A.) Identification of nonlinear coefficient in a transport equation. (English summary) **2004i:93040**
Lapin, S. A. *see* **Lapin, A. V., 2004i:93040**
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Lee, Yoon-ha *see* **Glimm, James et al., 2004a:62071**
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Leto, J. *see* **Vajravelu, K. et al., 2004a:76124**
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Liang, Dong *see* **Wang, Hong[9] et al., 2004a:76091**
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Lowe, Christopher P. (*with* Succi, Sauro) Go-with-the-flow lattice Boltzmann methods for tracer dynamics. (English summary) **2004g:76102**
Lu, Hao[1] *see* **Chen, Zhangxin et al., 2004a:86007**
Lu, Qi Shao *see* **Yang, Zuo Dong, 2004a:35136**
Luo, Zhen Dong (*with* Xie, Zheng Hui; Zhu, Jiang[3]; Zeng, Qing Cun) Mixed finite element method and numerical simulation for the unsaturated soil water flow problem. (English summary) **2004c:65113**
Luo, Zhong Xuan (*with* Li, Fengzhi; Liu, Ying Xi; Li, Yi) Effect of the environmental atmosphere on heat, water and gas transfer within hygroscopic fabrics. (English summary)
Lyaghfouri, Abdeslem *see* **Challal, Samia, 2004d:35255**
Lyons, Stephen L. *see* **Wang, Hong[9] et al., 2004a:76091** *and* **Chen, Zhangxin et al., 2004a:86007**
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Majdalani, J. (*with* Zhou, C.) Moderate-to-large injection and suction driven channel flows with expanding or contracting walls. (English summary) **2004b:76057**
Makhanov, Stanislav S. (*with* Semenov, Andrei Yu.) Six numerical schemes for parabolic initial boundary value problems with a priori bounded solution. (English summary) **2004i:65086**
Maliska, Clovis R. *see* **Marcondes, Francisco et al.**
Malyasov, S. Yu. *see* **Chen, Zhangxin et al., 2004a:86007**
Mamou, M. *see* **Bourich, M. et al.**
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Marcondes, Francisco (*with* Zambaldi, Mário C.; Maliska, Clovis R.) Inexact Newton methods applied to two-phase flows in porous media using unstructured Voronoi meshes. (English summary)
Marcus, Eduardo Adrian Santillan (*with* Tarzia, Domingo Alberto) Exact solutions for phase change processes in humid porous half spaces. (English and Spanish summaries) **2004c:80010**
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Martin, Vincent *see* **Jaffré, Jérôme et al.,** (**2004e:65004**)
Marušić-Paloka, Eduard *see* **Bourgeat, Alain et al., 2004j:35230**
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— The diffusion velocity method: a deterministic way of moving the nodes for solving diffusion equations. (English summary) **2004a:76109**
Mathur, J. S. *see* **Nithiarasu, P. et al.**
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Mazo, A. B. Problems of modeling flows of an incompressible fluid in channels with permeable barriers. (Russian) **2004f:76033**
McCue, Scott W. (*with* King, John Robert; Riley, David S.) Extinction behaviour of contracting bubbles in porous media. (English summary) **2004d:76043**
Mészáros, Cs. *see* **Kirschner, István et al., 2004m:80001**
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Mikelić, Andro On the effective boundary conditions between different flow regions. (English summary) **2004g:76041**
— On an averaged model for the 2-fluid immiscible flow with surface tension in a thin cylindrical tube. (English summary) **2004g:76042**
— *see also* **Ferrín, Jose Luis, 2004d:76083** *and* **Clopeau, Thierry et al., 2004g:74019**
Mityushev, Vladimir *see* **Adler, Pierre M., 2004c:74073**
Mohan, Hari *see* **Kumar, Pardeep et al.**
Monakhov, V. N. *see* **Davydkin, I. B., 2004i:35319**
Monneau, Régis *see* **Bonnet, Alexis, 2004f:35192**
Morgan, Kenneth *see* **Nithiarasu, P. et al.**
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Nathan, S. *see* **Vajravelu, K. et al., 2004a:76124**
Nawalany, Marek *see* **Zijl, Wouter**
Neuman, Shlomo P. *see* **Guadagnini, Alberto, 2004c:76116**
Neyama, Atsushi *see* **Nasif, Hesham et al.,** (**2004h:00019**)
Nishihara, Kenji *see* **Marcati, Pierangelo, 2004c:35247**
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Nolen, Jim (*with* Xin, Jack) Reaction-diffusion front speeds in spatially-temporally periodic shear flows. (English summary) **2004j:35154**
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Ohlberger, Mario Adaptive mesh refinement for single and two phase flow problems in porous media. (English summary) (*see* **2004k:65005**)
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Ostromsky, Tzvetan (*with* Zlatev, Zahari) Flexible two-level parallel implementations of a large air pollution model. (English summary) (*see* **2004j:65007**)
Owhadi, Houman *see* **Ben Arous, Gérard, 2004a:35016**
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Paoli, Lætitia Asymptotic behavior of a two fluid flow in a thin domain: from Stokes equations to Buckley-Leverett equation and Reynolds law. (English summary) **2004j:35234**
Pareschi, Lorenzo *see* **Naldi, Giovanni et al., 2004i:65087**
Parrott, Kevin *see* **Dinčov, Duško et al.,** (**2004e:65004**)
Paşa, Gelu I. Estimations for the characteristic values of a Sturm-Liouville problem. (English summary) **2004b:34064**
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(Pereira, Felipe) *see* **Special Issue: Multi-scale science**

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Pericleous, Koulis *see* **Dinčov, Duško et al.**, (**2004e:65004**)
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Peszyńska, Małgorzata Advanced techniques and algorithms for reservoir simulation. III. Multiphysics coupling for two phase flow in degenerate conditions. (English summary) **2004b:76116**
Petzoldt, Martin *see* **Fuhrmann, Jürgen**, (**2004d:00011**)
Pop, Ioan^2 *see* **Rees, D. Andrew S. et al.**
de Putter, Sander *see* **Carr, Magda**, **2004a:76122**
Pyatnitskii, Andrei L. *see* **Bourgeat, Alain et al.**, **2004b:35018**
Qin, Guan *see* **Wang, Hong^9 et al.**, **2004a:76091**
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— *see also* **Bofill, F.**, **2004d:74056**
Radkevich, E. V. *see* **Wilmański, Krzysztof**, **2004g:74021**
Ragusa, Alfio *see* **Maugeri, M. et al.**
Rajagopal, Kumbakonam R. (*with* Tao, Luoyi) Modeling of the microwave drying process of aqueous dielectrics. (English summary) **2004b:74004**
Ravazzoli, Claudia L. *see* **Carcione, José M. et al.**
Ray, Michael B. *see* **Chen, Zhangxin et al.**, **2004a:86007**
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Reyes, Guillermo (*with* Sánchez, Ariel) Disappearance of interfaces for the porous medium equation with variable density and absorption. (English summary) **2004i:35186**
Riley, David S. *see* **McCue, Scott W. et al.**, **2004d:76043**
Rionero, S. (*with* Perrini, F.) On the nonlinear diffusion in half spaces with application to the porous media. (English and Italian summaries) **2004c:35226**
— *see also* **Flavin, James N.**, **2004c:76135** *and* **Capone, F.**, **2004j:76063**
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— (*with* Wheeler, Mary F.) Coupling locally conservative methods for single phase flow. (English summary) **2004a:76090**
— (*with* Wheeler, Mary F.) Discontinuous finite element methods for acoustic and elastic wave problems. (English summary) **2004m:65155**
Roberts, Jean E. *see* **Alboin, Clarisse et al.**, **2004a:76082** *and* **Jaffré, Jérôme et al.**, (**2004e:65004**)
Rodríguez-Ferran, Antonio (*with* Sarrate, Josep; Huerta, Antonio) Numerical modelling of void inclusions in porous media. (English summary) **2004j:76103**
Rojas, S. *see* **Guevara-Jordan, J. M.**
Rossi, Julio D. *see* **Cortázar, Carmen et al.**, **2004j:35144**
Russell, Thomas F. *see* **Naff, R. L. et al.**, **2004a:76088** *and* **Jarman, Kenneth D.**, **2004k:35245**
Rybalko, V. A. *see* **Pankratov, L. S.**, **2004d:35019**
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Salama, Abdelhay Azoz *see* **Hassanien, I. A. et al.**, **2004j:76064**
Sánchez, Ariel *see* **Reyes, Guillermo**, **2004i:35186**
Santos, Juan E. *see* **Carcione, José M. et al.**
Sarrate, Josep *see* **Rodríguez-Ferran, Antonio et al.**, **2004j:76103**
Sastre, A. M. *see* **Benzal, G. et al.**
Scapolla, T. *see* **Comincioli, V. et al.**, (**2004h:65007**)
Schecter, Stephen *see* **Marchesin, D.**, **2004a:80013**
Schieweck, Friedhelm *see* **Layton, William J. et al.**, **2004c:76048**
Schweizer, Ben Homogenization of a free boundary problem: the no-slip condition. (English summary) **2004f:35016**
Sekerzh-Zen'kovich, S. Ya. *see* **Kravtsov, A. V.**, **2004m:76066**
Semenov, Andrei Yu. *see* **Makhanov, Stanislav S.**, **2004i:65086**
Semmoum, R. *see* **Vajravelu, K. et al.**, **2004a:76124**
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Serbina, L. I. On a problem for the linearized Boussinesq equation with a nonlocal Samarskiĭ condition. (Russian. Russian summary) **2004g:35132**
Serres, Christophe *see* **Alboin, Clarisse et al.**, **2004a:76082**
Severýn, Otto *see* **Vohralík, Martin et al.**, (**2004h:65005**) *and* **Maryška, Jiřiet al.**, (**2004j:00014**)
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— *see also* **Sunil et al.**
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Shcheglov, Alekseĭ Yur'evich A method for solving an inverse boundary value problem in sorption dynamics taking into account diffusion inside the particle. (Russian. Russian summary) **2004i:82061**
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Shulunova, A. A. *see* **Senashov, S. I.**
da Silva, Arlenes Silvino *see* **Coutinho, Alvaro L. G. A. et al.**
Singh, Gursharn Jit *see* **Kumar, Pardeep et al.**
Sivashinsky, Gregory I. *see* **Brailovsky, I.**, **2004i:80009**
Skakauskas, V. *see* **Čiegis, Raimondas et al.**, **2004e:80003**
Song, Huai Ling Error estimates in L^2-norm in finite volume methods for two-phase incompressible flow in porous media. (Chinese. English and Chinese summaries) **2004i:65090**
Stoyanov, Dimiter *see* **Dörfler, Willy et al.**, (**2004j:65007**)
Straughan, Brian *see* **Franchi, F.**, **2004j:35121**
Su, Ninghu (*with* Liu, Fa Wang; Anh, V. V.) Simulating seawater intrusion in aquifers using the modified Fokker-Planck equation and Boussinesq equation subject to phase-modulated tidal waves. (English summary)
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Suboč, Olga *see* **Čiegis, Raimondas et al.**, **2004e:80003**
Succi, Sauro *see* **Lowe, Christopher P.**, **2004g:76102**
Suchomel, Brian *see* **Chen-Charpentier, Benito M. et al.**, **2004b:86011**
Suciu, Nicolae *see* **Vamoş, Călin et al.**, **2004h:65010**
Sun, Jun Hong Finite element methods with moving mesh for contamination by incompressible nuclear waste in porous media. (Chinese. English and Chinese summaries) **2004b:76098**
— Time stepping along characteristics for a Galerkin approximation of miscible displacement problems with point sources and sinks. (Chinese. English and Chinese summaries) **2004d:65104**
— Characteristic finite element methods with moving mesh for the problem of contamination by compressible nuclear waste in porous media. (Chinese. English and Chinese summaries) **2004k:65160**
Sun, Tong *see* **Chen, Zhangxin et al.**, **2004a:86007**
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— *see also* **Sharma, R. C. et al.**, **2004e:76062**
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Sweby, Peter K. *see* **Hudson, Justin**, **2004j:76110**
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"Parametric dependence of exponents and eigenvalues in focusing porous media flows" Erratum: "Parametric dependence of exponents and eigenvalues in focusing porous media flows" [European J. Appl. Math. **14** (2003), no. 4, 485–512] by D. G. Aronson, J. B. van den Burg and J. Hulshof.

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76T30 Three or more component flows

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76U05 Rotating fluids

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Gilbert, Andrew D. *see* **Ponty, Y. et al., 2004i:76100**

González-Vida, José M. *see* **Castro-Díaz, Manuel Jesús et al., 2004m:76109**

Gottwald, Georg A. *see* **Frank, Jason et al., (2004d:65005)**

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Grimshaw, Roger H. J. *see* **Reznik, G. M., 2004c:76024**

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Hu, H. H. *see* **Joseph, Daniel D. et al., 2004i:76008**

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Iacono, Roberto On the existence of Arnold-stable barotropic flows on a rotating sphere. (English summary) **2004i:76109**

Imberger, Jörg *see* **Stocker, Roman, 2004e:86011**

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Kiessling, Michael K.-H. The "Jeans swindle": a true story—mathematically speaking. (English summary) **2004i:83161**

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— (*with* Berson, Dimitry; Khvoles, R.) Non-circular baroclinic beta-plane modons: constructing stationary solutions. (English summary) **2004i:76039**

Kleeorin, Nathan *see* **Rädler, Karl-Heinz et al., 2004e:76119**

Kloeden, Peter E. *see* **Duan, Jinqiao et al., 2004b:76066**

Kloosterziel, Rudolf C. (*with* Carnevale, George F.) Closed-form linear stability conditions for rotating Rayleigh-Bénard convection with rigid stress-free upper and lower boundaries. (English summary) **2004h:76083**

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— Initial-boundary value problem for an equation of internal gravity waves in a 3-D multiply connected domain with Dirichlet boundary condition. (English summary) **2004g:76032**

Kumar, Bhaskar *see* **Mittal, Sanjay**

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Li, Na *see* **Liu, Yong-ming, 2004e:76063**

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Lott, François Large-scale flow response to short gravity waves breaking in a rotating shear flow. (English summary) **2004m:86009**
Maas, Leo R. M. On the amphidromic structure of inertial waves in a rectangular parallelepiped. (English summary) **2004m:76026**
— *see also* **Manders, Astrid M. M. et al., 2004i:76029**
Macías Sánchez, Jorge *see* **Castro-Díaz, Manuel Jesús et al., 2004m:76109**
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Manders, Astrid M. M. (*with* Duistermaat, J. J.; Maas, Leo R. M.) Wave attractors in a smooth convex enclosed geometry. (English summary) **2004i:76029**
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Marqués, Francisco (*with* Gelfgat, Alexander Yu.; Lopez, Juan M.) Tangent double Hopf bifurcation in a differentially rotating cylinder flow. (English summary) **2004h:76086**
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Matsuda, Yoshihisa *see* **Kitamura, Yuji**
Mittal, Sanjay (*with* Kumar, Bhaskar) Flow past a rotating cylinder. (English summary)
Mohan, Hari *see* **Kumar, Pardeep et al.**
Monahan, Adam Hugh *see* **Imkeller, Peter et al., 2004c:86021**
Mondal, Gour Chandra (*with* Kumar, Krishna) The effect of the Coriolis force on Faraday waves. (English summary) **2004k:76047**
Morris, Jeffrey F. *see* **Timberlake, Brian D.**
Mussa, A. I. *see* **Jones, Christopher Andrew et al., 2004f:76062**
Nadeem, Sohail *see* **Hayat, Tasawar et al.**
Nagata, Wayne *see* **Lewis, Gregory M., 2004b:76063** *and* **2004m:76076**
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Nicolaenko, Basil *see* **Babin, Anatolii V. et al., 2004i:76045**
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Olbers, Dirk A gallery of simple models from climate physics. (English summary) **2004b:86023**
Ortega-Casanova, J. *see* **del Pino, C. et al., 2004e:76058**
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Pandolfo, Lionel *see* **Imkeller, Peter et al., 2004c:86021**
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Potylitsin, P. G. (*with* Peltier, W. R.) On the nonlinear evolution of columnar vortices in a rotating environment. (English summary) **2004h:76039**
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Proctor, Michael R. E. *see* **Ogilvie, Gordon I., 2004h:76008**
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Radwan, Ahmed E. Variable streams self-gravitating instability of radiating rotating gas cloud. (English summary) **2004i:76112**
Raspo, Isabelle *see* **Serre, Eric et al., 2004c:76101**
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Rodrigo, José Luis The vortex patch problem for the surface quasi-geostrophic equation. (English summary) **2004m:76040**
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Rodríguez, Rodolfo *see* **Cascón, J. M. et al., 2004j:86001**
Rogachevskii, Igor *see* **Rädler, Karl-Heinz et al., 2004e:76119**
Rossi, Maurice *see* **Yecko, Philip**
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Saltanov, N. V. (*with* Saltanov, V. N.) To magnetohydrodynamics of rotating nonhomogeneous fluid in stationary case. (English summary) **2004a:76138**
— (*with* Saltanov, V. N.) An analogue of the Gromeka transform in the magneto-hydrodynamics of a rotating nonhomogeneous fluid. (Russian. English, Russian and Ukrainian summaries) **2004j:76171**
Saltanov, V. N. *see* **Saltanov, N. V., 2004a:76138** *and* **2004j:76171**
Samelson, R. M. (*with* Temam, Roger; Wang, Cheng[4]; Wang, Shou Hong) Surface pressure Poisson equation formulation of the primitive equations: numerical schemes. (English summary) **2004g:65111**
Satyamurty, Prakki *see* **Vempaty, Somaraju, 2004c:76155**
Schmalfuss, Björn *see* **Duan, Jinqiao et al., 2004b:76066** *and* **2004e:86004**
Sellier, A. *see* **Ueda, Yoshiaki et al., 2004i:76062**
Semenova, I. P. (*with* Slezkin, L. N.) Dynamically equilibrium shape of intrusive vortex formations in the ocean. (Russian. Russian summary) **2004k:86005**
Serre, Eric (*with* Raspo, Isabelle; Bontoux, Patrick) High-order accurate spectral approximations for Navier-Stokes problems. (English summary) **2004c:76101**
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Sewell, M. J. Some applications of transformation theory in mechanics. **2004e:37101**
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Sharma, R. C. *see* **Sunil et al.**
She, Zhen-Su *see* **Baroud, Charles N. et al.**
Shen, Amy Q. Granular finger formation in a rotating cylinder. (English summary) **2004e:76047**
Shepherd, Theodore G. *see* **Wirosoetisno, D. et al., 2004i:76035**
Shimizu, Hisayoshi *see* **Chulliat, Arnaud et al., 2004i:76194** *and* **Loper, David E. et al., 2004i:76198**
Shukla, Padma Kant (*with* Stenflo, Lennart) Generation of zonal flows by Rossby waves. (English summary) **2004c:76032**
Shutts, Glenn Inertia-gravity wave and neutral Eady wave trains forced by directionally sheared flow over isolated hills. (English summary) **2004c:86023**
Siddiqui, A. M. *see* **Hayat, Tasawar et al.**
Siddiqui, Abu Zar A. *see* **Anwar Kamal, Muhammad, 2004k:76006**
Simon, Jacques *see* **Bresch, Didier, 2004b:35266**
Simonnet, Eric (*with* Tatchim Medjo, T.; Temam, Roger) Barotropic -baroclinic formulation of the primitive equations of the ocean. (English summary) **2004c:86010**
Singh, Gursharn Jit *see* **Kumar, Pardeep et al.**
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Siso-Nadal, F. (*with* Davidson, P. A.; Graham, W. R.) Evolution of a vortex in a rotating conducting fluid. (English summary) **2004j:76173**
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Skiba, Yu. N. Instability of the Rossby-Haurwitz wave in the invariant sets of perturbations. (English summary) **2004j:76072**
Slezkin, L. N. *see* **Semenova, I. P., 2004k:86005**
Smith, Leslie M. *see* **Lee, Youngsuk, 2004d:76050**
Soward, Andrew M. *see* **Ponty, Y. et al., 2004i:76100**
Stanescu, Dan *see* **Abarbanel, S. et al., 2004j:76114**
Stenflo, Lennart *see* **Shukla, Padma Kant, 2004c:76032**
Stocker, Roman (*with* Imberger, Jörg) Energy partitioning and horizontal dispersion in a stratified rotating lake. (English summary) **2004e:86011**
Storey, Brian D. Simulation of two-dimensional turbulent flows in a rotating annulus. (English summary)
Straub, David N. Instability of 2D flows to hydrostatic 3D perturbations. (English summary) **2004c:76066**
Sujatha, K. S. (*with* Webster, M. F.) Modelling three-dimensional rotating flows in cylindrical-shaped vessels. (English summary)
Sunil (*with* Bharti, Pavan Kumar; Sharma, R. C.) On Bénard convection in a porous medium in the presence of throughflow and rotation in hydromagnetics. (English summary)
Sutyrin, G. G. *see* **Kizner, Ziv et al., 2004e:86008**
Swaters, Gordon E. Baroclinic characteristics of frictionally destabilized abyssal overflows. (English summary) **2004h:86005**
Swinney, Harry L. *see* **Baroud, Charles N. et al.**
Sy, Mamadou *see* **Bresch, Didier, 2004c:76139**
Tatchim Medjo, T. *see* **Simonnet, Eric et al., 2004c:86010**
Temam, Roger (*with* Tribbia, Joseph) Open boundary conditions for the primitive and Boussinesq equations. (English summary) **2004g:76038**
— *see also* **Simonnet, Eric et al., 2004c:86010**; **Samelson, R. M. et al., 2004g:65111** *and* **Wirosoetisno, D. et al., 2004i:76035**
Thompson, Mark *see* **Cárdenas, José W., 2004e:86014**
Thorpe, S. A. A note on standing internal inertial gravity waves of finite amplitude. (English summary) **2004b:76039**
Timberlake, Brian D. (*with* Morris, Jeffrey F.) Film depth and concentration banding in free-surface Couette flow of a suspension. (English summary)
Torres, C. R. (*with* Castillo, José E.) Stratified rotating flow over complex terrain. (English summary) **2004k:86006**
Tribbia, Joseph *see* **Temam, Roger, 2004g:76038**
Tuliszka-Sznitko, Ewa *see* **Serre, Eric et al., 2004k:76060**
Ueda, Yoshiaki (*with* Sellier, A.; Kida, Teruhiko; Nakanishi, Masato) On the low-Reynolds-number flow about two rotating circular cylinders. (English summary) **2004i:76062**
Ungarish, Marius *see* **Flor, Jan Bert et al.**
Varlamov, Vladimir V. (*with* Liu, Yue[1]) Cauchy problem for the Ostrovsky equation. (English summary) **2004j:35235**
Vázquez-Cendón, María Elena *see* **Castro-Díaz, Manuel Jesús et al., 2004m:76109**
Vempaty, Somaraju (*with* Satyamurty, Prakki) Hydromagnetic free shear layers in rotating flows with magnetic field perpendicular to rotation vector and shear layers. (English summary) **2004c:76155**

Venkatraman, P. *see* **Narasimha Charyulu, V.**
Viúdez, Álvaro A new interpretation of the beta term in the vorticity equation. (English summary) **2004e:86018**
— (*with* Dritschel, David G.) Vertical velocity in mesoscale geophysical flows. (English summary) **2004i:86012**
von Wahl, Wolf *see* **Xu, Lanxi et al., 2004c:76060**
Wang, Cheng[4] *see* **Samelson, R. M. et al., 2004g:65111**
Wang, Jing[10] *see* **Joseph, Daniel D. et al., 2004i:76008**
Wang, Shou Hong *see* **Samelson, R. M. et al., 2004g:65111**
Wang, Yongqi (*with* Hayat, Tasawar) Hydromagnetic rotating flow of a fourth-order fluid past a porous plate. (English summary) **2004k:76132**
Watanabe, Jiro On incompressible viscous fluid flows with slip boundary conditions. (English summary) **2004j:76039**
Weber, Jan Erik *see* **Høydalsvik, Frode**
Webster, M. F. *see* **Sujatha, K. S.**
Weidman, Patrick D. *see* **Davis, Anthony M. J. et al., 2004i:76064**
Wirosoetisno, D. (*with* Shepherd, Theodore G.; Temam, Roger) Free gravity waves and balanced dynamics. (English summary) **2004i:76035**
Worland, S. J. *see* **Jones, Christopher Andrew et al., 2004f:76062**
Wu, Jiahong The 2D dissipative quasi-geostrophic equation. (English summary) **2004a:35177**
Xu, Lanxi (*with* Kaiser, Ralf; von Wahl, Wolf) Global stability in the rotating Bénard system with Couette flow, the case $Pr < 1$. (English summary) **2004c:76060**
Xu, Ming Yu *see* **Qi, Hai Tao**
Yang, B. H. *see* **Joseph, Daniel D. et al., 2004i:76008**
Yecko, Philip (*with* Rossi, Maurice) Transient growth and instability in rotating boundary layers. (English summary)
Yoshikawa, Yutaka (*with* Akitomo, Kazunori) Transverse roll convection in horizontal plane Couette flow. (English summary) **2004i:76102**
Zaks, Mikhail A. *see* **Busse, Friedrich H. et al., 2004m:76142**
Zeytounian, Radyadour Kh. On the foundations of the Boussinesq approximation applicable to atmospheric motions. **2004j:76028**
Zhang, Keke (*with* Liao, Xinhao; Li, Ligang) Differential rotation driven by precession. (English summary) **2004k:86013**
— *see also* **Zhang, Pu, 2004m:76059**
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Zhao, Chun Shan Initial boundary value problem for the evolution system of MHD type describing geophysical flow in three-dimensional domains. (English summary) **2004c:76037**

76V05 Reaction effects in flows [see also 80A32]

Agouzal, Abdellatif (*with* Boujena, S.; Ciuperca, I.; Vol′pert, Vit. A.) Stability of reaction fronts in thin domains. (English summary) **2004k:76126**
Bdzil, John B. *see* **Short, Mark, 2004h:76161**
de Bortoli, A. L. *see* **Zavaleta C, A. U. et al., 2004k:76127**
Boujena, S. *see* **Agouzal, Abdellatif et al., 2004k:76126**
Bourne, N. K. (*with* Milne, A. M.) The temperature of a shock-collapsed cavity. (English summary) **2004d:76108**
Chen, Gui-Qiang (*with* Hoff, David; Trivisa, Konstantina) On the Navier-Stokes equations for exothermically reacting compressible fluids. (English summary) **2004i:76191**
Ciuperca, I. *see* **Agouzal, Abdellatif et al., 2004k:76126**
Clavin, Paul *see* **Daou, Rémi, 2004i:76192**
Conforto, Fiammetta (*with* Monaco, Roberto; Schürrer, F.; Ziegler, I.) Steady detonation waves via the Boltzmann equation for a reacting mixture. (English summary) **2004e:76113**
Constantin, Peter (*with* Kiselev, Alexander; Ryzhik, Leonid) Fronts in reactive convection: bounds, stability, and instability. (English summary) **2004g:76125**
— *see also* **Vladimirova, Natalia et al., 2004g:76126**
Daou, Rémi (*with* Clavin, Paul) Instability threshold of gaseous detonations. (English summary) **2004i:76192**
Dumont, T. (*with* Génieys, Stéphane; Massot, Marc; Vol′pert, Vit. A.) Interaction of thermal explosion and natural convection: critical conditions and new oscillating regimes. (English summary) **2004a:76133**
Gasser, Ingenuin (*with* Struckmeier, Jens; Teleaga, I.) Modelling and simulation of fires in vehicle tunnels. (English summary)
Génieys, Stéphane *see* **Dumont, T. et al., 2004a:76133**
Hesaaraki, Mahmoud (*with* Razani, Abdolrahman) Detonative travelling waves for combustions. (English summary) **2004b:76153**
Hoff, David *see* **Chen, Gui-Qiang et al., 2004i:76191**
Johnson, R. G. (*with* McIntosh, A. C.; Yang, Xin-She) Modelling of fast flame-shock wave interactions with a variable piston speed. (English summary) **2004a:76134**
Kiselev, Alexander *see* **Constantin, Peter et al., 2004g:76125** *and* **Vladimirova, Natalia et al., 2004g:76126**
Lobão, Diomar Cesar (*with* Povitsky, Alex) Furnace geometry effects on plume dynamics in laser ablation for nanotube synthesis. (English summary)
Massot, Marc *see* **Dumont, T. et al., 2004a:76133**
McIntosh, A. C. *see* **Johnson, R. G. et al., 2004a:76134**
Milne, A. M. *see* **Bourne, N. K., 2004d:76108**
Monaco, Roberto *see* **Conforto, Fiammetta et al., 2004e:76113**
Nkonga, Boniface (*with* Reignier, Didier) Coupling Navier-Stokes and thermal equations through a reacting interface. (English summary) (*see* **2004e:65004**)
Povitsky, Alex *see* **Lobão, Diomar Cesar**
Razani, Abdolrahman *see* **Hesaaraki, Mahmoud, 2004b:76153**
Reignier, Didier *see* **Nkonga, Boniface, (2004e:65004)**
Rosner, Robert *see* **Vladimirova, Natalia, 2004f:76113**
Ruchayskiy, Oleg *see* **Vladimirova, Natalia et al., 2004g:76126**
Ryzhik, Leonid *see* **Constantin, Peter et al., 2004g:76125** *and* **Vladimirova, Natalia et al., 2004g:76126**
Schürrer, F. *see* **Conforto, Fiammetta et al., 2004e:76113**
Sharpe, Gary J. Linear stability of planar premixed flames: reactive Navier-Stokes equations with finite activation energy and arbitrary Lewis number. (English summary) **2004b:76154**
Short, Mark (*with* Bdzil, John B.) Propagation laws for steady curved detonations with chain-branching kinetics. **2004h:76161**
Struckmeier, Jens *see* **Gasser, Ingenuin et al.**
Teleaga, I. *see* **Gasser, Ingenuin et al.**
Thompson, Mark *see* **Zavaleta C, A. U. et al., 2004k:76127**
Trivisa, Konstantina *see* **Chen, Gui-Qiang et al., 2004i:76191**
Vakulenko, S. A. An analytical approach to convective reaction fronts. (English summary) **2004m:76172**
Vladimirova, Natalia (*with* Constantin, Peter; Kiselev, Alexander; Ruchayskiy, Oleg; Ryzhik, Leonid) Flame enhancement and quenching in fluid flows. (English summary) **2004g:76126**
— (*with* Rosner, Robert) Model flames in the Boussinesq limit: the effects of feedback. (English summary) **2004f:76113**
Vol′pert, Vit. A. *see* **Dumont, T. et al., 2004a:76133** *and* **Agouzal, Abdellatif et al., 2004k:76126**
Yan, Zhen Ya Painlevé analysis, auto-Bäcklund transformations and exact solutions for a simplified model for reacting mixtures. (English summary) **2004e:76114**
Yang, Xin-She *see* **Johnson, R. G. et al., 2004a:76134**
Zavaleta C, A. U. (*with* de Bortoli, A. L.; Thompson, Mark) Analysis and simulation for a system of chemical reaction equations with a vortex formulation. (English summary) **2004k:76127**
Ziegler, I. *see* **Conforto, Fiammetta et al., 2004e:76113**

Items with secondary classifications in 76V05

Abd El-Hameed, Faten S. M. *see* **Emara, Salah A. A., 2004g:76117**
Acker, Margret *see* **Eckert, Kerstin et al.**
Agouzal, Abdellatif (*with* Allali, Karam) Numerical analysis of reaction front propagation model under Boussinesq approximation. (English summary) **2004k:65166**
Akhmetov, R. G. Asymptotic behavior of the solution of the convective diffusion problem with volumetric chemical reaction. (Russian. Russian summary) **2004a:80017**
Akkerman, V'yacheslav (*with* Bychkov, Vitaliy V.) Turbulent flame and the Darrieus-Landau instability in a three-dimensional flow. (English summary) **2004i:80008**
Allali, Karam *see* **Agouzal, Abdellatif, 2004k:65166**
Andrianov, Nikolai (*with* Warnecke, Gerald G.) The Riemann problem for the Baer-Nunziato two-phase flow model. (English summary) **2004m:76165**
Araújo, A. L. (*with* Ferreira, José Augusto Mendes; de Oliveira, Paula; Patrício, F.; Rosa, P.) The use of splitting methods in the numerical simulation of reacting flows. (English summary)
Armendáriz, Javier (*with* Matalon, Moshe) Marangoni instability at a contaminated liquid-vapor interface of a burning thin film. (English summary) **2004g:76067**
Balakotaiah, Vemuri (*with* Chang, Hsueh-Chia) Hyperbolic homogenized models for thermal and solutal dispersion. (English summary) **2004e:76102**
Bartlett, Roscoe A. *see* **Salinger, Andrew G. et al., (2004j:49002)**
Bdzil, John B. *see* **Wescott, B. L. et al., 2004j:76100**
Bechtold, J. K. *see* **Matalon, Moshe et al., 2004i:80016**
Berthon, Christophe (*with* Reignier, Didier) An approximate nonlinear projection scheme for a combustion model. (English summary) **2004e:65090**
Biegler, Lorenz T. *see* **Salinger, Andrew G. et al., (2004j:49002)**
van Bloemen Waanders, Bart G. *see* **Salinger, Andrew G. et al., (2004j:49002)**
Bourlioux, Anne Numerical turbulent combustion: an asymptotic view via an idealized test-case. (English summary) (*see* **2004d:65006**)
— (*with* Layton, Anita T.; Minion, Michael L.) High-order multi-implicit spectral deferred correction methods for problems of reactive flow. (English summary) **2004f:76084**
Brailovsky, I. (*with* Sivashinsky, Gregory I.) On propagation limits in porous media combustion. (English summary) **2004i:80009**
Brenner, Howard *see* **Dorfman, Kevin D., 2004f:82075**
Bushe, W. Kendal (*with* Steiner, Helfried) Laminar flamelet decomposition for conditional source-term estimation. (English summary) **2004c:80013**
Bychkov, Vitaliy V. *see* **Akkerman, V'yacheslav, 2004i:80008**
Bykov, Viatcheslav (*with* Goldfarb, Igor; Gol′dshtein, Vladimir) On one asymptotical approach to pressure driven flames in porous media. **2004i:76176**
— (*with* Goldfarb, Igor; Gol′dshtein, Vladimir) Inertia effect on a structure of pressure-driven flames in porous media. (English summary) **2004m:80007**
Cao, Renfeng (*with* Pope, Stephen B.) Numerical integration of stochastic differential equations: weak second-order mid-point scheme for application in the composition PDF method. (English summary) **2004i:65008**
Chang, Hsueh-Chia *see* **Balakotaiah, Vemuri, 2004e:76102**
Charrier, Pierre (*with* Dubroca, Bruno) Asymptotic transport models for heat and mass transfer in reactive porous media. (English and French summaries) **2004g:76116**
— (*with* Dubroca, Bruno) Asymptotic transport models for heat and mass transfer in reactive porous media. (English summary) **2004m:76150**
Chen, Gui-Qiang (*with* Wagner, David H.) Global entropy solutions to exothermically reacting, compressible Euler equations. (English summary) **2004f:35143**
Chen-Charpentier, Benito M. *see* **Kojouharov, Hristo V., 2004m:76112**
Chinnayya, Ashwin (*with* Daniel, Eric; Saurel, Richard) Modelling detonation waves in heterogeneous energetic materials. (English summary) **2004m:76105**
Class, Andreas G. (*with* Matkowsky, Bernard J.; Klimenko, A. Yu.) A unified model of flames as gasdynamic discontinuities. (English summary) **2004i:80010**
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Clavin, Paul Self-sustained mean streaming motion in diamond patterns of a gaseous detonation. (English summary) **2004a:80010**
Colombo, Rinaldo M. (*with* Corli, Andrea) Phase transitions and Chapman-Jouguet combustions. (*see* **2004j:00016**)
Conca, Carlos (*with* Díaz Díaz, Jesús Ildefonso; Timofte, Claudia) Effective chemical processes in porous media. (English summary) **2004m:76153**

Conforto, Fiammetta (*with* Groppi, Maria; Monaco, Roberto; Spiga, G.) Steady detonation waves for gases undergoing dissociation/recombination and bimolecular reactions. (English summary) **2004j:80004**
Corli, Andrea *see* **Colombo, Rinaldo M.**, (**2004j:00016**)
Cui, Changrong *see* **Matalon, Moshe et al.**, **2004i:80016**
Daimon, Yu (*with* Matsuo, Akiko) Detailed features of one-dimensional detonations. (English summary) **2004b:80008**
Daniel, Eric *see* **Chinnayya, Ashwin et al.**, **2004m:76105**
Dawson, Clint (*with* Sun, Shuyu; Wheeler, Mary F.) Compatible algorithms for coupled flow and transport. (English summary) **2004m:76120**
Díaz Díaz, Jesús Ildefonso *see* **Conca, Carlos et al.**, **2004m:76153**
Don, Wai-Sun (*with* Gottlieb, David; Jung, Jae-Hun) A multidomain spectral method for supersonic reactive flows. (English summary) **2004m:76116**
Dorfman, Kevin D. (*with* Brenner, Howard) Generalized Taylor-Aris dispersion in spatially periodic microfluidic networks. Chemical reactions. (English summary) **2004f:82075**
Dubroca, Bruno *see* **Charrier, Pierre**, **2004g:76116** *and* **2004m:76150**
Ducomet, Bernard (*with* Zlotnik, A. A.) Stabilization for 1D radiative and reactive viscous gas flows. (English and French summaries) **2004k:76097**
Dvorjetski, A. *see* **Greenberg, J. B.**, **2004a:80018**
Eckert, Kerstin (*with* Acker, Margret; Shi, Ying) Chemical pattern formation driven by a neutralization reaction. I. Mechanism and basic features. (English summary)
Elaskar, Sergio A. *see* **Tamagno, José P. et al.**, **2004k:65149**
Emara, Salah A. A. (*with* Abd El-Hameed, Faten S. M.) Reactive flows in porous media. (English summary) **2004g:76117**
Fernandez, Juan (*with* Homsy, G. M.) Viscous fingering with chemical reaction: effect of in-situ production of surfactants. (English summary) **2004i:76080**
Ferreira, José Augusto Mendes *see* **Araújo, A. L. et al.**
Fursenko, R. *see* **Minaev, S. et al.**, **2004i:80017**
Gaponenko, Yu. A. (*with* Vol′pert, Vit. A.) Numerical simulations of convective Turing structures. (English summary) **2004i:35178**
Garcia, Ronaldo A. *see* **da Mota, Jesus C. et al.**, **2004c:76142**
Gasser, Ingenuin An asymptotic-induced one-dimensional model to describe fires in tunnels. II. The stationary problem. (English summary) **2004g:80008**
Gendugov, V. M. Detonation in gases. (Russian. Russian summary)
Goldfarb, Igor *see* **Bykov, Viatcheslav et al.**, **2004i:76176** *and* **2004m:80007**
Gol′dshtein, Vladimir *see* **Bykov, Viatcheslav et al.**, **2004i:76176** *and* **2004m:80007**
Gordon, Peter V. An upper bound of the bulk burning rate in porous media combustion. (English summary) **2004i:35180**
Gottlieb, David *see* **Don, Wai-Sun et al.**, **2004m:76116**
Grebogi, Celso *see* **Tél, Tamás et al.**, **2004k:76061**
Greenberg, J. B. (*with* Dvorjetski, A.) Opposed flow polydisperse spray diffusion flames: steady state and extinction analysis. (English summary) **2004a:80018**
— Propagation and extinction of an unsteady spherical spray flame front. (English summary) **2004a:80011**
Groppi, Maria (*with* Rossani, A.; Spiga, G.) Generalized quasi-classical Boltzmann equation for homogeneous reacting gases. (English summary)
— *see also* **Conforto, Fiammetta et al.**, **2004j:80004**
Hawa, T. *see* **Kapila, A. K. et al.**, **2004a:80012**
Henshaw, William D. (*with* Schwendeman, Donald W.) An adaptive numerical scheme for high-speed reactive flow on overlapping grids. (English summary) **2004i:76151**
Holstad, Astrid (*with* Lie, Ivar) Analysis of a finite volume scheme for reactive fluid flow problems. (English summary) (*see* **2004k:65005**)
Homsy, G. M. *see* **Fernandez, Juan**, **2004i:76080** *and* **Krechetnikov, R. V.**
Itle, G. C. *see* **Salinger, Andrew G. et al.**, (**2004j:49002**)
Ju, Yiguang *see* **Minaev, S. et al.**, **2004i:80017**
Jung, Jae-Hun *see* **Don, Wai-Sun et al.**, **2004m:76116**
Jupp, T. E. (*with* Woods, Andrew W.) Thermally driven reaction fronts in porous media. (English summary) **2004h:76144**
Kalliadasis, Serafim *see* **Kiss, I. Z. et al.**, **2004m:80009**
Kapila, A. K. (*with* Schwendeman, Donald W.; Quirk, J. J.; Hawa, T.) Mechanisms of detonation formation due to a temperature gradient. (English summary) **2004a:80012**
— (*with* Short, Mark) Nondiffusive hot spot in a confined, narrow domain. (English summary) **2004i:80019**
Karlin, V. (*with* Makhviladze, G.) Computational analysis of the steady states of the Sivashinsky model of hydrodynamic flame instability. (English summary) **2004b:80010**
Kiss, I. Z. (*with* Merkin, John H.; Scott, Stephen K.; Simon, Peter L.; Kalliadasis, Serafim; Neufeld, Z.) The structure of flame filaments in chaotic flows. (English summary) **2004m:80009**
— (*with* Merkin, John H.; Neufeld, Z.) Combustion initiation and extinction in a 2D chaotic flow. (English summary) **2004i:80014**
Klimenko, A. Yu. (*with* Pope, Stephen B.) The modeling of turbulent reactive flows based on multiple mapping conditioning. (English summary) **2004d:76058**
— *see also* **Class, Andreas G. et al.**, **2004i:80010** *and* **2004i:80011**
Klingenberg, Christian *see* **Lu, Yun-Guang**, **2004c:35142**
Kojouharov, Hristo V. (*with* Chen-Charpentier, Benito M.) Nonstandard Eulerian-Lagrangian methods for multi-dimensional reactive transport problems. (English summary) **2004m:76112**
Kraft, Markus (*with* Wagner, Wolfgang[1]) Numerical study of a stochastic particle method for homogeneous gas-phase reactions. (English summary) **2004f:65006**
Krechetnikov, R. V. (*with* Homsy, G. M.) On physical mechanisms in chemical reaction-driven tip-streaming. (English summary)
Kuleshov, Andrei A. Mathematical models of forest fires. (Russian. English and Russian summaries) **2004c:80015**
Kurdyumov, Vadim N. (*with* Liñán, Amable) Structure of a flame front propagating against the flow near a cold wall. (English summary) **2004i:80015**
Kurganov, Alexander An accurate deterministic projection method for hyperbolic systems with stiff source term. (*see* **2004j:00016**)
Law, Chung K. *see* **Minaev, S. et al.**, **2004i:80017**
Layton, Anita T. (*with* Minion, Michael L.) Conservative multi-implicit spectral deferred correction methods for reacting gas dynamics. (English summary) **2004k:76089**
— *see also* **Bourlioux, Anne et al.**, **2004f:76084**
Lee, John H. S. *see* **Ng, Hoi Dick**, **2004h:80014**
Li, Jiequan (*with* Zhang, Peng[1]) The transition from Zeldovich-von Neumann-Doring to Chapman-Jouguet theories for a nonconvex scalar combustion model. (English summary) **2004c:35260**
Lie, Ivar *see* **Holstad, Astrid**, (**2004k:65005**)
Liñán, Amable *see* **Kurdyumov, Vadim N.**, **2004i:80015**
Lu, Yun-Guang (*with* Klingenberg, Christian) A mixed type system of three equations modelling reacting flows. (English summary) **2004e:35142**
Mahalingam, Shankar *see* **Pakdee, Watit**, **2004i:80021**
Makhviladze, G. *see* **Karlin, V.**, **2004b:80010**
Mancinelli, R. (*with* Vergni, Davide; Vulpiani, Angelo) Front propagation in reactive systems with anomalous diffusion. (English summary) **2004j:35151**
Marchesin, D. (*with* Schecter, Stephen) Oxidation heat pulses in two-phase expansive flow in porous media. (English summary) **2004a:80013**
Maryška, Jiří *see* **Šembera, Jan et al.**, (**2004h:65005**)
Matalon, Moshe (*with* Cui, Changrong; Bechtold, J. K.) Hydrodynamic theory of premixed flames: effects of stoichiometry, variable transport coefficients and arbitrary reaction orders. (English summary) **2004i:80016**
— *see also* **Armendáriz, Javier**, **2004g:76067**
Matkowsky, Bernard J. *see* **Class, Andreas G. et al.**, **2004i:80010** *and* **2004i:80011**
Matsuo, Akiko *see* **Daimon, Yu**, **2004b:80008**
Merkin, John H. *see* **Kiss, I. Z. et al.**, **2004i:80014** *and* **2004m:80009**
Minaev, S. (*with* Fursenko, R.; Ju, Yiguang; Law, Chung K.) Stability analysis of near-limit stretched premixed flames. (English summary) **2004i:80017**
Minion, Michael L. *see* **Bourlioux, Anne et al.**, **2004f:76084** *and* **Layton, Anita T.**, **2004k:76089**
Moin, Parviz *see* **Wu, Xuesong et al.**, **2004k:80012**
Monaco, Roberto *see* **Conforto, Fiammetta et al.**, **2004j:80004**
Monkewitz, Peter A. *see* **Papas, Paul et al.**, **2004i:80018**
da Mota, Jesus C. (*with* de Souza, Aparecido Jesuino; Garcia, Ronaldo A.; Teixeira, Pedro W.) Oxidation fronts in a simplified model for two-phase flow in porous media. (English summary) **2004c:76142**
Motter, Adilson E. *see* **Tél, Tamás et al.**, **2004k:76061**
Nekhamkina, Olga (*with* Sheintuch, Moshe) Asymptotic solutions of stationary patterns in convection-reaction-diffusion systems. (English summary)
Neufeld, Z. *see* **Kiss, I. Z. et al.**, **2004i:80014** *and* **2004m:80009**
Ng, Hoi Dick (*with* Lee, John H. S.) Direct initiation of detonation with a multi-step reaction scheme. (English summary) **2004h:80014**
Nishikawa, Takashi *see* **Tél, Tamás et al.**, **2004k:76061**
Nolen, Jim (*with* Xin, Jack) Reaction-diffusion front speeds in spatially-temporally periodic shear flows. (English summary) **2004j:35154**
Novák, Josef [1] *see* **Šembera, Jan et al.**, (**2004h:65005**)
Ohlberger, Mario Higher order finite volume methods on selfadaptive grids for convection dominated reactive transport problems in porous media. (English summary)
Ohta, Takao *see* **Okuzono, Tohru**, **2004f:35098**
Okuzono, Tohru (*with* Ohta, Takao) Traveling waves in phase-separating reactive mixtures. (English summary) **2004f:35098**
de Oliveira, Paula *see* **Araújo, A. L. et al.**
Olmstead, W. E. *see* **Ritter, L. R. et al.**, **2004f:80008**
Osipov, A. I. (*with* Savchenkova, E. A.; Uvarov, A. V.) Stability of relaxation waves in a non-equilibrium gas. (Russian. Russian summary) **2004j:76079**
Pakdee, Watit (*with* Mahalingam, Shankar) An accurate method to implement boundary conditions for reacting flows based on characteristic wave analysis. (English summary) **2004i:80021**
Papas, Paul (*with* Rais, Redha M.; Monkewitz, Peter A.; Tomboulides, Ananias G.) Instabilities of diffusion flames near extinction. (English summary) **2004i:80018**
Patrício, F. *see* **Araújo, A. L. et al.**
Pawlowski, R. P. *see* **Salinger, Andrew G. et al.**, (**2004j:49002**)
Perminov, Valeri Numerical solution of Reynolds equations for forest fire spread. (English summary) (*see* **2004j:00012**)
Peters, Norbert *see* **Wu, Xuesong et al.**, **2004k:80012**
Pope, Stephen B. *see* **Klimenko, A. Yu.**, **2004d:76058** *and* **Cao, Renfeng**, **2004i:65008**
Quirk, J. J. *see* **Kapila, A. K. et al.**, **2004a:80012**
Rais, Redha M. *see* **Papas, Paul et al.**, **2004i:80018**
Ramos, J. I. Complex dynamics of planar liquid sheets induced by heat and mass transfer. (English summary) **2004h:76050**
Raw, Alan W. V. (*with* Woods, Andrew W.) On gravity-driven flow through a reacting porous rock. **2004h:76148**
Reignier, Didier *see* **Berthon, Christophe**, **2004e:65090**
Rios, Gustavo A. *see* **Tamagno, José P. et al.**, **2004k:65149**
Ritter, L. R. (*with* Olmstead, W. E.; Vol′pert, Vit. A.) Initiation of free-radical polymerization waves. (English summary) **2004f:80008**
Rosa, P. *see* **Araújo, A. L. et al.**
Rossani, A. *see* **Groppi, Maria et al.**
Salinger, Andrew G. (*with* Pawlowski, R. P.; Shadid, John N.; van Bloemen Waanders, Bart G.; Bartlett, Roscoe A.; Itle, G. C.; Biegler, Lorenz T.) Optimization of large-scale reacting flows using MPSalsa and sequential quadratic programming. (English summary) (*see* **2004j:49002**)
Saurel, Richard *see* **Chinnayya, Ashwin et al.**, **2004m:76105**
Savchenkova, E. A. *see* **Osipov, A. I. et al.**, **2004j:76079**
Schecter, Stephen *see* **Marchesin, D.**, **2004a:80013**
Schwendeman, Donald W. *see* **Kapila, A. K. et al.**, **2004a:80012** *and* **Henshaw, William D.**, **2004i:76151**
Scott, Stephen K. *see* **Kiss, I. Z. et al.**, **2004m:80009**
Šembera, Jan (*with* Maryška, Jiří; Novák, Josef [1]) FEM/FVM modelling of processes in a combustion engine. (English summary) (*see* **2004h:65005**)
Shadid, John N. *see* **Salinger, Andrew G. et al.**, (**2004j:49002**)
Sharpe, Gary J. (*with* Short, Mark) Detonation ignition from a temperature gradient for a two-step chain-branching kinetics model. (English summary) **2004h:80016**

Shchepakina, E. A. Safety conditions for the ignition of combustible fluids in a porous insulation material. (Russian. Russian summary) **2004c:80017**
Sheintuch, Moshe *see* **Nekhamkina, Olga**
Shi, Ying *see* **Eckert, Kerstin et al.**
Short, Mark *see* **Sharpe, Gary J., 2004h:80016** *and* **Kapila, A. K., 2004i:80019**
Simon, Peter L. *see* **Kiss, I. Z. et al., 2004m:80009**
Sivashinsky, Gregory I. *see* **Brailovsky, I., 2004i:80009**
Sjögreen, Björn (*with* Yee, H. C.) Low dissipative high-order numerical simulations of supersonic reactive flows. (English summary)
Souganidis, Panagiotis E. Recent developments in the theory of front propagation and its applications. (English summary) **2004h:35117**
de Souza, Aparecido Jesuino *see* **da Mota, Jesus C. et al., 2004c:76142**
Spiga, G. *see* **Conforto, Fiammetta et al., 2004j:80004** *and* **Groppi, Maria et al.**
Steiner, Helfried *see* **Bushe, W. Kendal, 2004c:80013**
Stewart, D. Scott *see* **Wescott, B. L. et al., 2004j:76100**
Sun, Shuyu *see* **Dawson, Clint et al., 2004m:76120**
Tamagno, José P. (*with* Elaskar, Sergio A.; Ríos, Gustavo A.) Numerical simulation of time-dependent reacting flows in pulse facilities. (English summary) **2004k:65149**
Teixeira, Pedro W. *see* **da Mota, Jesus C. et al., 2004c:76142**
Tél, Tamás (*with* Nishikawa, Takashi; Motter, Adilson E.; Grebogi, Celso; Toroczkai, Zoltán) Universality in active chaos. (English summary) **2004k:76061**
Timofte, Claudia *see* **Conca, Carlos et al., 2004m:76153**
Tomboulides, Ananias G. *see* **Papas, Paul et al., 2004i:80018**
Toroczkai, Zoltán *see* **Tél, Tamás et al., 2004k:76061**
Trivisa, Konstantina Global existence and asymptotic analysis of solutions to a model for the dynamic combustion of compressible fluids. (English summary) **2004i:76157**
Uvarov, A. V. *see* **Osipov, A. I. et al., 2004j:76079**
Vergni, Davide *see* **Mancinelli, R. et al., 2004j:35151**
Vol′pert, Vit. A. *see* **Ritter, L. R. et al., 2004f:80008** *and* **Gaponenko, Yu. A., 2004i:35178**
Vulpiani, Angelo *see* **Mancinelli, R. et al., 2004j:35151**
Wagner, David H. *see* **Chen, Gui-Qiang, 2004f:35143**
Wagner, Wolfgang[1] *see* **Kraft, Markus, 2004f:65006**
Wang, Dehua Global existence and dynamical properties of large solutions for combustion flows. (English summary)
Wang, Meng[1] *see* **Wu, Xuesong et al., 2004k:80012**
Warnecke, Gerald G. *see* **Andrianov, Nikolai, 2004m:76165**
Wescott, B. L. (*with* Stewart, D. Scott; Bdzil, John B.) On self-similarity of detonation diffraction. (English summary) **2004j:76100**
Wheeler, Mary F. *see* **Dawson, Clint et al., 2004m:76120**
Woods, Andrew W. *see* **Jupp, T. E., 2004h:76144** *and* **Raw, Alan W. V., 2004h:76148**
Wu, Xuesong (*with* Wang, Meng[1]; Moin, Parviz; Peters, Norbert) Combustion instability due to the nonlinear interaction between sound and flame. (English summary) **2004k:80012**
Xin, Jack *see* **Nolen, Jim, 2004j:35154**
Yee, H. C. *see* **Sjögreen, Björn**
Yoshimoto, Minoru Noise effects on the one-dimensional return map of the high flow rate chaos of the Belousov-Zhabotinsky reaction. (English summary)
Zhang, Peng[1] *see* **Li, Jiequan, 2004c:35260**
Zlotnik, A. A. *see* **Ducomet, Bernard, 2004k:76097**

76W05 Magnetohydrodynamics and electrohydrodynamics

Åkerstedt, Hans O. (*with* Löfgren, Hans B.) Free-surface magnetohydrodynamic flow with solidification. (English summary)
Alboussière, T. (*with* Henry, Daniel Pierre; Kaddeche, S.) Note on braking and stabilization laws for buoyant flows under a weak magnetic field. (English summary) **2004f:76114**
Alexakis, A. (*with* Pétrélis, F.; Morrison, P. J.; Doering, Charles R.) Bounds on dissipation in magnetohydrodynamic Couette and Hartmann shear flows. (English summary) **2004h:76162**
— *see also* **Pétrélis, F. et al., 2004h:76167**
Asghar, Saleem *see* **Hayat, Tasawar et al.**
Azumi, M. *see* **Ishii, Y. et al., 2004g:76129**
Bagewadi, C. S. *see* **Mallikarjunaswami, B. P., 2004m:76174**
Banerjee, Santo *see* **Saha, Papri et al., 2004b:76162**
Barmin, A. A. (*with* Chugaĭnova, A. P.) Interaction between a slow magnetohydrodynamic shock wave and a tangential discontinuity. (Russian. Russian summary) **2004b:76155**
Bayly, B. J. Asymptotic structure of fast dynamo eigenfunctions. (English summary) **2004f:76115**
Bekki, Naoaki Topological approach for modeling nonlinear magnetoconvection. (English summary) **2004d:76109**
Belmont, G. *see* **Sahraoui, F. et al., 2004c:76154**
Berger, Mitchell A. Measures of topological structure in magnetic fields. (English summary) **2004f:76116**
Bhattacharjee, Amitava *see* **Fitzpatrick, Richard et al., 2004i:76196**
Bhattacharyya, Ramit (*with* Janaki, M. S.) Variational approach to electron-magnetohydrodynamic equilibria. (English summary) **2004f:76117**
Bogoyavlenskij, Oleg I. New symmetries of the magnetohydrodynamics equilibrium equations. (English summary) **2004b:76156**
— Method of symmetry transforms for ideal MHD equilibrium equations. (English summary) **2004f:76118**
— Unsteady equipartition solutions to the viscous MHD equations. (English and French summaries) **2004h:76163**
— Unsteady equipartition MHD solutions. (English summary) **2004j:76164**
Boričić, Zoran (*with* Nikodijević, Dragiša; Milenković, Dragica; Stamenković, Živojin) Universal equations of unsteady MHD incompressible fluid flow with variable electroconductivity on heated moving plate. (English and Serbo-Croatian summaries)
Borisov, I. D. (*with* Yatsenko, T. Yu.) On small motions of a magnetizable viscous fluid. (Russian. English, Russian and Ukrainian summaries) **2004h:76164**
Bossavit, Alain Extrusion, contraction: their discretization via Whitney forms. (English summary) **2004i:76193**
Brambilla, Marco Iterative solution of the Grad-Shafranov equation in symmetric magnetic coordinates. (English summary)
Brandenburg, Axel *see* **Rädler, Karl-Heinz, 2004b:76161**
Brenner, Howard *see* **Yariv, Ehud, 2004i:76201** *and* **2004k:76133**
Breslau, J. A. (*with* Jardin, S. C.) Global extended magnetohydrodynamic studies of fast magnetic reconnection. (English summary) **2004c:76151**
Cap, Ferdinand F. The MHD theorems by Kaplan and Crocco and their consequences for MHD flow. (English summary) **2004g:76127**
Chandran, Pallath (*with* Sacheti, Nirmal C.) Transient motion of electrically conducting fluids of different Prandtl numbers: flow near a vertical boundary. (English summary)
Chugaĭnova, A. P. *see* **Barmin, A. A., 2004b:76155**
Chulliat, Arnaud (*with* Shimizu, Hisayoshi; Loper, David E.) Buoyancy-driven perturbations in a rapidly rotating, electrically conducting fluid. II. Dynamo action. (English summary) **2004i:76194**
— *see also* **Loper, David E. et al., 2004i:76198**
Craig, I. J. D. (*with* Heerikhuisen, J.; Watson, P. G.) Hall current effects in dynamic magnetic reconnection solutions. (English summary) **2004e:76115**
Davidson, P. A. *see* **Vladimirov, V. A. et al., 2004g:76133**; **Morris, S. J. S., 2004i:76200** *and* **Siso-Nadal, F. et al., 2004j:76173**
Dellar, Paul J. Dispersive shallow water magnetohydrodynamics. (English summary) **2004a:76135**
Demircan, A. *see* **Seehafer, N. et al., 2004d:76113**
Dmitruk, P. *see* **Milano, L. J. et al., 2004e:76117**
Dobler, Wolfgang (*with* Frik, P. G.; Stepanov, Rodion) Screw dynamo in a time-dependent pipe flow. (English summary) **2004f:76119**
Doering, Charles R. *see* **Alexakis, A. et al., 2004h:76162** *and* **Pétrélis, F. et al., 2004h:76167**
Durán, Mario (*with* Ferreira, Jorge; Rojas-Medar, Marko A.) Reproductive weak solutions of magneto-micropolar fluid equations in exterior domains. (English summary) **2004b:76157**
Erdélyi, Róbert *see* **Miteva, Rossitsa et al., 2004h:76165**
Ettwein, Frank (*with* Růžička, Michael) Existence of strong solutions for electrorheological fluids in two dimensions: steady Dirichlet problem. (English summary) **2004i:76195**
Ferreira, Jorge *see* **Durán, Mario et al., 2004b:76157**
Feudel, Fred (*with* Gellert, M.; Rüdiger, Sten; Witt, Annette; Seehafer, N.) Dynamo effect in a driven helical flow. (English summary)
— *see also* **Seehafer, N. et al., 2004d:76113**
Fitzpatrick, Richard (*with* Bhattacharjee, Amitava; Ma, Zhi Wei[2]; Linde, Timur) Wave driven magnetic reconnection in the Taylor problem. (English summary) **2004i:76196**
— Scaling of forced magnetic reconnection in the Hall-magnetohydrodynamic Taylor problem. (English summary)
Frik, P. G. *see* **Dobler, Wolfgang et al., 2004f:76119**
Gasser, Ingenuin (*with* Marcati, Pierangelo) A quasi-neutral limit in the hydrodynamic model for charged fluids. (English summary) **2004b:76158**
Gellert, M. *see* **Feudel, Fred et al.**
Gerbeth, Gunter *see* **Xu, Ming Tian et al., 2004m:76176**
Gibbon, J. D. (*with* Ohkitani, K.) Evidence for singularity formation in a class of stretched solutions of the equations for ideal MHD. (English summary) **2004g:76128**
Gilbert, Andrew D. Dynamo theory. (English summary) **2004j:76165**
Gomez, Thomas André *see* **Politano, Hélène et al., 2004h:76168**
Graham, W. R. *see* **Siso-Nadal, F. et al., 2004j:76173**
Grundland, A. M. (*with* Picard, Phillipe Lucien) On conditionally invariant solutions of magnetohydrodynamic equations. Multiple waves. (English summary) **2004m:76173**
Guermond, Jean Luc (*with* Léorat, J.; Nore, C.) A new finite element method for magnetodynamical problems: two-dimensional results. (English summary) **2004i:76197**
Günther, Uwe (*with* Stefani, Frank) Isospectrality of spherical MHD dynamo operators: pseudo-Hermiticity and a no-go theorem. (English summary) **2004c:76152**
Hayat, Tasawar (*with* Wang, Yongqi) Magnetohydrodynamic flow due to noncoaxial rotations of a porous disk and a fourth-grade fluid at infinity.
— (*with* Nadeem, Sohail; Siddiqui, A. M.; Asghar, Saleem) An oscillating hydromagnetic non-Newtonian flow in a rotating system. (English summary)
— (*with* Nadeem, Sohail; Asghar, Saleem) Hydromagnetic Couette flow of an Oldroyd-B fluid in a rotating system. (English summary)
— *see also* **Wang, Yongqi, 2004k:76132**
Heerikhuisen, J. *see* **Craig, I. J. D. et al., 2004e:76115**
Henry, Daniel Pierre *see* **Alboussière, T. et al., 2004f:76114**
Higuera, Francisco J. Flow rate and electric current emitted by a Taylor cone. (English summary) **2004j:76166**
Hornig, Gunnar Reconnection in magnetic and vorticity fields. (English summary) (*see* **2004d:76005**)
— *see also* **Mayer, Christoph, 2004g:76130**
Huba, J. D. (*with* Rudakov, L. I.) Hall magnetohydrodynamics of neutral layers. (English summary) **2004e:76116**
Hunt, R. E. *see* **Moffatt, H. Keith, 2004g:76131**
Ibrahim, R. S. Tanh-travelling wave solutions, truncated Painlevé expansion and reduction of Bullough-Dodd equation to a quadrature in magnetohydrodynamic equilibrium. (English summary) **2004b:76159**
Ilin, K. I. *see* **Vladimirov, V. A. et al., 2004g:76133**
Ishii, Y. (*with* Azumi, M.; Kishimoto, Yasuaki) Current point formation and magnetic reconnection process in nonlinearly destabilized double tearing modes. (English summary) **2004g:76129**
Ito, Kazufumi (*with* Li, Zhilin) Solving a nonlinear problem in magneto-rheological fluids using the immersed interface method. (English summary)
Janaki, M. S. *see* **Bhattacharyya, Ramit, 2004f:76117**
Jardin, S. C. *see* **Breslau, J. A., 2004c:76151**
Kaddeche, S. *see* **Alboussière, T. et al., 2004f:76114**
Kishimoto, Yasuaki *see* **Ishii, Y. et al., 2004g:76129**
Klapper, I. Long-time behaviour of magnetic field in two dimensions. (English summary) **2004d:76110**

Kleeorin, Nathan *see* **Rädler, Karl-Heinz et al., 2004e:76119** *and* **Rogachevskii, Igor, 2004k:76130**
Krishan, V. (*with* Nocera, L.) Relaxed states of Alfvéniv turbulence. (English summary) **2004j:76167**
Kumari, Mahesh (*with* Nath, G. Baikunth) Unsteady MHD film flow over a rotating infinite disk. (English summary)
Lange, Adrian Thermomagnetic convection of magnetic fluids in a cylindrical geometry. (English summary) **2004b:76160**
Laveder, D. (*with* Passot, T.; Sulem, Catherine; Sulem, P. L.; Wang, Desheng; Wang, Xiao Ping[1]) Wave collapse in dispersive magnetohydrodynamics: direct simulations and envelope modeling. (English summary) **2004j:76168**
Léorat, J. *see* **Guermond, Jean Luc et al., 2004i:76197**
Li, Zhilin *see* **Ito, Kazufumi**
Liao, Shi Jun On the analytic solution of magnetohydrodynamic flows of non-Newtonian fluids over a stretching sheet. (English summary) **2004j:76169**
Linde, Timur *see* **Fitzpatrick, Richard et al., 2004i:76196**
Löfgren, Hans B. *see* **Åkerstedt, Hans O.**
Loper, David E. (*with* Chulliat, Arnaud; Shimizu, Hisayoshi) Buoyancy-driven perturbations in a rapidly rotating, electrically conducting fluid. I. Flow and magnetic field. (English summary) **2004i:76198**
— *see also* **Chulliat, Arnaud et al., 2004i:76194**
Ma, Zhi Wei[2] *see* **Fitzpatrick, Richard et al., 2004i:76196**
Mallikarjunaswami, B. P. (*with* Bagewadi, C. S.) Unsteady electro-magneto-gasdynamic flows. (English summary) **2004m:76174**
Marcati, Pierangelo *see* **Gasser, Ingenuin, 2004b:76158**
Matthaeus, W. H. *see* **Milano, L. J. et al., 2004e:76117**
Mayer, Christoph (*with* Hornig, Gunnar) A third-order topological invariant for three magnetic fields. (English summary) **2004g:76130**
Meir, A. J. (*with* Schmidt, Paul G.) On electromagnetically and thermally driven liquid-metal flows. (English summary) **2004d:76111**
Mellor, C. (*with* Titov, V. S.; Priest, E. R.) Linear collapse of spatially linear, three-dimensional, potential null points. (English summary) **2004i:76199**
Milano, L. J. (*with* Matthaeus, W. H.; Dmitruk, P.) Generalized magnetic helicity, large-scale magnetic field, and dynamo saturation. (English summary) **2004e:76117**
Milenković, Dragica *see* **Boričić, Zoran et al.**
Miteva, Rossitsa (*with* Zhelyazkov, Ivan; Erdélyi, Róbert) Surface wave propagation in steady ideal Hall-magnetohydrodynamic magnetic slabs. (English summary) **2004h:76165**
Moffatt, H. Keith (*with* Hunt, R. E.) A model for magnetic reconnection. **2004g:76131**
— *see also* **Vladimirov, V. A. et al., 2004g:76133**
Morris, S. J. S. (*with* Davidson, P. A.) Hydromagnetic edge waves and instability in reduction cells. (English summary) **2004i:76200**
Morrison, P. J. *see* **Alexakis, A. et al., 2004h:76162** *and* **Pétrélis, F. et al., 2004h:76167**
Mottez, F. Exact nonlinear analytic Vlasov-Maxwell tangential equilibria with arbitrary density and temperature profiles. (English summary) **2004d:76112**
— Erratum: "Exact nonlinear analytic Vlasov-Maxwell tangential equilibria with arbitrary density and temperature profiles" [Phys. Plasmas **10** (2003), no. 6, 2501–2508].
Muzaev, Illarion Davidovich *see* **Sozanov, V. G. et al.**
Nadeem, Sohail *see* **Hayat, Tasawar et al.**
Nath, G. Baikunth *see* **Kumari, Mahesh**
Natyaganov, V. L. An electrocapillary-vortex model of a lightning ball. (Russian)
— A magnetohydrodynamic analogy and the seismoelectric effect. (Russian)
Nazarenko, S. V. (*with* West, Robert; Zaboronsky, Oleg) Fourier space intermittency of the small-scale turbulent dynamo. (English summary) **2004h:76166**
Nikodijević, Dragiša *see* **Boričić, Zoran et al.**
Nikulin, Viktor Vasil'evich A model of the nonlinear evolution of long-wave perturbations on an ideally conducting jet with current in a longitudinal magnetic field. Collision of magnetized jets. (Russian. Russian summary) **2004a:76136**
Nocera, L. *see* **Krishan, V., 2004j:76167**
Nore, C. *see* **Guermond, Jean Luc et al., 2004i:76197**
Normand, Christiane Ponomarenko dynamo with time-periodic flow. (English summary) **2004c:76153**
Núñez Jiménez, Manuel Length of magnetic field lines in turbulent plasmas. (English summary) **2004a:76137**
— Dynamic effects on the stretching of the magnetic field by a plasma flow. (English summary) **2004k:76128**
— Estimates on hyperdiffusive magnetohydrodynamics. (English summary) **2004f:76120**
— The long-time evolution of mean field magnetohydrodynamics. (English summary) **2004k:76129**
Ohkitani, K. *see* **Gibbon, J. D., 2004g:76128**
Olesen, P. Integrable version of Burgers equation in magnetohydrodynamics. (English summary) **2004g:76132**
Passot, T. *see* **Laveder, D. et al., 2004j:76168**
Pétrélis, F. (*with* Alexakis, A.; Doering, Charles R.; Morrison, P. J.) Bounds on dissipation in magnetohydrodynamic problems in plane shear geometry. (English summary) **2004h:76167**
— *see also* **Alexakis, A. et al., 2004h:76162**
Picard, Phillipe Lucien *see* **Grundland, A. M., 2004m:76173**
Podvigina, Olga M. *see* **Zheligovskiĭ, V. A., 2004c:76156**
Politano, Hélène (*with* Gomez, Thomas André; Pouquet, Annick) von Kármán-Howarth relationship for helical magnetohydrodynamic flows. (English summary) **2004h:76168**
Popa, Cătălin (*with* Sritharan, S. S.) Fluid-magnetic splitting of the magnetohydrodynamic equations. (English summary) **2004e:76118**
Pouquet, Annick *see* **Politano, Hélène et al., 2004h:76168**
Priest, E. R. *see* **Mellor, C. et al., 2004i:76199**
Rädler, Karl-Heinz (*with* Kleeorin, Nathan; Rogachevskii, Igor) The mean electromotive force for MHD turbulence: the case of a weak mean magnetic field and slow rotation. (English summary) **2004e:76119**
— (*with* Brandenburg, Axel) Contributions to the theory of a two-scale homogeneous dynamo experiment. (English summary) **2004b:76161**
Rezeau, L. *see* **Sahraoui, F. et al., 2004c:76154**
Ricca, Renzo L. Energy, helicity and crossing number relations for complex flows. (English summary) (*see* **2004d:76005**)
Rogachevskii, Igor (*with* Kleeorin, Nathan) Electromotive force and large-scale magnetic dynamo in a turbulent flow with a mean shear. (English summary) **2004k:76130**
— *see also* **Rädler, Karl-Heinz et al., 2004e:76119**
Rojas-Medar, Marko A. *see* **Durán, Mario et al., 2004b:76157**
Rollins, David K. *see* **Vajravelu, K.**
Rousset, Frédéric Large mixed Ekman-Hartmann boundary layers in magnetohydrodynamics. (English summary) **2004k:76131**
Roy Chowdhury, A. *see* **Saha, Papri et al., 2004b:76162**
Rudakov, L. I. *see* **Huba, J. D., 2004e:76116**
Rüdiger, Sten *see* **Feudel, Fred et al.**
Růžička, Michael *see* **Ettwein, Frank, 2004i:76195**
Sacheti, Nirmal C. *see* **Chandran, Pallath**
Saha, Papri (*with* Banerjee, Santo; Roy Chowdhury, A.) On the study of control and anti-control in magnetoconvection. (English summary) **2004b:76162**
Sahraoui, F. (*with* Belmont, G.; Rezeau, L.) Hamiltonian canonical formulation of Hall-magnetohydrodynamics: toward an application to weak turbulence theory. (English summary) **2004c:76154**
Saltanov, N. V. (*with* Saltanov, V. N.) To magnetohydrodynamics of rotating nonhomogeneous fluid in stationary case. (English summary) **2004a:76138**
— Generalized potentials, Riemann invariants, and simple waves in an analogue of the Chaplygin-Sedov hodograph method in magnetic gas dynamics. (Russian. English, Russian and Ukrainian summaries) **2004j:76170**
— (*with* Saltanov, V. N.) An analogue of the Gromeka transform in the magneto-hydrodynamics of a rotating nonhomogeneous fluid. (Russian. English, Russian and Ukrainian summaries) **2004j:76171**
Saltanov, V. N. *see* **Saltanov, N. V., 2004a:76138** *and* **2004j:76171**
Sarson, Graeme R. Kinematic dynamos driven by thermal-wind flows. (English summary) **2004e:76120**
Satyamurty, Prakki *see* **Vempaty, Somaraju, 2004c:76155**
Schief, Wolfgang Karl Hidden integrability in ideal magnetohydrodynamics: the Pohlmeyer-Lund-Regge model. (English summary) **2004b:76163**
Schmidt, Paul G. *see* **Meir, A. J., 2004d:76111**
Seehafer, N. (*with* Demircan, A.; Feudel, Fred) Fluid helicity and dynamo effect. (English summary) **2004d:76113**
— *see also* **Feudel, Fred et al.**
Sellier, A. Migration of an insulating particle under the action of uniform ambient electric and magnetic fields. II. Boundary formulation and ellipsoidal particles. (English summary) **2004j:76172**
Shamota, V. P. Flow of conducting liquid caused by a rotating magnetic field. (English summary) **2004a:76139**
— Interaction of liquid metal with a rotating magnetic field. (English summary) **2004a:76140**
Sharma, Pankaj Propagation of spherical MHD shock waves with varying energy in a non-uniform rotating stellar atmosphere in the presence of monochromatic radiation and gravitation. (English summary)
Shimizu, Hisayoshi *see* **Chulliat, Arnaud et al., 2004i:76194** *and* **Loper, David E. et al., 2004i:76198**
Shukla, Pradeep Kumar (*with* Tyagi, Shantanu Kumar) A note on Navier-Stokes equation for MHD flows. (English summary)
Shumakov, N. S. *see* **Sozanov, V. G. et al.**
Siddiqui, A. M. *see* **Hayat, Tasawar et al.**
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Sritharan, S. S. *see* **Popa, Cătălin, 2004e:76118**
Stamenković, Živojin *see* **Boričić, Zoran et al.**
Stefani, Frank *see* **Günther, Uwe, 2004c:76152** *and* **Xu, Ming Tian et al., 2004m:76176**
Stepanov, Rodion *see* **Dobler, Wolfgang et al., 2004f:76119**
Ströhmer, Gerhard About the equations of non-stationary magneto-hydrodynamics. (English summary) **2004h:76169**
Stupyalis, Lyudvikas The MHD equations in the case of low conductivity. **2004j:76174**
Sulem, Catherine *see* **Laveder, D. et al., 2004j:76168**
Sulem, P. L. *see* **Laveder, D. et al., 2004j:76168**
Tasso, H. (*with* Throumoulopoulos, G. N.) Cross-helicity and magnetized Trkal flows. (English summary) **2004m:76175**
Throumoulopoulos, G. N. *see* **Tasso, H., 2004m:76175**
Titov, V. S. *see* **Mellor, C. et al., 2004i:76199**
Trakhinin, Yu. L. A complete 2D stability analysis of fast MHD shocks in an ideal gas. (English summary) **2004b:76164**
Tyagi, Shantanu Kumar *see* **Shukla, Pradeep Kumar**
Vajravelu, K. (*with* Rollins, David K.) Hydromagnetic flow of a second grade fluid over a stretching sheet. (English summary)
Vempaty, Somaraju (*with* Satyamurty, Prakki) Hydromagnetic free shear layers in rotating flows with magnetic field perpendicular to rotation vector and shear layers. (English summary) **2004c:76155**
Vladimirov, V. A. (*with* Moffatt, H. Keith; Davidson, P. A.; Ilin, K. I.) On the stability of a rigid body in a magnetostatic equilibrium. (English summary) **2004g:76133**
Wang, Dehua Large solutions to the initial-boundary value problem for planar magnetohydrodynamics. (English summary) **2004f:76121**
Wang, Desheng *see* **Laveder, D. et al., 2004j:76168**
Wang, Xiao Ping[1] *see* **Laveder, D. et al., 2004j:76168**
Wang, Yongqi (*with* Hayat, Tasawar) Hydromagnetic rotating flow of a fourth-order fluid past a porous plate. (English summary) **2004k:76132**

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Watson, P. G. *see* **Craig, I. J. D. et al., 2004e:76115**
West, Robert *see* **Nazarenko, S. V. et al., 2004h:76166**
Witt, Annette *see* **Feudel, Fred et al.**
Wu, Jiahong Generalized MHD equations. (English summary) **2004g:76134**
— Regularity results for weak solutions of the 3D MHD equations. (English summary) **2004j:76175**
Xu, Ming Tian (*with* Stefani, Frank; Gerbeth, Gunter) The integral equation method for a steady kinematic dynamo problem. (English summary) **2004m:76176**
Yariv, Ehud (*with* Brenner, Howard) Near-contact electrophoretic motion of a sphere parallel to a planar wall. (English summary) **2004i:76201**
— (*with* Brenner, Howard) The electrophoretic mobility of a closely fitting sphere in a cylindrical pore. (English summary) **2004k:76133**
Yatsenko, T. Yu. *see* **Borisov, I. D., 2004h:76164**
Zaboronsky, Oleg *see* **Nazarenko, S. V. et al., 2004h:76166**
Zakaria, Kadry Nonlinear dynamics of magnetic fluids with a relative motion in the presence of an oblique magnetic field. (English summary) **2004h:76170**
Zakaria, M. Thermal boundary layer equation for a magnetohydrodynamic flow of a perfectly conducting fluid. (English summary) **2004h:76171**
— Problem in electromagnetic free convection flow of a micropolar fluid with relaxation time through a porous medium. (English summary) **2004m:76177**
Zheligovskiĭ, V. A. (*with* Podvigina, Olga M.) Generation of multiscale magnetic field by parity-invariant time-periodic flows. (English summary) **2004c:76156**
Zhelyazkov, Ivan *see* **Miteva, Rossitsa et al., 2004h:76165**

Items with secondary classifications in 76W05

AbdElazem, Nader Y. *see* **Abd El-Naby, M. A. et al., 2004c:76093** *and* **2004m:76107**
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Aburjania, G. (*with* Chargazia, Kh.) The propagation of the planetary-scale wave disturbances in the ionosphere. (English and Georgian summaries) **2004f:86005**
Ahmed, N. *see* **Ahmed, Shabbir**
Ahmed, Shabbir (*with* Ahmed, N.) Unsteady free convective MHD flow and heat transfer through a porous medium. (English summary)
Akiyama, Takahiro On the existence of L^p solutions of the magnetohydrodynamic equations in a bounded domain. (English summary) **2004f:35142**
Alekseev, G. V. Control problems for stationary equations of the magnetohydrodynamics of a viscous incompressible fluid. (Russian. Russian summary) **2004h:49039**
Ali, Giuseppe (*with* Hunter, John K.) Nonlinear surface waves on a tangential discontinuity in magnetohydrodynamics. (English summary) **2004f:35111**
Amrollahi, R. *see* **Dini, F. et al.**
Armbruster, Dieter *see* **Chossat, Pascal, 2004e:86021**
Ashraf, Ehsan Ellahi *see* **Mohyuddin, Muhammad R., 2004k:76116**
Barbu, Viorel (*with* Sritharan, S. S.) Feedback stabilization of the magneto-hydrodynamic system. (English summary) (*see* **2004i:47002**)
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Barghouthi, Imad A. *see* **Qatanani, Naji A., 2004d:76102**
Barleon, Leopold *see* **Burr, Ulrich et al.**
Barnes, Daniel C. Stability of a long field-reversed configuration: complete two-fluid theory. (English summary) **2004i:76113**
Belonozhko, D. F. (*with* Grigor′ev, A. I.) Nonlinear capillary-gravity waves on the charged surface of an ideal fluid. (Russian. Russian summary) **2004k:76020**
Benhadid, H. *see* **Kaddeche, S. et al., 2004j:76074**
Berk, H. L. *see* **Breizman, B. N. et al., 2004f:76122**
Bharti, Pavan Kumar *see* **Sunil et al.**
Biskamp, Dieter *see* **Müller, Wolf-Christian et al., 2004f:76077**
Bizarro, João P. S. *see* **Rodrigues, Paulo, 2004j:76178**
Blokhin, A. M. (*with* Trakhinin, Yu. L.) Stability of strong discontinuities in fluids and MHD. (English summary) **2004i:76117**
Bogoyavlenskii, Oleg I. Exact unsteady solutions to the Navier-Stokes and viscous MHD equations. (English summary) **2004d:76031**
Boozer, Allen H. *see* **Nührenberg, Carolin, 2004d:76117**
Borotto, Felix A. (*with* Chian, Abraham C.-L.; Hada, Tohru; Rempel, Erico L.) Chaos in driven Alfvén systems: boundary and interior crises. (English summary)
Børve, Steinar (*with* Omang, Marianne; Trulsen, Jan) SPH simulations of MHD shocks using a piecewise constant smoothing length profile. (English summary) (*see* **2004d:65005**)
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Bruno, Antonio (*with* Freidberg, J. P.; Hastie, R. J.) Resistive magnetohydrodynamic transport model for a reversed field pinch. I. The model. (English summary) **2004e:76122**
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Burr, Ulrich (*with* Barleon, Leopold; Jochmann, Paul; Tsinober, Arkady) Magnetohydrodynamic convection in a vertical slot with horizontal magnetic field. (English summary)
Castellanos, Antonio (*with* Pérez, A. T.; Chicón, R.) Chaotic electroconvection in a layer of dielectric liquid subjected to unipolar injection: maximal Lyapunov exponents. (English summary) **2004a:76049**
Chargazia, Kh. *see* **Aburjania, G., 2004f:86005**
Chian, Abraham C.-L. *see* **Borotto, Felix A. et al.**
Chiba, Fumihiro (*with* Takashi, Kako) Newmark's method and discrete energy applied to resistive MHD equation. (English summary) **2004f:65131**
Chicón, R. *see* **Castellanos, Antonio et al., 2004a:76049**
Chossat, Pascal (*with* Armbruster, Dieter) Dynamics of polar reversals in spherical dynamos. (English summary) **2004e:86021**
Choudhury, Rita (*with* Sarma, Hemendra) Steady MHD boundary layer flow of an elastico-viscous fluid past a flat plate. (English summary)
Davidson, P. A. (*with* Siso-Nadal, F.) On the structure of small-scale motion in the core of the earth. (English summary) **2004b:86030**
Dedner, Andreas (*with* Rohde, Christian; Wesenberg, Matthias) A MHD-simulation in solar physics. (English summary) (*see* **2004k:65005**)
— (*with* Rohde, Christian) FV-schemes for a scalar model problem of radiation magnetohydrodynamics. (English summary) (*see* **2004e:65004**)
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Dellar, Paul J. Common Hamiltonian structure of the shallow water equations with horizontal temperature gradients and magnetic fields. (English summary) **2004c:86005**
Del Zanna, L. *see* **Londrillo, P., 2004m:76113**
Dini, F. (*with* Khorasani, S.; Amrollahi, R.) Variational finite element method for axisymmetric magneto-hydrodynamic equilibrium. (English summary)
Dreyfuss, Pierre (*with* Hungerbühler, Norbert) Results on a Navier-Stokes system with applications to electrorheological fluid flow. (English summary)
Durán, Mario (*with* Ortega-Torres, E. E.; Rojas-Medar, Marko A.) Stationary solutions of magneto-micropolar fluid equations in exterior domains. (English summary) **2004c:35336**
Elbarbary, Elsayed M. E. M. *see* **Abd El-Naby, M. A. et al., 2004c:76093** *and* **2004m:76107**
El-Dib, Yusry O. Nonlinear electrorheological instability of two Rivlin-Ericksen elastico-viscous fluids. (English summary) **2004a:76061**
El Hakeem Abd El Naby, Abd (*with* El Misiery, A. E. M.; El Shamy, I. I.) Hydromagnetic flow of fluid with variable viscosity in a uniform tube with peristalsis. (English summary) **2004h:76183**
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El Shamy, I. I. *see* **El Hakeem Abd El Naby, Abd et al., 2004h:76183**
Ezzat, Magdy A. Free convection effects on extracellular fluid in the presence of a transverse magnetic field. (English summary) **2004m:76144**
Fedotov, Sergei (*with* Ivanov, Alexey; Zubarev, A. Yu.) Non-local mean field dynamo theory and magnetic fronts in galaxies. (English summary) **2004e:85003**
Freidberg, J. P. *see* **Bruno, Antonio et al., 2004e:76122** *and* **2004e:76123**
Freistühler, Heinrich (*with* Rohde, Christian) The bifurcation analysis of the MHD Rankine-Hugoniot equations for a perfect gas. (English summary) **2004k:76079**
Gailitis, Agris (*with* Lielausis, Olgerts; Platacis, Ernests; Gerbeth, Gunter; Stefani, Frank) Riga dynamo experiment and its theoretical background. (English summary)
Gallice, Gérard Positive and entropy stable Godunov-type schemes for gas dynamics and MHD equations in Lagrangian or Eulerian coordinates. (English summary) **2004e:65094**
Garabedian, Paul R. Computational mathematics and physics of fusion reactors. (English summary) **2004j:76177**
Gayatri *see* **Rathod, V. P.**
Gérard-Varet, David (*with* Grenier, Emmanuel) A zoology of boundary layers. (English and Spanish summaries) **2004m:76169**
Gerbeth, Gunter *see* **Shatrov, V. et al., 2004e:76066** *and* **Gailitis, Agris et al.**
Grappin, Roland *see* **Müller, Wolf-Christian et al., 2004f:76077**
Grenier, Emmanuel *see* **Gérard-Varet, David, 2004m:76169**
Grigor′ev, A. I. *see* **Belonozhko, D. F., 2004k:76020**
Griskey, M. C. (*with* Stenzel, R. L.; Urrutia, J. M.; Strohmaier, K. D.) Three-dimensional electron magnetohydrodynamic reconnection. II. Tilt and precession of a field-reversed configuration. (English summary) **2004d:76116**
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Gubarev, Yu. G. (*with* Nikulin, Viktor Vasil′evich) A criterion for the linear long-wave stability of steady magnetohydrodynamic jet flows of an ideal fluid. (Russian. Russian summary) **2004j:76073**
— Stability of steady shear jet flows of an ideal fluid with a free boundary in an azimuthal magnetic field under small long-wave perturbations. (Russian. Russian summary) **2004k:76053**
Guermond, Jean Luc (*with* Minev, Peter D.) Approximation of an MHD problem using Lagrange finite elements. (English summary) **2004k:65172**
— (*with* Minev, Peter D.) Mixed finite element approximation of an MHD problem involving conducting and insulating regions: the 3D case. (English summary) **2004h:65099**
Hada, Tohru *see* **Borotto, Felix A. et al.**
Hagstrom, Thomas *see* **Kreiss, Heinz-Otto et al., 2004f:35139**
Hameiri, Eliezer Dynamically accessible perturbations and magnetohydrodynamic stability. (English summary) **2004a:76059**
Hashem, Hoda A. *see* **Radwan, Ahmed E., 2004h:76093**
Hastie, R. J. *see* **Bruno, Antonio et al., 2004e:76122** *and* **2004e:76123**
Hatzikonstantinou, P. M. *see* **Tzirtzilakis, E. E. et al.**
Havârneanu, Teodor *see* **Barbu, Viorel et al., 2004b:93012**
Hawley, John F. Accretion disks: the magnetohydrodynamic powerhouse. (English summary) **2004j:85002**
Hayat, Tasawar Exact solutions of a dipolar fluid flow. (English summary)
He, Shu Hong (*with* Wang, Ping[4]) Long time behavior of flow in magnetic field within the earth. (English summary) **2004d:86020**
Henry, Daniel Pierre *see* **Kaddeche, S. et al., 2004j:76074**
Heyn, Martin F. *see* **Semenov, Vladimir S. et al., 2004j:76179**
Holm, Darryl D. Lagrangian averages, averaged Lagrangians, and the mean effects of fluctuations in fluid dynamics. (English summary) **2004a:76003**
Hornig, Gunnar The geometry of reconnection. (English summary) **2004g:76029**
Hungerbühler, Norbert *see* **Dreyfuss, Pierre**
Hunter, John K. *see* **Ali, Giuseppe, 2004f:35111** *and* **Thoo, John B., 2004i:35208**
Ilin, K. I. (*with* Trakhinin, Yu. L.; Vladimirov, V. A.) The stability of steady magnetohydrodynamic flows with current-vortex sheets. (English summary) **2004b:76067**
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Imomnazarov, Kholmatzhon Kh. Modified Darcy laws that take into account electromagnetic fields. (Russian)
Inoue, Hiroshi[2] (*with* Matsuura, Kei; Ôtani, Mitsuharu) Strong solutions of magneto-micropolar fluid equation. (English summary) **2004i:76054**
Ivanov, Alexey *see* **Fedotov, Sergei et al., 2004e:85003**
Ivanov, Ivan B. *see* **Semenov, Vladimir S. et al., 2004j:76179**
Jochmann, Paul *see* **Burr, Ulrich et al.**
Jones, Christopher Andrew (*with* Mussa, A. I.; Worland, S. J.) Magnetoconvection in a rapidly rotating sphere: the weak-field case. (English summary) **2004f:76062**
Kaddeche, S. (*with* Henry, Daniel Pierre; Benhadid, H.) Magnetic stabilization of the buoyant convection between infinite horizontal walls with a horizontal temperature gradient. (English summary) **2004j:76074**
Kafoussias, N. G. *see* **Tzirtzilakis, E. E. et al., 2004f:76127**
Kaiser, Ralf (*with* Uecker, Hannes) Relaxed plasma-vacuum states in cylinders. (English summary) **2004m:76180**
Kemm, Friedemann (*with* Lee, Yong-Joong; Munz, Claus-Dieter; Schneider, Rudolf[2]) Divergence cleaning in finite-volume computations for electromagnetic wave propagations. (English summary) (*see* **2004e:65004**)
— *see also* **Lee, Yong-Joong et al.**, (**2004j:00016**)
Khesin, Boris A. Topology bounds the energy. (English summary) **2004e:58028**
— Geometry of fluid motion. (English summary) **2004j:37164**
Khorasani, S. *see* **Dini, F. et al.**
Kinyanjui, M. *see* **Kwanza, J. K. et al.**
Knaepen, Bernard (*with* Moin, Parviz) Large-eddy simulation of conductive flows at low magnetic Reynolds number. (English summary) **2004m:76094**
Kozlov, A. N. Influence of a longitudinal magnetic field on the Hall effect in the plasma accelerator channel. (Russian. Russian summary) **2004i:76206**
Kreiss, Heinz-Otto (*with* Hagstrom, Thomas; Lorenz, Jens; Zingano, P. R.) Decay in time of incompressible flows. (English summary) **2004f:35139**
Kulikovskiĭ, Andreĭ Gennad′evich (*with* Pogorelov, Nikolai V.; Semenov, Andrei Yu.) ★ Mathematical aspects of numerical solution of hyperbolic systems. **2004e:65088**
Kuzanyan, K. *see* **Moss, David Leonard et al.**
Kuznetsov, Evgeniĭ Aleksandrovich[1] Connection between Euler hydrodynamics and charged fluid dynamics. (English summary) **2004i:35257**
Kwanza, J. K. (*with* Kinyanjui, M.; Uppal, S. M.) MHD Stokes free convection flow past an infinite vertical porous plate subjected to constant heat flux with ion-slip current and radiation absorption. (English summary)
Lavrova, Olga (*with* Matthies, Gunar; Mitkova, Teodora; Polevikov, Viktor; Tobiska, Lutz) Finite element methods for coupled problems in ferrohydrodynamics. (English summary)
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Li, Ligang *see* **Zhang, Keke et al., 2004k:86013**
Li, Shihua (*with* Tian, Yu Ping[1]) Global stabilization of a coupled dynamo system. (English summary) **2004b:34127**
Liao, Xinhao *see* **Zhang, Keke et al., 2004k:86013**
Lielausis, Olgerts *see* **Gailitis, Agris et al.**
Lin, R. K. *see* **Sheu, Tony W. H.**
Londrillo, P. (*with* Del Zanna, L.) On the divergence-free condition in Godunov-type schemes for ideal magnetohydrodynamics: the upwind constrained transport method. (English summary) **2004m:76113**
Lorenz, Jens *see* **Kreiss, Heinz-Otto et al., 2004f:35139**
Loukopoulos, V. C. (*with* Tzirtzilakis, E. E.) Biomagnetic channel flow in spatially varying magnetic field. (English summary)
MacCormack, Robert W. Numerical computation in magnetofluid dynamics. (English summary) (*see* **2004d:76003**)
Maiellaro, Michele On the principle of exchange of stabilities in the anisotropic magnetohydrodynamic Bénard problem. (English summary) **2004b:76068**
Makinde, O. D. Magneto-hydrodynamic stability of plane-Poiseuille flow using multideck asymptotic technique. (English summary) **2004a:76060**
Matsuura, Kei *see* **Inoue, Hiroshi[2] et al., 2004i:76054**
Matthies, Gunar *see* **Lavrova, Olga et al.**
Minev, Peter D. *see* **Guermond, Jean Luc, 2004h:65099** *and* **2004k:65172**
Mitkova, Teodora *see* **Lavrova, Olga et al.**
Moatimid, Galal M. Non-linear electrorheological instability of two streaming cylindrical fluids. (English summary) **2004j:76076**
Mohyuddin, Muhammad R. (*with* Ashraf, Ehsan Ellahi) Inverse solutions for a second-grade fluid for porous medium channel and Hall current effects. (English summary) **2004k:76116**
Moin, Parviz *see* **Knaepen, Bernard, 2004m:76094**
Moroz, Irene M. The Malkus-Robbins dynamo with a linear series motor. (English summary) **2004a:37121**
Moss, David Leonard (*with* Sokolov, D. D.; Kuzanyan, K.; Petrov, Aleksandr P.) Stellar dynamo waves: asymptotic configurations. (English summary)
Müller, Wolf-Christian (*with* Biskamp, Dieter; Grappin, Roland) Statistical anisotropy of magnetohydrodynamic turbulence. (English summary) **2004f:76077**
Munz, Claus-Dieter *see* **Kemm, Friedemann et al.**, (**2004e:65004**) *and* **Lee, Yong-Joong et al.**, (**2004j:00016**)
Mussa, A. I. *see* **Jones, Christopher Andrew et al., 2004f:76062**
Mutschke, G. *see* **Shatrov, V. et al., 2004e:76066**
Narasimha Charyulu, V. (*with* Venkatraman, P.) Non-Darcian MHD flow through a rotating porous duct. (English summary)
Naumov, N. D. Self-similar rotation of a toroidal plasma configuration. (Russian)
Nikulin, Viktor Vasil′evich *see* **Gubarev, Yu. G., 2004j:76073**
Nishiyama, Takahiro Magnetohydrodynamic approach to solvability of the three-dimensional stationary Euler equations. (English summary) **2004a:35174**
Nührenberg, Carolin (*with* Boozer, Allen H.) Magnetic islands and perturbed plasma equilibria. (English summary) **2004d:76117**
Ogilvie, Gordon I. (*with* Proctor, Michael R. E.) On the relation between viscoelastic and magnetohydrodynamic flows and their instabilities. (English summary) **2004h:76008**
Oliveira, Filipe Stability of the solitons for the one-dimensional Zakharov-Rubenchik equation. (English summary) **2004c:35390**
Omang, Marianne *see* **Børve, Steinar et al.**, (**2004d:65005**)
Ortega-Torres, E. E. *see* **Durán, Mario et al., 2004c:35336**
Ôtani, Mitsuharu *see* **Inoue, Hiroshi[2] et al., 2004i:76054**
Parks, P. B. (*with* Schaffer, M. J.) Analytical equilibrium and interchange stability of single- and double-axis field-reversed configurations inside a cylindrical cavity. (English summary) **2004c:76068**
Passot, T. (*with* Sulem, P. L.) Long-Alfvén-wave trains in collisionless plasmas. I. Kinetic theory. (English summary) **2004m:76184**
— (*with* Sulem, P. L.) Long-Alfvén-wave trains in collisionless plasmas. II. A Landau-fluid approach. (English summary) **2004m:76185**
— (*with* Sulem, P. L.) Filamentation instability of long Alfvén waves in warm collisionless plasmas. (English summary) **2004m:76186**
Pekker, M. S. *see* **Breizman, B. N. et al., 2004f:76122**
Peradzyński, Zbigniew Helicity conservation laws. (English summary) (*see* **2004d:76005**)
Pérez, A. T. *see* **Castellanos, Antonio et al., 2004a:76049**
Petrov, Aleksandr P. Traveling contrast structures in various models of a hydromagnetic dynamo. (Russian. English and Russian summaries) **2004e:85004**
— *see also* **Moss, David Leonard et al.**
Pinches, S. D. *see* **Breizman, B. N. et al., 2004f:76122**
Pipin, V. V. The α-effect and current helicity for fast sheared rotators. (English summary) **2004b:85006**
Platacis, Ernests *see* **Gailitis, Agris et al.**
Podvigina, Olga M. A route to magnetic field reversals: an example of an ABC-forced nonlinear dynamo. (English summary) **2004d:86021**
Pogorelov, Nikolai V. *see* **Kulikovskiĭ, Andreĭ Gennad′evich et al., 2004e:65088**
Polevikov, Viktor *see* **Lavrova, Olga et al.**
Popa, Cătălin *see* **Barbu, Viorel et al., 2004b:93012**
Priest, E. R. Current sheets in the Sun's corona. (English summary) (*see* **2004d:76005**)
Prikarpat·s′kiĭ, Ya. A. *see* **Samulyak, Roman**
Proctor, Michael R. E. *see* **Ogilvie, Gordon I., 2004h:76008**
Qatanani, Naji A. (*with* Barghouthi, Imad A.) On magnetohydrodynamic flow through porous media. (English summary) **2004d:76102**
Radwan, Ahmed E. Magneto-selfgravitational stability of triple superposed fluids layers of different densities. (English summary) **2004c:76069**
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Rapoport Campodónico, Diego Lucio Random representations of viscous fluids and the passive magnetic fields transported on them. (English summary) **2004e:76038**
— Martingale problem approach to the representations of the Navier-Stokes equations on smooth-boundary manifolds and semispace. (English summary) **2004g:76043**
Rathod, V. P. (*with* Gayatri) Effect of magnetic field on two layer model of pulsatile blood flow with micro-organisms. (English summary)
Rempel, Erico L. *see* **Borotto, Felix A. et al.**
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Sarma, Hemendra *see* **Choudhury, Rita**
Scarpellini, B. Equilibrium solutions of the Bénard equations with an exterior force. (English summary) **2004k:76037**
Schaffer, M. J. *see* **Parks, P. B., 2004c:76068**
Schief, Wolfgang Karl *see* **Rogers, Colin, 2004g:37103**
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Schneider, Rudolf[2] *see* **Kemm, Friedemann et al.**, (**2004e:65004**) *and* **Lee, Yong-Joong et al.**, (**2004j:00016**)
Schötzau, Dominik *see* **Schneebeli, Anna**
Semenov, Andrei Yu. *see* **Kulikovskiĭ, Andreĭ Gennad′evich et al., 2004e:65088**
Semenov, Vladimir S. (*with* Heyn, Martin F.; Ivanov, Ivan B.) Magnetic reconnection with space and time varying reconnection rates in a compressible plasma. (English summary) **2004j:76179**
Shapovalov, V. N. (*with* Shapovalova, O. V.) On stationary invariant configurations of an ideal plasma. (Russian. Russian summary) **2004a:76147**
Shapovalova, O. V. *see* **Shapovalov, V. N., 2004a:76147**
Sharapov, S. E. *see* **Breizman, B. N. et al., 2004f:76122**
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Siso-Nadal, F. *see* **Davidson, P. A., 2004b:86030**

Sokolov, D. D. *see* **Moss, David Leonard et al.**
Sritharan, S. S. *see* **Barbu, Viorel et al., 2004b:93012** *and* **(2004i:47002)**
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— *see also* **Griskey, M. C. et al., 2004d:76116** *and* **Urrutia, J. M. et al., 2004d:76120**
Strohmaier, K. D. *see* **Stenzel, R. L. et al., 2004c:76162; 2004d:76118; Griskey, M. C. et al., 2004d:76116** *and* **Urrutia, J. M. et al., 2004d:76120**
Sulem, P. L. *see* **Passot, T., 2004m:76184; 2004m:76185** *and* **2004m:76186**
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Tanoudis, G. B. *see* **Tzirtzilakis, E. E.**
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Tobiska, Lutz *see* **Lavrova, Olga et al.**
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Trakhinin, Yu. L. *see* **Ilin, K. I. et al., 2004b:76067** *and* **Blokhin, A. M., 2004i:76117**
Trebeschi, Paola On the slightly compressible MHD system in the half-plane. (English summary) **2004j:35180**
Trulsen, Jan *see* **Børve, Steinar et al., (2004d:65005)**
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— (*with* Kafoussias, N. G.) Biomagnetic fluid flow over a stretching sheet with non linear temperature dependent magnetization. (English summary) **2004f:76127**
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Vahala, George *see* **Vahala, Linda et al., 2004c:76115**
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Vladimirov, V. A. (*with* Ilin, K. I.) Virial functionals in fluid dynamics. (English and Russian summaries) **2004m:76051**
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Vogel, Thomas On the asymptotic linking number. (English summary) **2004c:57042**
Wang, Ping[4] *see* **He, Shu Hong, 2004d:86020**
Wesenberg, Matthias *see* **Dedner, Andreas et al., (2004j:00016)** *and* **(2004k:65005)**
Widlund, Ola Wall functions for numerical modeling of laminar MHD flows. (English summary) **2004e:76083**
Worland, S. J. *see* **Jones, Christopher Andrew et al., 2004f:76062**
Yepez, Jeffrey *see* **Vahala, Linda et al., 2004c:76115**
Zajączkowski, Wojciech M. *see* **Rohde, Christian, 2004f:35147**
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76X05 Ionized gas flow in electromagnetic fields; plasmic flow [see also 82D10]

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Barghouthi, Imad A. (*with* Qatanani, Naji A.; Allan, Fathi M.) Monte Carlo simulation of Boltzmann equation in space plasma at high latitudes. (English summary) **2004h:76172**
Ben Amar, M. *see* **Cummings, Linda Jane et al., 2004c:76158**
Berk, H. L. *see* **Breizman, B. N. et al., 2004f:76122**
Bhatti, Z. R. *see* **Durrani, Ijaz-ur-Rahman et al.**
Bizarro, João P. S. *see* **Rodrigues, Paulo, 2004j:76178**
Boozer, Allen H. Resistive wall modes and error field amplification. (English summary) **2004c:76157**
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Bostan, M. Permanent regimes for the 1D Vlasov-Poisson system with boundary conditions. (English summary) **2004k:76134**
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Chaliasos, Evangelos Equations of electromagnetic self-consistency in a plasma. (English summary)
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Chen, Liu *see* **Zonca, Fulvio et al.**
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Cummings, Linda Jane (*with* Richardson, Giles William; Ben Amar, M.) Models of void electromigration. (English summary) **2004c:76158**
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Dendy, R. O. *see* **Vann, R. G. L. et al., 2004a:76150**
Diamond, P. H. (*with* Malkov, M.) Dynamics of helicity transport and Taylor relaxation. (English summary) **2004d:76114**
Dorning, J. J. *see* **Lancellotti, Carlo, 2004h:76174**
Driscoll, C. F. *see* **Kabantsev, A. A. et al.**
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Elgin, John N. *see* **Zhang, Shi-Chang**
Elsässer, Klaus (*with* Kot, Yauhen) Weakly dissipative plasma equilibria in Kerr geometry. (English summary) **2004k:76135**
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Evans, T. E. *see* **Roeder, Roland K. W. et al.**
Fajans, J. Non-neutral plasma equilibria, trapping, separatrices, and separatrix crossing in magnetic mirrors. (English summary) **2004c:76159**
Finken, K.-H. *see* **Shoucri, M. et al., 2004e:76125**
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Garabedian, Paul R. Computational mathematics and physics of fusion reactors. (English summary) **2004j:76177**
García, Luis *see* **Carreras, B. A. et al., 2004i:76202**
García, Odd Erik Collective motions in non-uniformly magnetized plasmas. (English summary) **2004g:76137**
Gerhauser, H. *see* **Shoucri, M. et al., 2004e:76125**
Goloborod'ko, V. Ya. *see* **Marchenko, V. S. et al., 2004m:76183**
Gomberoff, K. Fast magnetic field penetration into a magnetized plasma with nonuniform density: a new family of shock solutions. (English summary) **2004d:76115**
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Hada, Tohru *see* **Borotto, Felix A. et al.**
Hanna, Jeremy *see* **Watts, Christopher**
Hărăguş-Courcelle, Mariana (*with* Nicholls, David P.; Sattinger, David H.) Solitary wave interactions of the Euler-Poisson equations. (English summary) **2004a:76143**
Hastie, R. J. *see* **Bruno, Antonio et al.**, **2004e:76122** *and* **2004c:76123**
Heyn, Martin F. *see* **Semenov, Vladimir S. et al.**, **2004j:76179**
Hornig, Gunnar (*with* Priest, E. R.) Evolution of magnetic flux in an isolated reconnection process. (English summary) **2004c:76160**
Hudson, Stuart Ronald Destruction of invariant surfaces and magnetic coordinates for perturbed magnetic fields. (English summary) **2004k:76136**
Ivanov, Ivan B. *see* **Semenov, Vladimir S. et al.**, **2004j:76179**
Jüngel, Ansgar *see* **Ali, Giuseppe**, **2004b:76165**
Kabantsev, A. A. (*with* Yu, J. H.; Lynch, R. B.; Driscoll, C. F.) Trapped particles and asymmetry-induced transport. (English summary)
Kaiser, Ralf (*with* Uecker, Hannes) Relaxed plasma-vacuum states in cylinders. (English summary) **2004m:76180**
Kamenets, F. F. *see* **Mikhailovskii, A. B. et al.**
Kaup, D. J. Theoretical modeling of an A6 relativistic magnetron. (English summary)
Kiessling, Michael K.-H. (*with* Neukirch, Thomas) Negative specific heat of a magnetically self-confined plasma torus. (English summary) **2004i:76205**
Konovalov, S. V. *see* **Mikhailovskii, A. B. et al.**
Kot, Yauhen *see* **Elsässer, Klaus**, **2004k:76135**
Kourakis, I. (*with* Shukla, Padma Kant) Ion-acoustic waves in a two-electron-temperature plasma: oblique modulation and envelope excitations. (English summary)
Kovalishen, E. A. *see* **Mikhailovskii, A. B. et al.**
Kozlov, A. N. Influence of a longitudinal magnetic field on the Hall effect in the plasma accelerator channel. (Russian. Russian summary) **2004i:76206**
Kremer, Jason P. *see* **Pedersen, Thomas Sunn et al.**
Kwak, Ho-Young Electrostatic plasma modes in cylindrical geometry. (English summary) **2004m:76181**
Lancellotti, Carlo (*with* Dorning, J. J.) Time-asymptotic wave propagation in collisionless plasmas. (English summary) **2004h:76174**
Lee, Hayoung The classical limit of the relativistic Vlasov-Maxwell system in two space dimensions. (English summary) **2004i:76207**
Lee, Nam C. (*with* Parks, George K.) The envelope equation of oblique Alfvén waves. (English summary) **2004a:76144**
Lefrancois, Remi *see* **Pedersen, Thomas Sunn et al.**
Li, Ye-ping L^p-convergence rate of solutions for one-dimensional hydrodynamic model for semiconductor. (English and Chinese summaries) **2004h:76175**
Liu, Hailiang (*with* Slemrod, Marshall) KdV dynamics in the plasma-sheath transition. (English summary) **2004m:76182**
Lynch, R. B. *see* **Kabantsev, A. A. et al.**
Lynch, V. E. *see* **Carreras, B. A. et al.**, **2004i:76202**
Mahajan, S. M. *see* **Tatsuno, T. et al.**, **2004d:76119**
Malkov, M. *see* **Diamond, P. H.**, **2004d:76114**
Marchenko, V. S. (*with* Goloborod′ko, V. Ya.; Reznik, S. N.) Behavior of a zonal flow near the threshold. (English summary) **2004m:76183**
Matsumoto, Hiroshi[1] *see* **Gaelzer, R. et al.**, **2004a:76141** *and* **Umeda, Tomio et al.**, **2004a:76142**
Mikhailovskii, A. B. (*with* Kovalishen, E. A.; Shirokov, M. S.; Konovalov, S. V.; Tsypin, V. S.; Kamenets, F. F.; Ozeki, Takahisa; Takizuka, T.) Microislands in tokamaks. (English summary)
Naumov, N. D. Formulation of the Shafranov method for a rotating plasma. (Russian)
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Neukirch, Thomas *see* **Kiessling, Michael K.-H.**, **2004i:76205**
Nicholls, David P. *see* **Hărăguş-Courcelle, Mariana et al.**, **2004a:76143**
Nührenberg, Carolin (*with* Boozer, Allen H.) Magnetic islands and perturbed plasma equilibria. (English summary) **2004d:76117**
Omura, Yoshiharu *see* **Gaelzer, R. et al.**, **2004a:76141** *and* **Umeda, Tomio et al.**, **2004a:76142**
Ozeki, Takahisa *see* **Mikhailovskii, A. B. et al.**
Parks, George K. *see* **Lee, Nam C.**, **2004a:76144**
Parzani, Céline *see* **Degond, Pierre et al.**, **2004i:76203** *and* **2004m:76179**
Passot, T. (*with* Sulem, P. L.) Long-Alfvén-wave trains in collisionless plasmas. I. Kinetic theory. (English summary) **2004m:76184**
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— (*with* Sulem, P. L.) Filamentation instability of long Alfvén waves in warm collisionless plasmas. (English summary) **2004m:76186**
Pavlenko, I. (*with* Rapoport, B. I.; Weyssow, B.; Carati, D.) Hamiltonian mapping of magnetic reconnection during the crash stage of the sawtooth instability. (English summary) **2004a:76145**
Pavlenko, Vladimir P. *see* **Andrushchenko, Zhanna N.**, **2004m:76178**
Pedersen, Thomas Sunn (*with* Boozer, Allen H.; Kremer, Jason P.; Lefrancois, Remi) Confinement of plasmas of arbitrary neutrality in a stellarator. (English summary)
Pekker, M. S. *see* **Breizman, B. N. et al.**, **2004f:76122**
Pervez, A. *see* **Durrani, Ijaz-ur-Rahman et al.**
Pinches, S. D. *see* **Breizman, B. N. et al.**, **2004f:76122**
Priest, E. R. *see* **Hornig, Gunnar**, **2004c:76160**
Qatanani, Naji A. *see* **Barghouthi, Imad A. et al.**, **2004h:76172**
Rapoport, B. I. *see* **Pavlenko, I. et al.**, **2004a:76145** *and* **Roeder, Roland K. W. et al.**
Rasband, S. Neil (*with* Spencer, Ross L.) Modes in a non-neutral plasma of finite length, $m = 0, 1$. (English summary) **2004a:76146**
Rempel, Erico L. *see* **Borotto, Felix A. et al.**
Resendes, D. P. (*with* Sorasio, G.; Shukla, Padma Kant) Self-consistent Langevin theory of self-excited oscillations of grains in plasma sheaths. (English summary)
Reznik, S. N. *see* **Marchenko, V. S. et al.**, **2004m:76183**
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Rodrigues, Paulo (*with* Bizarro, João P. S.) Asymptotic, closed integral solutions for the reconstruction of Grad-Shafranov equilibria in axisymmetric, large-aspect-ratio toroidal plasmas. (English summary) **2004j:76178**
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Rowlands, George *see* **Vann, R. G. L. et al.**, **2004a:76150**
Saint Raymond, Laure Control of large velocities in the two-dimensional gyrokinetic approximation. (English summary) **2004b:76166**
Sattinger, David H. *see* **Hărăguş-Courcelle, Mariana et al.**, **2004a:76143**
Schamel, Hans Lagrangian fluid description with simple applications in compressible plasma and gas dynamics. (English summary) **2004k:76137**
Semenov, Vladimir S. (*with* Heyn, Martin F.; Ivanov, Ivan B.) Magnetic reconnection with space and time varying reconnection rates in a compressible plasma. (English summary) **2004j:76179**
Shapovalov, V. N. (*with* Shapovalova, O. V.) On stationary invariant configurations of an ideal plasma. (Russian. Russian summary) **2004a:76147**
Shapovalova, O. V. Equilibrium plasma configurations near a generic point. (Russian. Russian summary) **2004a:76148**
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— *see also* **Shapovalov, V. N.**, **2004a:76147**
Sharapov, S. E. *see* **Breizman, B. N. et al.**, **2004f:76122**
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Slemrod, Marshall The radio-frequency driven plasma sheath: asymptotics and analysis. (English summary) **2004g:76138**
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Sorasio, G. *see* **Resendes, D. P. et al.**
Spencer, Ross L. *see* **Rasband, S. Neil**, **2004a:76146**
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Mascali, G. *see* **Anile, A. M. et al., (2004h:00023)**
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Romano, V. *see* **Anile, A. M. et al., (2004h:00023)**
Rostoker, Norman *see* **Qerushi, Artan, 2004d:82037** *and* **2004d:82038**
Rudakov, L. I. *see* **Huba, J. D., 2004e:76116**
Sacco, Riccardo *see* **Ballestra, Luca V., 2004m:82149**
Saint Raymond, Laure *see* **Golse, François, 2004c:82120**
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Schaffer, M. J. *see* **Parks, P. B., 2004c:76068**
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Tóth, Gábor Zsolt *see* **Keppens, R. et al., 2004i:76152**
Tracy, Eugene R. *see* **Brizard, Alain J.**
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Tsintsadze, N. L. *see* **Fedele, Renato et al., 2004m:35245**
Tuminaro, Raymond S. *see* **Bochev, Pavel B. et al., 2004g:65173**
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Vidrascu, Marina *see* **Gerbeau, Jean-Frédéric, 2004i:74038**
van de Vosse, Frans N. Mathematical modelling of the cardiovascular system. (English summary)
— *see also* **Mathematical modelling of the cardiovascular system**
Wang, Yongqi *see* **Hayat, Tasawar et al., 2004i:76004**
(Weatherill, N. P.) *see* **Conference: Computational Fluid Dynamics**
Wee, Ling Y. *see* **Franke, Victoria E. et al., 2004i:92010**
Zhao, Meide *see* **Ruan, Weihua et al., 2004m:92009**
Zovatto, Luigino *see* **Bolzon, Giorgio et al., 2004i:76077**

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Conference:
Computational Fluid Dynamics ★ ECCOMAS Computational Fluid Dynamics Conference. Part II.
Mathematical modelling of the cardiovascular system ★ Mathematical modelling of the cardiovascular system.
Swansea ★ ECCOMAS Computational Fluid Dynamics Conference. Part II.

76Z10 Biopropulsion in water and in air

Babenko, Viktor V. (*with* Carpenter, Peter W.) Dolphin hydrodynamics. (English summary) (*see* **2004c:76001**)
Becker, L. E. (*with* Koehler, S. A.; Stone, Howard A.) On self-propulsion of micro-machines at low Reynolds number: Purcell's three-link swimmer. (English summary) **2004h:76179**
Carpenter, Peter W. *see* **Babenko, Viktor V., (2004c:76001)**
Dillon, Robert H. (*with* Fauci, Lisa J.; Omoto, Charlotte) Mathematical modeling of axoneme mechanics and fluid dynamics in ciliary and sperm motility. (English summary) **2004h:76180**
Fauci, Lisa J. *see* **Dillon, Robert H. et al., 2004h:76180**
Frankel, I. *see* **Manela, A., 2004h:76181**
Koehler, S. A. *see* **Becker, L. E. et al., 2004h:76179**

Manela, A. (*with* Frankel, I.) Generalized Taylor dispersion in suspensions of gyrotactic swimming micro-organisms. (English summary) **2004h:76181**
Omoto, Charlotte *see* **Dillon, Robert H. et al., 2004h:76180**
Rozumnyuk, N. V. *see* **Voropaev, G. A.**
Shekhovtsov, A. V. Non-linear mathematical model of the dolphin tail fin motion. (English summary) **2004a:76153**
Stone, Howard A. *see* **Becker, L. E. et al., 2004h:76179**
Sugimoto, Takeshi A theoretical analysis of formation flight as a nonlinear self-organizing phenomenon. (English summary) **2004h:76182**
Voropaev, G. A. (*with* Rozumnyuk, N. V.) Numerical simulation of turbulent flows over compliant surfaces. (English summary)

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Ahmad, Naseer *see* **Hayat, Tasawar et al., 2004i:92002**
Allen, Leanne (*with* Bridges, Thomas J.) Flow past a swept wing with a compliant surface: stabilizing the attachment-line boundary layer. (English summary) **2004b:76050**
Bridges, Thomas J. *see* **Allen, Leanne, 2004b:76050**
Capuani, F. *see* **Lagomarsino, M. C. et al.**
Djilali, N. *see* **Pedro, G. et al., 2004c:76015**
Goto, Tomonobu *see* **Magar, Vanesa et al., 2004f:92039**
Hayat, Tasawar (*with* Ahmad, Naseer; Mahomed, F. M.) On solution of non-linear differential equation arising in gliding motion of bacteria. (English summary) **2004i:92002**
Hillen, Berend *see* **Loots, Erwin et al., 2004d:92004**
Lagomarsino, M. C. (*with* Capuani, F.; Lowe, Christopher P.) A simulation study of the dynamics of a driven filament in an Aristotelian fluid. (English summary)
Lega, J. (*with* Passot, T.) Inverse cascade and energy transfer in forced low-Reynolds number two-dimensional turbulence. (English summary) **2004m:76095**
Loots, Erwin (*with* Hillen, Berend; Veldman, Arthur E. P.) The role of hemodynamics in the development of the outflow tract of the heart. (English summary) **2004d:92004**
Lowe, Christopher P. *see* **Lagomarsino, M. C. et al.**
Magar, Vanesa (*with* Goto, Tomonobu; Pedley, Timothy J.) Nutrient uptake by a self-propelled steady squirmer. (English summary) **2004f:92039**
Mahomed, F. M. *see* **Hayat, Tasawar et al., 2004i:92002**
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Pedley, Timothy J. *see* **Magar, Vanesa et al., 2004f:92039**
Pedro, G. (*with* Suleman, A.; Djilali, N.) A numerical study of the propulsive efficiency of a flapping hydrofoil. (English summary) **2004c:76015**
Pennycuick, C. J. The concept of energy height in animal locomotion: separating mechanics from physiology. (English summary)
Smirnov, S. A. (*with* Voropaev, S. I.) On the asymptotic theory of momentum/zero-momentum wakes. (English summary) **2004c:76016**
Suleman, A. *see* **Pedro, G. et al., 2004c:76015**
Veldman, Arthur E. P. *see* **Loots, Erwin et al., 2004d:92004**
Voropaev, S. I. *see* **Smirnov, S. A., 2004c:76016**

76Z99 None of the above, but in this section

El Hakeem Abd El Naby, Abd (*with* El Misiery, A. E. M.; El Shamy, I. I.) Hydromagnetic flow of fluid with variable viscosity in a uniform tube with peristalsis. (English summary) **2004h:76183**
— (*with* El Misiery, A. E. M.; El Shamy, I. I.) Corrigendum: "Hydromagnetic flow of fluid with variable viscosity in a uniform tube with peristalsis" [J. Phys. A **36** (2003), no. 31, 8535–8547].
El Misiery, A. E. M. *see* **El Hakeem Abd El Naby, Abd et al., 2004h:76183**
El Shamy, I. I. *see* **El Hakeem Abd El Naby, Abd et al., 2004h:76183**
Kafoussias, N. G. *see* **Tzirtzilakis, E. E., 2004f:76127**
Loukopoulos, V. C. (*with* Tzirtzilakis, E. E.) Biomagnetic channel flow in spatially varying magnetic field. (English summary)
Tzirtzilakis, E. E. (*with* Kafoussias, N. G.) Biomagnetic fluid flow over a stretching sheet with non linear temperature dependent magnetization. (English summary) **2004f:76127**
— *see also* **Loukopoulos, V. C.**

Items with secondary classifications in 76Z99

(Almeida, Maria de Fátima L. B. P.) *see* **Koiller, Jair, 2004k:37112**
Aumann, Craig A. (*with* Ford, E. David) Parameterizing a model of Douglas fir water flow using a tracheid-level model. (English summary)
Bonello, P. *see* **Brennan, Michael John et al.**
Brennan, Michael John (*with* Elliott, S. J.; Bonello, P.; Vincent, J. F. V.) The "click" mechanism in dipteran flight: if it exists, then what effects does it have? (English summary)
Cai, Hongxue (*with* Chadwick, Richard) Radial structure of traveling waves in the inner ear. (English summary) **2004e:74060**
Chadwick, Richard *see* **Cai, Hongxue, 2004e:74060**
Chandra, Peeyush *see* **Satpathi, D. K. et al.**
Chen-Charpentier, Benito M. (*with* Li, Yaqing; Suchomel, Brian) Modeling of biofilm growth in porous media at the pore scale and up-scaling. (English summary) **2004b:86011**
(Coli, Earnest W.) *see* **Koiller, Jair, 2004k:37112**
(Delgado Fernández, Joaquín) *see* **Koiller, Jair, 2004k:37112**
(Ehlers, Kurt) *see* **Koiller, Jair, 2004k:37112**
Elliott, S. J. *see* **Brennan, Michael John et al.**
Ford, E. David *see* **Aumann, Craig A.**
George, Thomas F. *see* **Long, Charles A. et al.**
Ghorai, Saktipada (*with* Hill, N. A.) Axisymmetric bioconvection in a cylinder. (English summary)
Hill, N. A. *see* **Ghorai, Saktipada**
Koiller, Jair Momentum maps and geometric phases. **2004k:37112**
Lega, J. (*with* Passot, T.) Hydrodynamics of bacterial colonies: a model. (English summary) **2004c:92023**
Li, Yaqing *see* **Chen-Charpentier, Benito M. et al., 2004b:86011**
Long, Charles A. (*with* Zhang, Guo Ping[3]; George, Thomas F.; Long, Claudine F.) Physical theory, origin of flight, and a synthesis proposed for birds. (English summary)
Long, Claudine F. *see* **Long, Charles A. et al.**
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Müller, Mees (*with* Verhagen, J. H. G.) Optimization of the mechanical performance of a two-duct semicircular duct system. I. Dynamics and duct dimensions. (English summary)
— (*with* Verhagen, J. H. G.) Optimization of the mechanical performance of a two-duct semicircular duct system. II. Excitation of endolymph movements. (English summary)
— (*with* Verhagen, J. H. G.) Optimisation of the mechanical performance of a two-duct semicircular duct system. III. The positioning of the ducts in the head. (English summary)
Nakajima, Hisao *see* **Yoshiyama, Kohei, 2004k:92055**
Passot, T. *see* **Lega, J., 2004c:92023**
Ratish Kumar, B. V. *see* **Satpathi, D. K. et al.**
Satpathi, D. K. (*with* Ratish Kumar, B. V.; Chandra, Peeyush) Unsteady-state laminar flow of viscoelastic gel and air in a channel: application to mucus transport in a cough machine simulating trachea. (English summary)
(Stüchi, Teresinha J.) *see* **Koiller, Jair, 2004k:37112**
Suchomel, Brian *see* **Chen-Charpentier, Benito M. et al., 2004b:86011**
Tanoudis, G. B. *see* **Tzirtzilakis, E. E.**
Tzirtzilakis, E. E. (*with* Tanoudis, G. B.) Numerical study of biomagnetic fluid flow over a stretching sheet with heat transfer. (English summary)
Verhagen, J. H. G. *see* **Müller, Mees**
Vincent, J. F. V. *see* **Brennan, Michael John et al.**
Yoshiyama, Kohei (*with* Nakajima, Hisao) Catastrophic transition in vertical distributions of phytoplankton: alternative equilibria in a water column. (English summary) **2004k:92055**
Zhang, Guo Ping[3] *see* **Long, Charles A. et al.**

78–XX Optics, electromagnetic theory {For quantum optics, see 81V80.}

78–01 Instructional exposition (textbooks, tutorial papers, etc.)

Hehl, Friedrich W. (*with* Obukhov, Yu. N.) ★ Foundations of classical electrodynamics. **2004g:78001**
Moloney, Jerome (*with* Newell, Alan C.) ★ Nonlinear optics. **2004g:78002**
Newell, Alan C. *see* **Moloney, Jerome**, **2004g:78002**
Obukhov, Yu. N. *see* **Hehl, Friedrich W.**, **2004g:78001**
Owen, George E. ★ Introduction to electromagnetic theory.

Items with secondary classifications in 78–01

Agricola, Ilka (*with* Friedrich, Thomas) ★ Global analysis. **2004f:58001**
Friedrich, Thomas *see* **Agricola, Ilka**, **2004f:58001**
(Nestke, Andreas) *see* **Agricola, Ilka**, **2004f:58001**
Parker, David F. ★ Fields, flows and waves. **2004b:74001**

78–02 Research exposition (monographs, survey articles)

(Akleman, Funda) *see* **Sevgi, Levent**, **2004i:78001**
Cornille, Patrick ★ Advanced electromagnetism and vacuum physics. **2004g:78003**
Fabrizio, Mauro (*with* Morro, Angelo) ★ Electromagnetism of continuous media. **2004j:78001**
Morro, Angelo *see* **Fabrizio, Mauro**, **2004j:78001**
(Özyalçın, M. Orhan) *see* **Sevgi, Levent**, **2004i:78001**
Sevgi, Levent ★ Complex electromagnetic problems and numerical simulation approaches. **2004i:78001**

Items with secondary classifications in 78–02

Buffa, Annalisa Trace theorems on non-smooth boundaries for functional spaces related to Maxwell equations: an overview. (English summary) **2004g:78015**
Jin, Jian-Ming ★ The finite element method in electromagnetics. (English summary) **2004b:78019**
Milman, Andrew S. ★ Mathematical principles of remote sensing: making inferences from noisy data. **2004k:94001**
Perlick, Volker ★ Ray optics, Fermat's principle, and applications to general relativity. **2004b:78003**
Zou, Jun Finite volume methods for solving electromagnetic problems in nonhomogeneous media. (English summary)

Items listed otherwise than by author

Lecture Notes in Physics. Monographs *see* **Perlick, Volker**, **2004b:78003**

78–03 Historical (must also be assigned at least one classification number from Section 01)

Jones, Douglas S. Is electromagnetism any use? (*see* **2004k:00025**)

Items with secondary classifications in 78–03

Catastini, Laura (*with* Ghione, Franco) The geometry of sight: from Euclid's *Optics* to Renaissance perspective. (Italian) (*see* **2004d:00018**)
D'Agostino, Salvo ★ A history of the ideas of theoretical physics. **2004j:01017**
Dijksterhuis, Fokko Jan Once Snell breaks down: from geometrical to physical optics in the seventeenth century. (English summary) **2004m:01017**
Ghione, Franco *see* **Catastini, Laura**, (**2004d:00018**)
Hokkyo, Noboru Feynman's proof of Maxwell equations and Yang's unification of electromagnetic and gravitational Aharonov-Bohm effects. (English summary) **2004k:81021**
Hunt, Bruce J. Electrical theory and practice in the nineteenth century. (*see* **2004g:01001**)
Malet, Antoni Kepler and the telescope. (English summary) **2004h:01042**
Newton, Isaac ★ Opticks.
(Thomson, William, Lord Kelvin) *see* **Trainer, Matthew**, **2004g:74001**
Trainer, Matthew Kelvin and piezoelectricity. (English summary) **2004g:74001**

78–05 Experimental work

Items with secondary classifications in 78–05

Chen, Fu-Chiarng (*with* Chew, Weng Cho) Time-domain ultra-wideband imaging radar experiment for verifying super-resolution in nonlinear inverse scattering. (English summary)
Chew, Weng Cho *see* **Chen, Fu-Chiarng**

78–06 Proceedings, conferences, collections, etc.

(Alotto, Piergiorgio) *see* **Symposium: Numerical Field Computation**
(Biró, Oszkár) *see* **Symposium: Numerical Field Computation**
(Carstensen, Carsten) *see* **Computational electromagnetics**, **2004b:78001**
(Dvoeglazov, V. V.) *see* **Special Issue: Contemporary electrodynamics**
(Funken, Stefan) *see* **Computational electromagnetics**, **2004b:78001**
(Hackbusch, Wolfgang) *see* **Computational electromagnetics**, **2004b:78001**
(Hoppe, Ronald H. W.) *see* **Computational electromagnetics**, **2004b:78001**
(Lochak, Georges) *see* **Special Issue: Contemporary electrodynamics**
(Lowther, David A.) *see* **Symposium: Numerical Field Computation**
(Monk, Peter) *see* **Computational electromagnetics**, **2004b:78001**
(Pleshchinskiĭ, N. B.) *see* **Problems of diffraction and coupling of electromagnetic fields in waveguide structures**
Reitich, Fernando (*with* Tamma, Kumar K.) State-of-the-art, trends, and directions in computational electromagnetics [Special issue on computational electromagnetics].
(Rudnicki, Marek) *see* **Optimization and inverse problems in electromagnetism**, **2004j:78002**
Tamma, Kumar K. *see* **Reitich, Fernando**
(Wiak, Sławomir) *see* **Optimization and inverse problems in electromagnetism**, **2004j:78002**

Items listed otherwise than by author

Computational electromagnetics ★ Computational electromagnetics. **2004b:78001**
Graz ★ Selected papers from the 10th International IGTE Symposium on Numerical Field Computation.
Kazan' ★ Задачи дифракции и сопряжение электромагнитных полей в волноводных структурах. (Russian) [Problems of diffraction and coupling of electromagnetic fields in waveguide structures]
Kiel ★ Computational electromagnetics. **2004b:78001**
Łódź ★ Optimization and inverse problems in electromagnetism. **2004j:78002**
Optimization and inverse problems in electromagnetism ★ Optimization and inverse problems in electromagnetism. **2004j:78002**
Problems of diffraction and coupling of electromagnetic fields in waveguide structures ★ Задачи дифракции и сопряжение электромагнитных полей в волноводных структурах. (Russian) [Problems of diffraction and coupling of electromagnetic fields in waveguide structures]
Special Issue:
  Contemporary electrodynamics ★ Special issue on contemporary electrodynamics, 2.
Symposium:
  Numerical Field Computation ★ Selected papers from the 10th International IGTE Symposium on Numerical Field Computation.

Items with secondary classifications in 78–06

(Ainsworth, Mark) *see* **Topics in computational wave propagation**, **2004h:65008**
(Akhmediev, Nail) *see* **Nonlinear dynamics**, **2004e:37004**
(Ball, Rowena) *see* **Nonlinear dynamics**, **2004e:37004**
(Barton, Noel G.) *see* **Coupling of fluids, structures and waves in aeronautics**, **2004j:76001**
(Davies, Penny J.) *see* **Topics in computational wave propagation**, **2004h:65008**
(Duncan, Dugald) *see* **Topics in computational wave propagation**, **2004h:65008**
(Gohberg, Israel) *see* **Operator theoretical methods and applications to mathematical physics**, **2004k:00025**
(Horwitz, Lawrence P.) *see* **Proceedings: Conference of the International Association for Relativistic Dynamics**
(Kuchment, Peter) *see* **Waves in periodic and random media**, **2004j:00029**
(Martin, Paul Andrew) *see* **Topics in computational wave propagation**, **2004h:65008**
(Meister, Erhard) *see* **Operator theoretical methods and applications to mathematical physics**, **2004k:00025**
(Morgan, Kenneth) *see* **Conference: Computational Fluid Dynamics**
(Périaux, Jacques F.) *see* **Coupling of fluids, structures and waves in aeronautics**, **2004j:76001**
(Rynne, Bryan P.) *see* **Topics in computational wave propagation**, **2004h:65008**
(dos Santos, António Ferreira) *see* **Operator theoretical methods and applications to mathematical physics**, **2004k:00025**
(Speck, Frank-Olme) *see* **Operator theoretical methods and applications to mathematical physics**, **2004k:00025**
(Teixeira, Francisco Sepúlveda) *see* **Operator theoretical methods and applications to mathematical physics**, **2004k:00025**
(Weatherill, N. P.) *see* **Conference: Computational Fluid Dynamics**
(Wendland, Wolfgang L.) *see* **Operator theoretical methods and applications to mathematical physics**, **2004k:00025**

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Canberra ★ Nonlinear dynamics. **2004e:37004**
Conference:
  Computational Fluid Dynamics ★ ECCOMAS Computational Fluid Dynamics Conference. Part III.
Contemporary Mathematics ★ Waves in periodic and random media. **2004j:00029**
Coupling of fluids, structures and waves in aeronautics ★ Coupling of fluids, structures and waves in aeronautics. **2004j:76001**
Melbourne ★ Coupling of fluids, structures and waves in aeronautics. **2004j:76001**
Nonlinear dynamics ★ Nonlinear dynamics. **2004e:37004**
Operator theoretical methods and applications to mathematical physics ★ Operator theoretical methods and applications to mathematical physics. **2004k:00025**
Proceedings:
  Conference of the International Association for Relativistic Dynamics ★ Proceedings, Part 1, IARD 2002.
School:
  Physics ★ Nonlinear dynamics. **2004e:37004**
South Hadley, MA ★ Waves in periodic and random media. **2004j:00029**
Swansea ★ ECCOMAS Computational Fluid Dynamics Conference. Part III.
Topics in computational wave propagation ★ Topics in computational wave propagation. **2004h:65008**
Washington, DC ★ Proceedings, Part 1, IARD 2002.
Waves in periodic and random media ★ Waves in periodic and random media. **2004j:00029**

78Axx General

Items with secondary classifications in 78Axx

Fabrizio, Mauro (*with* Morro, Angelo) ★ Electromagnetism of continuous media. **2004j:78001**
Morro, Angelo *see* **Fabrizio, Mauro**, **2004j:78001**

78A02 Foundations

Ceniceros, Hector D. (*with* Tian, Fei-Ran) A numerical study of the semi-classical limit of

the focusing nonlinear Schrödinger equation. (English summary) **2004a:78001**
Collino, Francis (*with* Després, Bruno) An iterative method for time-harmonic integral Maxwell's equations. (English summary) (*see* **2004j:76001**)
Dassios, George *see* **Lindell, I. V., 2004e:78002**
Després, Bruno *see* **Collino, Francis, (2004j:76001)**
Hall, William F. (*with* Kabakian, Adour V.) A sequence of absorbing boundary conditions for Maxwell's equations. (English summary) **2004k:78001**
Kabakian, Adour V. *see* **Hall, William F., 2004k:78001**
Kiehn, R. M. Curvature and torsion of implicit hypersurfaces and the origin of charge-currents. (English summary) **2004e:78001**
Lindell, I. V. (*with* Dassios, George) Helmholtz theorem for multiform fields. (English summary) **2004e:78002**
Sowa, Artur The (fully) nonlinear Maxwell theory delineated. (English summary) **2004c:78001**
Tian, Fei-Ran *see* **Ceniceros, Hector D., 2004a:78001**
Timotin, Alexandru Sur l'approche inductive des lois de l'électrodynamique macroscopique relativiste. (French summary) [On the inductive approach to the laws of relativistic macroscopic electrodynamics]

Items with secondary classifications in 78A02

Boulahoual, A. (*with* Sedra, M. B.) Noncommutative geometry framework and the Feynman's proof of Maxwell equations. (English summary) **2004i:81120**
Brackbill, J. U. *see* **Ricci, Paolo et al., 2004c:78035**
Chicone, Carmen What are the equations of motion of classical physics? (English summary) **2004h:70002**
Cornille, Patrick ★ Advanced electromagnetism and vacuum physics. **2004g:78003**
Hokkyo, Noboru Feynman's proof of Maxwell equations and Yang's unification of electromagnetic and gravitational Aharonov-Bohm effects. (English summary) **2004k:81021**
Jiménez, J. L. *see* **López-Mariño, M. A., 2004k:78004**
Krivskiĭ, I. Yu. *see* **Simulik, V. M., 2004c:78006**
Lapenta, Giovanni *see* **Ricci, Paolo et al., 2004c:78035**
López-Mariño, M. A. (*with* Jiménez, J. L.) Analysis of the Abraham-Minkowski controversy by means of two simple examples. (English summary) **2004k:78004**
Mosini, Valeria Was the methodology behind electrodynamics inductive or deductive? (English and Italian summaries)
Nicaise, Serge (*with* Pignotti, Cristina) Boundary stabilization of Maxwell's equations with space-time variable coefficients. (English summary) **2004g:93129**
Pignotti, Cristina *see* **Nicaise, Serge, 2004g:93129**
Puccini, G. D. Electrodynamics under a possible alternative to the Lorentz transformation. (English summary) **2004i:83008**
Ricci, Paolo (*with* Lapenta, Giovanni; Brackbill, J. U.) A simplified implicit Maxwell solver. (English summary) **2004c:78035**
Sedra, M. B. *see* **Boulahoual, A., 2004i:81120**
Shebalin, John V. A spectral algorithm for solving the relativistic Vlasov-Maxwell equations. (English summary)
Simulik, V. M. (*with* Krivskiĭ, I. Yu.) Relationship between the Maxwell and Dirac equations: symmetries, quantization, models of atom. (English summary) **2004c:78006**
Trimarco, Carmine The structure of material forces in electromagnetic materials. (English summary) **2004d:74002**

78A05 Geometric optics

Alterman, Deborah (*with* Rauch, Jeffrey B.) Diffractive nonlinear geometric optics for short pulses. (English summary) **2004j:78003**
Bazzani, Armando (*with* Freguglia, Paolo) An optical geometric model of the betatronic motion. (English summary)
Benamou, Jean-David An Eulerian numerical method for geometric optics. (English and French summaries) (*see* **2004h:65006**)
— An introduction to Eulerian geometrical optics (1992–2002). (English summary) **2004j:78004**
Buchta, Krisztián *see* **Horváth, Gábor et al., 2004g:78004**
Cheng, Li-Tien (*with* Kang, Myungjoo; Osher, Stanley J.; Shim, Hyeseon; Tsai, Yen-Hsi Richard) Reflection in a level set framework for geometric optics. (English summary)
Freguglia, Paolo *see* **Bazzani, Armando**
Horváth, Gábor (*with* Buchta, Krisztián; Varjú, Dezsö) Looking into the water with oblique head tilting: revision of the aerial binocular imaging of underwater objects. (English summary) **2004g:78004**
Kalligiannaki, E. (*with* Katsaounis, Theodoros; Makrakis, George N.) High frequency waves near cusp caustics. (English summary) **2004a:78002**
Kang, Myungjoo *see* **Cheng, Li-Tien et al.**
Katsaounis, Theodoros *see* **Kalligiannaki, E. et al., 2004a:78002**
Konopel'chenko, B. G. (*with* Moro, Antonio) Geometrical optics in nonlinear media and integrable equations. (English summary) **2004m:78001**
Makrakis, George N. *see* **Kalligiannaki, E. et al., 2004a:78002**
Moro, Antonio *see* **Konopel'chenko, B. G., 2004m:78001**
Oliker, Vladimir I. Mathematical aspects of design of beam shaping surfaces in geometrical optics. (English summary) **2004g:78005**
Osher, Stanley J. *see* **Cheng, Li-Tien et al.**
Pozzi, Giulio Sommerfeld revisited: a new approach to the third-order Seidel aberrations. (English summary) **2004f:78001**
Rauch, Jeffrey B. *see* **Alterman, Deborah, 2004j:78003**
Shim, Hyeseon *see* **Cheng, Li-Tien et al.**
Tsai, Yen-Hsi Richard *see* **Cheng, Li-Tien et al.**
Varjú, Dezsö *see* **Horváth, Gábor et al., 2004g:78004**

Items with secondary classifications in 78A05

Babich, V. M. On the propagation of creeping waves along a curvilinear surface of an anisotropic elastic body. (Russian. English and Russian summaries) **2004f:74045**
Bahouri, Hajer (*with* Gérard, Patrick) Concentration effects in critical nonlinear wave equation and scattering theory. (*see* **2004h:35003**)
Benamou, Jean-David (*with* Lafitte, Olivier; Sentis, Rémi; Solliec, I.) A geometrical optics-based numerical method for high frequency electromagnetic fields computations near fold caustics. I. (English summary) **2004d:78026**
Ben Moussa, B. (*with* Kossioris, G. T.) On the system of Hamilton-Jacobi and transport equations arising in geometrical optics. (English summary) **2004g:35218**
Cabrerizo-Vílchez, M. A. *see* **Rodríguez-Valverde, M. A. et al., 2004c:76027**
Cheverry, C. About the Cauchy problem for a system of conservation laws. **2004k:35251**
(Colombini, Ferruccio) *see* **Geometrical optics and related topics, 2004h:35003**
Gérard, Patrick *see* **Bahouri, Hajer, (2004h:35003)**
Gibson, B. Paul The light path in three-dimensional space. (English summary)
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78A10 Physical optics

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78A30 Electro- and magnetostatics

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Ohnaka, Kohzaburo *see* **Yamatani, Katsu et al., 2004c:78037**
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78A35 Motion of charged particles

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78A40 Waves and radiation

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78A45 Diffraction, scattering [see also 34E20 for WKB methods]

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Holschneider, Matthias *see* **Guérin, Charles-Antoine**, **2004h:78019**
Hong, Wei *see* **Cui, Tie Jun et al.**
Hovenier, Joop W. *see* **Mishchenko, M. I. et al.**, **2004m:78012**
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Pham Ngoc Dinh, A. *see* **William, Durand et al., 2004h:78023**
Pimenov, Yu. V. *see* **Davydov, A. G. et al., 2004h:78016**
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Sayah, Toni *see* **Abboud, Toufic, 2004b:78011**
Schmidt, Gunther *see* **Bao, Gang[1] et al., 2004d:78011**; **Elschner, Johannes et al., 2004f:78014** *and* **(2004d:00011)**
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Yamada, Yukio *see* **Martelli, Fabrizio et al., 2004f:78018**
Yashina, N. P. *see* **Kirilenko, A. A. et al., (2004i:00014)**
Zaccanti, Giovanni *see* **Martelli, Fabrizio et al., 2004f:78018**
Zakharov, E. V. *see* **Davydov, A. G. et al., 2004h:78016**
Zhu, Ning Yan *see* **Lyalinov, Mikhail A., 2004i:78014**
Zirilli, Francesco *see* **Recchioni, Maria Cristina, 2004i:78015**

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Collin, Robert E. *see* **Gardner, Judd S.**
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Dai, Zheng De Regularity of the attractor for the dissipative Hamiltonian amplitude equation governing modulated wave instabilities. (English summary) **2004j:37152**
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78A46 Inverse scattering problems

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Darrigrand, Eric *see* **Cakoni, Fioralba et al.**, **2004c:78019**

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Horowitz, Moshe *see* **Rosenthal, Amir**
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Seo, Jin Keun *see* **Ammari, Habib, 2004b:78014**
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78A55 Technical applications

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78A60 Lasers, masers, optical bistability, nonlinear optics [see also 81V80]

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Lefebvre, Erik *see* **Coulaud, Olivier et al.**
Lenhart, Suzanne *see* **Jung, Eunok et al., 2004c:78028**
Lippi, G. L. *see* **Kim, J.-H. R. et al.**
(Lisak, Mietek) *see* **West, Joseph O.**
Liu, Jinsong[1] *see* **Hao, Zhonghua**
Loginova, M. M. *see* **Varentsova, S. A. et al., 2004m:78032**
(Lundgren, L.) *see* **West, Joseph O.**
Maia Neto, P. A. *see* **Mazolli, A. et al., 2004m:78031**
Malomed, Boris A. *see* **Hudock, J. et al., 2004f:78033**
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Nussenzveig, H. M. *see* **Mazolli, A. et al., 2004m:78031**
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Roy Chowdhury, A. *see* **Mandal, Basanti**
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Sementsov, D. I. *see* **Zolotovskiĭ, I. O., 2004g:78031**
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Teismann, Holger *see* **Illner, Reinhard et al.**, **2004j:78020**
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Chung, Yeo Jin *see* **Peleg, Avner**, **2004j:35275**
Cohen, Leon Why do wave packets sometimes contract? (English summary) **2004b:81259**
Dennis, M. R. *see* **Berry, M. V.**, **2004g:78007**
Elgin, John N. *see* **Zhang, Shi-Chang**
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Fujioka, J. *see* **Espinosa-Cerón, A. et al.**, **2004k:35350**
Furuichi, Shigeru *see* **Obada, Abdel-Shafy F. et al.**
Gavrielides, Athanasios *see* **Pieroux, Didier et al.**
Gómez-Rodríguez, A. *see* **Espinosa-Cerón, A. et al.**, **2004k:35350**
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McLaughlin, Kenneth D. T.-R. *see* **Kamvissis, Spyridon et al.**, **2004h:37115**
McPhedran, R. C. *see* **Platts, S. B. et al.**, **2004h:74045**
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Min, M. S. (*with* Gottlieb, David) On the convergence of the Fourier approximation for eigenvalues and eigenfunctions of discontinuous problems. (English summary) **2004c:65078**
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Movchan, Alexander *see* **Platts, S. B. et al.**, **2004h:74045**
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Neshev, Dragomir *see* **Nikolov, Nikola I. et al.**
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Mefire, S. M. *see* **Alouges, François et al., 2004g:78034**

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Vogelius, Michael S. *see* **Ammari, Habib et al., 2004j:78025**

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"Accurate and efficient numerical integration of weakly singular integrals in Galerkin EFIE solutions" Errata to: "Accurate and efficient numerical integration of weakly singular integrals in Galerkin EFIE solutions" [IEEE Trans. Antennas and Propagation **51** (2003), no. 7, 1630–1637] by D. J. Taylor. **2004i:78028b**

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Poulsen, Sören Scattering from frequency selective surfaces: an efficient set of V-dipole basis functions. (English summary) **2004f:78038**

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Soppa, Mikhail Sergeevich *see* **Lavrent'ev, Mikhail Mikhaĭlovich et al., 2004j:78016**

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78M30 Variational methods

Items with secondary classifications in 78M30

De Simone, Antonio (*with* Kohn, Robert V.; Müller, Stefan C.; Otto, Felix) Repulsive interaction of Néel walls, and the internal length scale of the cross-tie wall. (English summary) **2004f:82080**

(Fikioris, George) *see* **Stoyanov, B. J., 2004m:78023**

Kohn, Robert V. *see* **De Simone, Antonio et al., 2004f:82080**

(Margetis, Dionisios) *see* **Stoyanov, B. J., 2004m:78023**

Müller, Stefan C. *see* **De Simone, Antonio et al., 2004f:82080**

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Pelinovsky, Dmitry E. (*with* Zharnitsky, Vadim) Averaging of dispersion-managed solitons: existence and stability. (English summary) **2004c:35391**

Savenko, P. O. Numerical solution of nonlinear problems of the synthesis of irradiating systems using the power criterion. (Ukrainian. English, Russian and Ukrainian summaries) **2004b:65216**

Stoyanov, B. J. Comment on: "Two-dimensional, highly directive currents on large circular loops" [J. Math. Phys. **41** (2000), no. 9, 6130–6172] by D. Margetis and G. Fikioris. (English summary) **2004m:78023**

Zharnitsky, Vadim *see* **Pelinovsky, Dmitry E., 2004c:35391**

78M35 Asymptotic analysis

Items with secondary classifications in 78M35

Babin, Anatolii V. (*with* Figotin, Alexander) Multilinear spectral decomposition for nonlinear Maxwell equations. (English summary) **2004c:78026**

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Erneux, Thomas *see* **Pieroux, Didier et al.**

Figotin, Alexander *see* **Babin, Anatolii V., 2004c:78026**

(Fikioris, George) *see* **Stoyanov, B. J., 2004m:78023**

Gavrielides, Athanasios *see* **Pieroux, Didier et al.**

Kohn, Robert V. *see* **De Simone, Antonio et al., 2004f:82080**

Kovanis, Vassilios *see* **Pieroux, Didier et al.**

(Margetis, Dionisios) *see* **Stoyanov, B. J., 2004m:78023**

Müller, Stefan C. *see* **De Simone, Antonio et al., 2004f:82080**

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Uecker, Hannes *see* **Schneider, Guido, 2004m:35259**

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78M50 Optimization

Hoppe, Ronald H. W. (*with* Petrova, Svetozara I.; Schulz, Volker) Primal-dual Newton-type interior-point method for topology optimization. (English summary) **2004m:78038**

Petrova, Svetozara I. *see* **Hoppe, Ronald H. W. et al., 2004m:78038**

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Grikurov, V. È. (*with* Heikkola, Erkki; Neittaanmäki, Pekka; Plamenevskiĭ, B. A.) On computation of scattering matrices and on surface waves for diffraction gratings. (English summary) **2004c:78018**

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Petrova, Svetozara I. *see* **Hoppe, Ronald H. W., 2004h:90070**

Plamenevskiĭ, B. A. *see* **Grikurov, V. È. et al., 2004c:78018**

Saridakis, Y. G. *see* **Zakynthinaki, M. S., 2004i:90097**

Semenov, S. Y. *see* **Abubakar, Aria et al., 2004f:78019**

Zakynthinaki, M. S. (*with* Saridakis, Y. G.) Stochastic optimization for adaptive real-time wavefront correction. (English summary) **2004i:90097**

78M99 None of the above, but in this section

Albanese, Raffaele (*with* Calabrò, G.; Lombardo, Giuseppe[2]; Reitano, G.; Fresa, R.; Morabito, P.) Error bounds for inverse electromagnetic problems in soil mechanics. (English summary)

Attimarad, G. V. *see* **De, Asok et al.**

Bao, Gang[1] (*with* Minut, Aurelia; Zhou, Zhengfang) An L^p estimate for Maxwell's equations with source term. (English and French summaries)

Calabrò, G. *see* **Albanese, Raffaele et al.**

De, Asok (*with* Attimarad, G. V.; Sharma, Jigyasa) Numerical analysis of the single step discontinuity in the two dimensional dielectric wave guide. (English summary)

Fresa, R. *see* **Albanese, Raffaele et al.**

Lombardo, Giuseppe[2] *see* **Albanese, Raffaele et al.**

Minut, Aurelia *see* **Bao, Gang[1] et al.**

Morabito, P. *see* **Albanese, Raffaele et al.**

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Zhou, Zhengfang *see* **Bao, Gang[1] et al.**

Items with secondary classifications in 78M99

Aruliah, D. A. (*with* Ascher, Uri M.) Multigrid preconditioning for Krylov methods for time-harmonic Maxwell's equations in three dimensions. (English summary) **2004a:65142**

Ascher, Uri M. *see* **Aruliah, D. A., 2004a:65142**

Baghai-Wadji, Alireza R. A symbolic procedure for the diagonalization of linear PDEs in accelerated computational engineering. (English summary) (*see* **2004j:00025**)

Benamou, Jean-David An introduction to Eulerian geometrical optics (1992–2002). (English summary) **2004j:78004**

Birgin, Ernesto G. (*with* Chambouleyron, Ivan E.; Martínez, José Mario) Optimization problems in the estimation of parameters of thin films and the elimination of the influence of the substrate. (English summary)

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Chambouleyron, Ivan E. *see* **Birgin, Ernesto G. et al.**

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Robinson, Allen C. *see* **Bochev, Pavel B. et al., 2004g:65173**

Romanov, V. G. An inverse problem of electrodynamics. (Russian) **2004e:35235**

Tuminaro, Raymond S. *see* **Bochev, Pavel B. et al., 2004g:65173**

80–XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 74A15.}

80–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 80–01

Parker, David F. ★ Fields, flows and waves. **2004b:74001**

80–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 80–02

Spanos, T. J. T. ★ The thermophysics of porous media. **2004j:76155**

80–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 80–03

Mackey, Michael C. ★ Time's arrow.
(Newton, Isaac) *see* **Simms, D. L., 2004m:01018**
Simms, D. L. Newton's contribution to the science of heat. (English summary) **2004m:01018**
Smith, Crosbie Force, energy, and thermodynamics. (*see* **2004g:01001**)

80–06 Proceedings, conferences, collections, etc.

(Greenwood, Geoffrey W.) *see* **Nucleation control**
(Greer, A. L.) *see* **Nucleation control**
(Herlach, D. M.) *see* **Nucleation control**
(Kelton, K. F.) *see* **Nucleation control**

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London ★ Nucleation control.
Nucleation control ★ Nucleation control.

Items with secondary classifications in 80–06

(Canright, David R.) *see* **Interfaces for the 21st century, 2004g:00023**
(Davis, Stephen H.) *see* **Interfaces for the 21st century, 2004g:00023**
(McFadden, Geoffrey B.) *see* **Interfaces for the 21st century, 2004g:00023**
(Miksis, Michael J.) *see* **Interfaces for the 21st century, 2004g:00023**
(Neitzel, G. Paul) *see* **Interfaces for the 21st century, 2004g:00023**
(Smith, Marc K.) *see* **Interfaces for the 21st century, 2004g:00023**
(Tarzia, Domingo Alberto) *see* **Seminar: Free Boundary Value Problems and their Applications, 2004b:35004**

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Festschrift:
Davis, Stephen H. ★ Interfaces for the 21st century. **2004g:00023**
Interfaces for the 21st century ★ Interfaces for the 21st century. **2004g:00023**
Monterey, CA ★ Interfaces for the 21st century. **2004g:00023**
Rosario ★ VI Seminario sobre Problemas de Frontera Libre y sus Aplicaciones. Part 3. [VI Seminar on Free Boundary Value Problems and their Applications. Part 3] **2004b:35004**
Seminar:
Free Boundary Value Problems and their Applications ★ VI Seminario sobre Problemas de Frontera Libre y sus Aplicaciones. Part 3. [VI Seminar on Free Boundary Value Problems and their Applications. Part 3] **2004b:35004**

80Axx Thermodynamics and heat transfer

80A05 Foundations

Belgiorno, F. Notes on the third law of thermodynamics. I. (English summary) **2004h:80001**
— Notes on the third law of thermodynamics. II. (English summary) **2004h:80002**
da Costa, Newton C. A. (*with* Sant'Anna, Adonai S.) Time in thermodynamics. (English summary) **2004a:80001**
Gruber, Christian (*with* Pache, Séverine) The controversial piston in the thermodynamic limit. (English summary) **2004d:80001**
Hager, Jörgen (*with* Whitaker, Stephen) The thermodynamic significance of the local volume averaged temperature. (English summary) **2004c:80001**
Lieb, Elliott H. (*with* Yngvason, Jakob) The entropy of classical thermodynamics. (English summary) **2004k:80001**
Martín-Olalla, José María (*with* Rey de Luna, Alfredo) Universal restrictions to the conversion of heat into work derived from the analysis of the Nernst theorem as a uniform limit. (English summary) **2004h:80003**
Müller, Ingo (*with* Reitebuch, D.; Weiss, Wolf) Extended thermodynamics—consistent in order of magnitude. (English summary) **2004e:80001**
Pache, Séverine *see* **Gruber, Christian, 2004d:80001**
Reitebuch, D. *see* **Müller, Ingo et al., 2004e:80001**
Rey de Luna, Alfredo *see* **Martín-Olalla, José María, 2004h:80003**
Sant'Anna, Adonai S. *see* **da Costa, Newton C. A., 2004a:80001**
Schulman, L. S. A compromised arrow of time. (English summary) **2004j:80001**
Ván, Peter Weakly nonlocal irreversible thermodynamics. (English summary) **2004c:80002**
Weiss, Wolf *see* **Müller, Ingo et al., 2004e:80001**
Whitaker, Stephen *see* **Hager, Jörgen, 2004c:80001**
Yngvason, Jakob *see* **Lieb, Elliott H., 2004k:80001**

Items with secondary classifications in 80A05

Arias-Hernández, L. A. (*with* Morales-Serrano, A. F.) Two quantum polytropic cycles. (English summary) (*see* **2004d:82002**)
Borchers, Ch. *see* **Borchers, H. J., 2004i:81279**
Borchers, H. J. (*with* Borchers, Ch.) The first law of thermodynamics and Dyson-Lieb's perpetuum mobile. (English summary) **2004i:81279**
Cohen, Ezechiel G. D. *see* **Rondoni, Lamberto, 2004e:82036**
Evans, Denis J. *see* **Mittag, Emil, 2004b:82024**
Giaquinta, Paolo V. *see* **Prestipino, Santi, 2004a:80003**
Hungerbühler, Norbert (*with* Struwe, Michael) A one-way function from thermodynamics and applications to cryptography.
Hutter, Kolumban (*with* Wang, Yongqi) Phenomenological thermodynamics and entropy principles. (English summary) **2004k:82081**
Maslov, V. P. Spectral series and quantization of thermodynamics. (English summary) **2004g:81132**
— (*with* Mishchenko, A. S.) Geometry of a Lagrangian manifold in thermodynamics (Principle of minimizing the thermodynamical potential and thermodynamical inequalities. Analysis of the Gibbs method of geometric picture of thermodynamics). (English summary) **2004m:53136**
Mishchenko, A. S. *see* **Maslov, V. P., 2004m:53136**
Mittag, Emil (*with* Evans, Denis J.) Time-dependent fluctuation theorem. (English summary) **2004b:82024**
Morales-Serrano, A. F. *see* **Arias-Hernández, L. A., (2004d:82002)**
Müller, Ingo Entropy: a subtle concept in thermodynamics. (English summary) **2004k:82051**
— Entropy in nonequilibrium. (English summary) **2004k:82052**
— Extended thermodynamics: a multifield theory par excellence. (English summary) **2004m:82141**
Prestipino, Santi (*with* Giaquinta, Paolo V.) The concavity of entropy and extremum principles in thermodynamics. (English summary) **2004a:80003**
Rondoni, Lamberto (*with* Cohen, Ezechiel G. D.) On some derivations of irreversible thermodynamics from dynamical systems theory. (English summary) **2004e:82036**
Struwe, Michael *see* **Hungerbühler, Norbert**
Uffink, Jos Irreversibility and the second law of thermodynamics. (English summary) **2004k:82083**
Vedral, Vlatko A thermodynamical formulation of quantum information. (English summary) (*see* **2004d:82002**)
Wang, Ji-Tao Nonequilibrium nondissipative thermodynamics—a new field of modern thermodynamics. (English summary) (*see* **2004i:00019**)
Wang, Yongqi *see* **Hutter, Kolumban, 2004k:82081**
Yi, Sang Wook Reduction of thermodynamics: a few problems. (English summary)

80A10 Classical thermodynamics, including relativistic

Alves, C. M. *see* **Toledo, E. M. et al.**
Chen, Masao R. Y. On the intrinsic geometric structure of extended irreversible thermodynamics. (English summary) **2004g:80001**
Cunat, Christian *see* **Rahouadj, Rachid et al., 2004g:80002**
Ganghoffer, Jean-François *see* **Rahouadj, Rachid et al., 2004g:80002**
Giaquinta, Paolo V. *see* **Prestipino, Santi, 2004a:80003**
Kuhl, Ellen (*with* Steinmann, Paul) Mass- and volume-specific views on thermodynamics for open systems. (English summary) **2004h:80004**
Levin, Yan Thermodynamics of surface tension: application to electrolyte solutions. (English summary) **2004b:80001**
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Lapin, A. V. *see* **Kadyrov, R. F. et al., 2004j:49061**; **Dautov, R. Z. et al., 2004k:80016**; **Ignat'eva, M. A., 2004m:80015** *and* **Laitinen, Erkki J. et al., 2004m:80019**
Lee, Hyun Young *see* **Ohm, Mi Ray et al., 2004g:80014**
Lee, Ki-Ahm *see* **Daskalopoulos, Panagiota, 2004m:35283**
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Pieskä, J. *see* **Dautov, R. Z. et al., 2004k:80016** *and* **Laitinen, Erkki J. et al., 2004m:80019**
Rajagopal, Kumbakonam R. *see* **Kannan, K., 2004m:74004**
Rappaz, Jacques *see* **Burman, Erik, 2004k:35170**
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Salsa, Sandro *see* **Athanasopoulos, I. et al., 2004e:35238**
Salvatori, M. C. *see* **De Lillo, S., 2004k:35417**
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— *see also* **Hilhorst, Danielle et al., 2004i:35322**
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80A30 Chemical kinetics [see also 76V05, 92C45, 92E20]

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80M35 Asymptotic analysis

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80M40 Homogenization

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81–XX Quantum theory

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Kutasov, David Introduction to little string theory. (English summary) **2004i:81201**
Langmann, Edwin *see* **Carey, Alan L.**, **2004b:81106**
van Lankvelt, Frank J. M. *see* **Schoutens, Kareljan et al.**, (**2004e:82003**)
Lazaroiu, Calin I. D-brane categories. (English summary) **2004j:81147**
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Lemm, Jörg C. ★ Bayesian field theory. (English summary) **2004f:62009**
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— A talk on quantum cryptography or how Alice outwits Eve. (English summary) (*see* **2004h:81070**)
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López-Osorio, M. A. (*with* Martínez-Pascual, E.; Toscano, J. J.) Some comments on unitarity gauge. (English and Spanish summaries) **2004m:81155**
Maassen, Hans Quantum probability applied to the damped harmonic oscillator. (English summary) **2004m:81139**
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Maldacena, Juan Large N field theories, string theory and gravity. (English summary) **2004g:81219b**
— Les Houches lectures on large N field theories and gravity. (English summary) **2004h:81199**
Mann, Ady *see* **Revzen, M. et al.**, (**2004j:81004**)
Marinatto, Luca *see* **Ghirardi, GianCarlo**, **2004d:81016**
Marolf, Donald Resource letter NSST-1: the nature and status of string theory. (English summary)
Marshakov, Andrei On associativity equations. (Russian. Russian summary) **2004b:81063**
Martínez-Pascual, E. *see* **López-Osorio, M. A. et al.**, **2004m:81155**
Mattis, Michael P. *see* **Dorey, Nick et al.**, **2004c:81163**
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Missarov, M. D. Renormalization group solution of fermionic Dyson model. (English summary) **2004g:81162**
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Mosca, Michele *see* **Brassard, Gilles et al.**, **2004a:81048**
Moschella, Ugo Anti-de Sitter quantum field theory and the AdS-CFT correspondence. (English summary) **2004j:81097**
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Moshe, Moshe (*with* Zinn-Justin, Jean) Quantum field theory in the large N limit: a review. (English summary)
Mostafazadeh, Ali *see* **Bohm, Arno R. et al.**, **2004h:81109**
Müller, Volkhard F. Perturbative renormalization by flow equations. (English summary) **2004g:81163**
Muratore-Ginanneschi, P. Path integration over closed loops and Gutzwiller's trace formula. (English summary) **2004g:81060**
Myrgren, S. *see* **Hsieh, Michael M. et al.**
Naganuma, Masashi *see* **Arai, Masato et al.**, (**2004j:81004**)
Nair, V. P. Yang-Mills theory in $(2 + 1)$ dimensions. (English summary) **2004f:81150**
Nakamura, Koichi[2] *see* **Revzen, M. et al.**, (**2004j:81004**)
Nekrasov, Nikita A. Lectures on open strings, and noncommutative gauge theories. (English summary) **2004j:81198**
Nesti, F. *see* **Bonelli, Giulio et al.**, (**2004g:83002**)
Nitta, Muneto *see* **Arai, Masato et al.**, (**2004j:81004**)
Niu, Qian *see* **Bohm, Arno R. et al.**, **2004h:81109**
Ohya, Masanori *see* **Inoue, Kei et al.**, (**2004e:81004**)
Onishi, T. *see* **Shudo, Akira et al.**, (**2004c:81004**)
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Quella, Thomas (*with* Schomerus, Volker) Asymmetrically gauged WZNW models. (English summary)
Quevedo, Fernando Lectures on string/brane cosmology. (English summary) **2004e:83109**
Rabinovici, Eliezer Aspects of string motion in time-dependent backgrounds. (English summary)
— *see also* **Giveon, Amit et al.**, **2004h:81193** *and* **Berman, David S.**, **2004m:81238**
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Ramond, Pierre Dirac's footsteps and supersymmetry. (English summary) (*see* **2004k:81004**)
Rastelli, Leonardo (*with* Sen, Ashoke; Zwiebach, Barton) Vacuum string field theory. (English summary) **2004h:81202**
— Open string fields and D-branes. (English summary)
Rebhan, Anton *see* **Kraemmer, U.**, **2004k:81413**
Recknagel, Andreas On permutation branes. (English summary)
Resco, Pedro *see* **Gómez, César**, **2004e:81131**
Revzen, M. (*with* Nakamura, Koichi[2]; Mann, Ady) The Lorentz force and the Casimir force at finite temperature and Casimir entropy. (English summary) (*see* **2004j:81004**)
Rossi, Michele *see* **Grassi, Antonella**, **2004b:81195**
Runkel, Ingo *see* **Fuchs, Jürgen et al.**, (**2004e:82003**)
Sagnotti, Augusto Open-string models with broken supersymmetry. (English summary) (*see* **2004e:82003**)
— *see also* **Francia, Dario**, **2004f:81148** *and* **Angelantonj, Carlo**, **2004g:81175**
Sakai, Norisuke *see* **Arai, Masato et al.**, (**2004j:81004**)
Saleur, Hubert *see* **Caux, Jean-Sébastien et al.**, (**2004e:82003**)
Sanchez, Norma G. Advances in string theory in curved backgrounds: a synthesis report. (English summary)
Schomerus, Volker Lectures on branes in curved backgrounds. (English summary) **2004e:81157**
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Schwarz, John H. Recent progress in superstring theory. (English summary) **2004g:81231**
Schweigert, Christoph *see* **Fuchs, Jürgen et al.**, (**2004e:82003**)
Sedrakyan, Ara G. Integrable chain models with staggered R-matrices. (English summary) (*see* **2004e:82003**)
Semenoff, Gordon W. DLCQ strings and branched covers of torii. (English summary) **2004f:81193**
— (*with* Zarembo, Konstantin) Wilson loops in SYM theory: from weak to strong coupling. (English summary) **2004e:81197**
Sen, Ashoke Tachyons in string theory. (English summary)
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Sever, Amit *see* **Giveon, Amit et al.**, **2004h:81193**
Sharpe, Eric R. Discrete torsion, quotient stacks, and string orbifolds. **2004i:81209**
Sheftel, M. B. (*with* Tempesta, P.; Winternitz, Pavel) Lie symmetries and superintegrability in quantum mechanics. (English summary) **2004a:81114**
Sheikh-Jabbari, Mohammad M. Noncommutative string and field theories, a review of the status. (English summary) **2004g:81297**
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Siano, Francesco *see* **Caux, Jean-Sébastien et al.**, (**2004e:82003**)
Siegel, Warren *see* **Hatsuda, Machiko**, (**2004j:81004**)
Singleton, Douglas Alexander Magnetic charge and other exotic field configurations. (English summary) **2004c:81166**
Si Si *see* **Hida, Takeyuki**, (**2004j:81004**)
Skenderis, Kostas Lecture notes on holographic renormalization. (English summary) **2004b:81118**
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Slavnov, A. A. Progress in study of renormalization of theories with nontrivial internal symmetry. (English summary)
Strassler, Matthew J. On confinement and duality. (English summary) **2004g:81271**
Streit, Ludwig Feynman paths, sticky walls, white noise. (*see* **2004j:81004**)
Strominger, Andrew *see* **Britto-Pacumio, Ruth A. et al.**, **2004g:83046**
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Takács, Gabor *see* **Bajnok, Zoltan et al.**, (**2004e:82003**)
Takahashi, Kin'ya *see* **Shudo, Akira et al.**, (**2004e:81004**)
Tapp, Alain *see* **Brassard, Gilles et al.**, **2004a:81048**
Tateo, Roberto *see* **Dorey, Patrick et al.**, (**2004e:82003**)
Taylor, Marika *see* **Skenderis, Kostas**, **2004g:81234**
Tempesta, P. *see* **Sheftel, M. B. et al.**, **2004a:81114**
Terna, S. *see* **Bonelli, Giulio et al.**, (**2004g:83002**)
Tian, Gang Analytic aspects of Yang-Mills fields. (English summary) (*see* **2004j:65009**)
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Tsvelik, Alexei M. Lectures on conformal field theory. (English summary) (*see* **2004d:81002**)
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Verlinde, Erik CFT & FRW. **2004c:81242**
Volovich, Anastasia *see* **Britto-Pacumio, Ruth A. et al.**, **2004g:83046**
Volovich, Igor V. *see* **Inoue, Kei et al.**, (**2004e:81004**)
Vourdas, A. Quantum systems with finite Hilbert space. (English summary) **2004m:81141**
Wadati, Miki *see* **Hikami, Kazuhiro**, **2004h:81115**
Werner, Reinhard F. *see* **Keyl, Michael**, (**2004e:81003**)
Whaley, K. Birgitta *see* **Hsieh, Michael M. et al.**
Wilczek, Frank QCD and natural philosophy. (English summary)
Winternitz, Pavel *see* **Sheftel, M. B. et al.**, **2004a:81114**
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Zuber, Jean-Bernard *see* **Petkova, Valentina B.**, (**2004e:82003**)
Zwanziger, J. *see* **Bohm, Arno R. et al.**, **2004h:81109**
Zwiebach, Barton *see* **Rastelli, Leonardo et al.**, **2004h:81202**

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Veltman, Martinus J. G. Reconsideration of a question posed by Frank Yang at the 1973 Bonn conference. (*see* **2004j:00037**)
Walther, Thomas *see* **Fry, Edward S.**, (**2004f:81046**)
Wilczek, Frank A piece of magic. The Dirac equation. (*see* **2004g:00013**)
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Bernstein, Jeremy The drawing or why history is not mathematics. (English summary) **2004h:01023**
(Bertlmann, Reinhold A.) *see* **Quantum [un]speakables**, **2004f:81046**
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Eckert, Michael Plasmas and solid-state science. (*see* **2004g:01001**)
(Einstein, Albert) *see* **Lehti, Raimo**
(Ezawa, Hiroshi) *see* **Watanabe, Keiji**, (**2004j:81004**)
(Farmelo, Graham) *see* **It must be beautiful**, **2004g:00013**
Franklin, Allan Doing much about nothing.
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Greenberger, Daniel M. The history of the GHZ paper. (*see* **2004f:81046**)
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Halpern, Leopold From reminiscences to outlook. (*see* **2004k:81004**)
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(Hilbert, David[1]) *see* **Schirrmacher, Arne**, **2004c:01041**
Hokkyo, Noboru Feynman's proof of Maxwell equations and Yang's unification of electromagnetic and gravitational Aharonov-Bohm effects. (English summary) **2004k:81021**
Hong, Sungook Theories and experiments on radiation from Thomas Young to X rays. (*see* **2004g:01001**)
't Hooft, Gerard A confrontation with infinity. (*see* **2004d:00016**)
Horváthy, P. A. Mathisson's spinning electron: noncommutative mechanics and exotic Galilean symmetry, 66 years ago. (English summary) **2004g:81050**
Jackiw, Roman W. John Bell's observations on the chiral anomaly and some properties of its descendants. (*see* **2004f:81046**)
Kastler, Daniel Rudolf Haag—eighty years.
Ketner, Kenneth Laine *see* **Beil, R. G.**, **2004i:81089**
Klauder, John R. The Feynman path integral: an historical slice. (English summary) (*see* **2004j:81004**)
Kochen, Simon *see* **Conway, John Horton**, (**2004f:81046**)
Lacki, Jan Styles of physical thinking versus mathematical ones. **2004c:00005**
(Lanczos, Cornelius) *see* **Sachs, Mendel**, **2004d:01038**
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Ne'eman, Yuval Symmetry as the Leitmotif at the fundamental level in the twentieth century physics. (English summary)
(von Neumann, John) *see* **Bub, Jeffrey**, (**2004j:81006**) *and* **Rédei, Miklós**, (**2004j:81006**)
Plotnitsky, Arkady Nonclassical epistemology and irreducible probability in quantum mechanics. (English summary) (*see* **2004j:81003**)
Rajaraman, Ramamurti Fractional charge. (*see* **2004f:81046**)
Rédei, Miklós von Neumann's concept of quantum logic and quantum probability. (*see* **2004j:81006**)
Redhead, Michael L. G. *see* **Massimi, Michela**
Sachs, Mendel Cornelius Lanczos—discoveries in the quantum and general relativity theories. (English summary) **2004d:01038**
Saunders, Simon Critical notice: T. Y. Cao's *The conceptual development of 20th century field theories* [Cambridge Univ. Press, Cambridge, 1997; MR 99d:81001]. (*see* **2004i:81258**)
Schirrmacher, Arne Planting in his neighbor's garden: David Hilbert and early Göttingen quantum physics. (English summary) **2004c:01041**
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Summers, Stephen J. On the Stone-von Neumann uniqueness theorem and its ramifications. (*see* **2004j:81006**)
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(Zeilinger, Anton) *see* **Quantum [un]speakables**, **2004f:81046**
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Death of Bell, John Stewart ★ Quantum [un]speakables. **2004f:81046**
Bibliography:
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Ezawa, Hiroshi *see* **Watanabe, Keiji**, (**2004j:81004**)
Lanczos, Cornelius *see* **Sachs, Mendel**, **2004d:01038**
Van Hove, Léon ★ The legacy of Léon Van Hove. **2004g:01047**
Birthday:
Haag, Rudolf *see* **Kastler, Daniel**
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Jeffrey, Evan *see* **Peters, Nicholas et al., 2004k:81100**
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Mathis, Wolfgang *see* **Zou, Xu Bo**
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Pan, Jian-Wei *see* **Brukner, Časlav et al., 2004k:81040**
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Robert, Jacques *see* **Durt, Thomas et al.,** (**2004g:81007**)
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Salgado, D. *see* **Ferrero Melgar, Miguel et al.**
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81–06 Proceedings, conferences, collections, etc.

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(Ablowitz, Mark J.) *see* **Nonlinear physics: theory and experiment, 2004i:81006**
(Accardi, Luigi) *see* **Fundamental aspects of quantum physics, 2004e:81004**
(Ahluwalia, Dharam Vir) *see* **Zacatecas Physics Forum 2002: Quantum states of fuzzy spins and masses**
(Arafune, J.) *see* **Garden of quanta, 2004j:81004**
(Arai, Asao) *see* **Garden of quanta, 2004j:81004**
(Arnaudon, Daniel) *see* **Special Issue: Recent advances in the theory of quantum integrable systems**
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— *see also* **Proceedings: Dirac Centennial Symposium, 2004k:81004**
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Belyaev, A. S. *see* **Proceedings: Dirac Centennial Symposium, 2004k:81004** *and* **Baer, Howard, 2004k:81004**
(Benton, Charles V.) *see* **Mathematical physics research on the leading edge**
(Bilal, Adel) *see* **Unity from duality: gravity, gauge theory and strings, 2004d:81004**
(Billó, Marco) *see* **Proceedings: Workshop on the Quantum Structure of Spacetime** *and* **Supergravity and gauge theories**
(Boiti, M.) *see* **Nonlinear physics: theory and experiment, 2004i:81006**
(Brandt, Howard E.) *see* **Special Issue: Quantum computing and the Feynman Festival**
(Bub, Jeffrey) *see* **Quantum information and computation**
(Buchleitner, A.) *see* **Coherent evolution in noisy environments, 2004e:81003**
(Butterfield, Jeremy) *see* **Non-locality and modality, 2004h:81004**
(Bytsenko, A. A.) *see* **Proceedings: School on Mathematical Methods in Physics**
(Cardona, Alexander) *see* **Geometric and topological methods for quantum field theory, 2004d:81003**
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(Dirac, Paul Adrien Maurice) *see* **Proceedings: Dirac Centennial Symposium, 2004k:81004**
(Douglas, Michael R.) *see* **Unity from duality: gravity, gauge theory and strings, 2004d:81004**
(Duff, Michael J.) *see* **2001: a spacetime odyssey**
(Dvoeglazov, V. V.) *see* **Higher spins, QCD and beyond**
(Ezawa, Hiroshi) *see* **Garden of quanta, 2004j:81004**
(Faraggi, Alon E.) *see* **Conference: String Phenomenology, 2004d:81001**
(Ferrero Melgar, Miguel) *see* **Conference: Quantum Information, Conceptual Foundations, Developments and Perspectives**
(Feynman, Richard) *see* **Special Issue: Quantum computing and the Feynman Festival**
(Flohr, M. A. I.) *see* **Proceedings: School and Workshop on Logarithmic Conformal Field Theory and its Applications**
(Frappat, L.) *see* **Special Issue: Recent advances in the theory of quantum integrable systems**
(Frau, Marialuisa) *see* **Supergravity and gauge theories**
(Fuchs, Christopher A.) *see* **Quantum information and computation**
(Griguolo, Luca) *see* **Light-cone physics: particles and strings**
(Guerra, Francesco) *see* **De Martino, Salvatore et al.**
(Guimarães, M. E. X.) *see* **Proceedings: School on Mathematical Methods in Physics**
(Henneaux, Marc) *see* **Proceedings: Workshop on the Quantum Structure of Spacetime**
(Hinds, E. A.) *see* **Practical realizations of quantum information processing**
(Hornberger, K.) *see* **Coherent evolution in noisy environments, 2004e:81003**
(Ibarra, Alejandro) *see* **Conference: String Phenomenology, 2004d:81001**
(Khrennikov, A. Yu.) *see* **Foundations of probability and physics, 2004j:81003**
(Kim, Young Suh) *see* **Special Issue: Quantum computing and the Feynman Festival**
(Kirchbach, Mariana) *see* **Zacatecas Physics Forum 2002: Quantum states of fuzzy spins and masses**
(Knight, P. L.) *see* **Practical realizations of quantum information processing**
(Kobayashi, Makoto) *see* **Garden of quanta, 2004j:81004**
(Kruglov, S. I.) *see* **Higher spins, QCD and beyond**
(Kuhlmann, Meinard) *see* **Ontological aspects of quantum field theory, 2004a:81002**
(Latal, Heimo G.) *see* **Methods of quantization, 2004c:81002**
(Lerda, Alberto) *see* **Supergravity and gauge theories**
(Li, Miao¹) *see* **Physics in non-commutative world, 2004h:81005**
(Liu, James T.) *see* **2001: a spacetime odyssey**
(Lizzi, Fedele) *see* **Spacetime and fundamental interactions**
(Lo, Hoi-Kwong) *see* **Conference: Quantum Communication, Measurement and Computing**
Loffredo, Mariella *see* **De Martino, Salvatore et al.**
(Lyre, Holger) *see* **Ontological aspects of quantum field theory, 2004a:81002**
(Man'ko, Margarita A.) *see* **Special Issue: Quantum computing and the Feynman Festival**
(Marinari, Enzo) *see* **Special Issue: Statistical physics of disordered systems: from real materials to optimization and codes**
(Marmo, Giuseppe) *see* **Spacetime and fundamental interactions**
(Nakamura, Koichi²) *see* **Garden of quanta, 2004j:81004**
(Nakamura, Toru) *see* **Garden of quanta, 2004j:81004**
(Nardelli, Giuseppe) *see* **Light-cone physics: particles and strings**
(Nekrasov, Nikita A.) *see* **Unity from duality: gravity, gauge theory and strings, 2004d:81004**
(von Neumann, John) *see* **John von Neumann and the foundations of quantum physics, 2004j:81006**
(Nishimori, Hidetoshi) *see* **Special Issue: Statistical physics of disordered systems: from real materials to optimization and codes**
(Ocampo, Hernan) *see* **Geometric and topological methods for quantum field theory, 2004d:81003**
(Odintsov, Sergei D.) *see* **Proceedings: School on Mathematical Methods in Physics**
(Ojima, Izumi) *see* **Garden of quanta, 2004j:81004**
(O'Raifeartaigh, L.) *see* **Proceedings: School and Workshop on Logarithmic Conformal Field Theory and its Applications**
(Paycha, Sylvie) *see* **Geometric and topological methods for quantum field theory, 2004d:81003**
(Pempinelli, F.) *see* **Nonlinear physics: theory and experiment, 2004i:81006**
(Pesando, Igor) *see* **Supergravity and gauge theories**
(Placek, Tomasz) *see* **Non-locality and modality, 2004h:81004**
(Plenio, Martin B.) *see* **Practical realizations of quantum information processing**
(Plümacher, M.) *see* **Conference: String Phenomenology, 2004d:81001**
(Prinari, B.) *see* **Nonlinear physics: theory and experiment, 2004i:81006**
(Ragoucy, É.) *see* **Special Issue: Recent advances in the theory of quantum integrable systems**
(Rédei, Miklós) *see* **John von Neumann and the foundations of quantum physics, 2004j:81006**
(Ricci-Tersenghi, Federico) *see* **Special Issue: Statistical physics of disordered systems: from real materials to optimization and codes**
(Rouhani, S.) *see* **Proceedings: School and Workshop on Logarithmic Conformal Field Theory and its Applications**
Ruggiero, Patrizia *see* **De Martino, Salvatore et al.**
(Sakai, Norisuke) *see* **Garden of quanta, 2004j:81004**
(Sarkar, Sarben) *see* **Exotic states in quantum nanostructures, 2004d:81002**
(Schweiger, W.) *see* **Methods of quantization, 2004c:81002**
(Sciuto, Stefano) *see* **Supergravity and gauge theories**
(Sevrin, Alexander) *see* **Proceedings: Workshop on the Quantum Structure of Spacetime**
(Shapiro, Jeffrey H.) *see* **Conference: Quantum Communication, Measurement and Computing**
(Sparano, Giovanni) *see* **Spacetime and fundamental interactions**
(Stöltzner, Michael) *see* **John von Neumann and the foundations of quantum physics, 2004j:81006**
(Tasaki, Shuichi) *see* **Fundamental aspects of quantum physics, 2004e:81004**
(Taylor, John Clayton) *see* **Gauge theories in the twentieth century, 2004j:81005**
(Theisen, Stefan) *see* **Proceedings: Workshop on the Quantum Structure of Spacetime**
(Toffoli, Tommaso) *see* **Digital perspectives**
(Tonomura, A.) *see* **Garden of quanta, 2004j:81004**
(Troost, W.) *see* **Proceedings: Workshop on the Quantum Structure of Spacetime**
(Vandoren, Stefan) *see* **Proceedings: Workshop on the Quantum Structure of Spacetime**

(Van Proeyen, Antoine) *see* **Proceedings: Workshop on the Quantum Structure of Spacetime**
(Vian, Federica) *see* **Light-cone physics: particles and strings**
(Vilasi, Gaetano) *see* **Spacetime and fundamental interactions**
(Watanabe, Keiji) *see* **Garden of quanta, 2004j:81004**
(Wayne, Andrew) *see* **Ontological aspects of quantum field theory, 2004a:81002**
(Wu, Yong Shi[1]) *see* **Physics in non-commutative world, 2004h:81005**

Items listed otherwise than by author

2001: a spacetime odyssey ★ 2001: a spacetime odyssey.
Ann Arbor, MI ★ 2001: a spacetime odyssey.
Annecy-le-vieux ★ Special issue on recent advances in the theory of quantum integrable systems.
Arlington, VA ★ Digital perspectives.
Berlin-Schmöckwitz ★ Proceedings of the 35th International Symposium Ahrenshoop on the Theory of Elementary Particles.
Bielefeld ★ Ontological aspects of quantum field theory. **2004a:81002**
Budapest ★ John von Neumann and the foundations of quantum physics. **2004j:81006**
Cambridge, MA ★ {Sixth International Conference on Quantum Communication, Measurement and Computing (QCMC'02)}.
Coherent evolution in noisy environments ★ Coherent evolution in noisy environments. **2004e:81003**
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Dresden ★ Coherent evolution in noisy environments. **2004e:81003**
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Garden of quanta ★ A garden of quanta. **2004j:81004**
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Geometric and topological methods for quantum field theory ★ Geometric and topological methods for quantum field theory. **2004d:81003**
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Leuven ★ Proceedings of the European Workshop on the Quantum Structure of Spacetime.
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Non-locality and modality ★ Non-locality and modality. **2004h:81004**
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Ontological aspects of quantum field theory ★ Ontological aspects of quantum field theory. **2004a:81002**
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School:
  Theoretical Physics ★ Unity from duality: gravity, gauge theory and strings. **2004d:81004**
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  Quantum computing and the Feynman Festival ★ Special issue on quantum computing and the Feynman Festival.
  Recent advances in the theory of quantum integrable systems ★ Special issue on recent advances in the theory of quantum integrable systems.
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Trento ★ Light-cone physics: particles and strings.
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Turin ★ Supergravity and gauge theories.
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Villa de Leyva ★ Geometric and topological methods for quantum field theory. **2004d:81003**
Workshop:
  Quantum Open Systems, Quantum Chaos and Quantum Measurement ★ Fundamental aspects of quantum physics. **2004e:81004**
  Time Asymmetric Quantum Theory ★ {Fourth and Fifth Workshop on Time Asymmetric Quantum Theory}.
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Items with secondary classifications in 81–06

(Aerts, Diederik) *see* **Probing the structure of quantum mechanics, 2004g:81007**
(Araki, Huzihiro) *see* **Dedicated to Rudolf Haag**
(Attal, Stéphane) *see* **Quantum probability communications, 2004i:81137** *and* **2004i:81138**
(Bandrauk, André D.) *see* **Quantum control: mathematical and numerical challenges, 2004j:00023**
(Baulieu, Laurent) *see* **Progress in string theory and M-theory, 2004d:81111**
(Bell, John Stewart) *see* **Quantum [un]speakables, 2004f:81046**
(Berman, Stephen) *see* **Vertex operator algebras in mathematics and physics, 2004g:00021**
(Bertlmann, Reinhold A.) *see* **Quantum [un]speakables, 2004f:81046**
(Billig, Yu. V.) *see* **Vertex operator algebras in mathematics and physics, 2004g:00021**
(Bouwmeester, Dirk) *see* **Physics of quantum information, 2004d:81028**
(Brylinski, Ranee K.) *see* **Mathematics of quantum computation, 2004d:81027**
(Buchholz, Detlev) *see* **Dedicated to Rudolf Haag**
(Cao, Tian Yu) *see* **Structural realism and quantum field theory, 2004i:81258**
(Chen, Goong) *see* **Mathematics of quantum computation, 2004d:81027**
(Clifton, Robert K.) *see* **Dieks, Dennis et al.**
(Combes, Jean-Michel) *see* **Operator algebras and mathematical physics, 2004f:00018**
(Cuntz, Joachim) *see* **Operator algebras and mathematical physics, 2004f:00018**
(Czachor, Marek) *see* **Probing the structure of quantum mechanics, 2004g:81007**
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(Ekert, Artur K.) *see* **Physics of quantum information, 2004d:81028**
(Elliott, George A.) *see* **Operator algebras and mathematical physics, 2004f:00018**
(Fiziev, P. P.) *see* **Gravity, astrophysics, and strings@the Black Sea, 2004d:83002**
(Fokas, Athanassios S.) *see* **Highlights of mathematical physics, 2004d:00016**
(Fradkin, Efim Samoilovich) *see* **Quantization, gauge theory, and strings, 2004d:00026** *and* **2004e:00015**
(Fredenhagen, Klaus) *see* **Dedicated to Rudolf Haag**
(Freudenberg, Wolfgang) *see* **Quantum probability and infinite dimensional analysis, 2004e:00014**
(Goldhaber, Alfred Scharff) *see* **Symmetry & modern physics, 2004j:00037**
(Green, Michael B.) *see* **Progress in string theory and M-theory, 2004d:81111**
(Greenberger, Daniel M.) *see* **Special Issue: Dedicated to David Mermin**
(Haag, Rudolf) *see* **Dedicated to Rudolf Haag**
(Halliwell, Jonathan) *see* **Highlights of mathematical physics, 2004d:00016**
(Harnad, John) *see* **Symmetry in physics, 2004k:00026**
(Hiai, Fumio) *see* **Proceedings: Workshop on Quantum Probability and Quantum Information, 2nd Sendai**

(Huang, Yi-Zhi) *see* **Vertex operator algebras in mathematics and physics**, 2004g:00021
(Karasev, Mikhail) *see* **Asymptotic methods for wave and quantum problems**, 2004c:00009
(Kibble, T.) *see* **Highlights of mathematical physics**, 2004d:00016
(Kuchment, Peter) *see* **Waves in periodic and random media**, 2004j:00029
(Lam, Chi-Sing) *see* **Symmetry in physics**, 2004k:00026
Lamb, Willis E., Jr. ★ The interpretation of quantum mechanics. **2004e:81009**
(Le Bris, Claude) *see* **Quantum control: mathematical and numerical challenges**, 2004j:00023
(Lepowsky, James) *see* **Vertex operator algebras in mathematics and physics**, 2004g:00021
(Lindsay, J. Martin) *see* **Quantum probability communications**, 2004i:81137 *and* 2004i:81138
van Lith, Janneke *see* **Dieks, Dennis et al.**
(Lomonaco, Samuel J., Jr.) *see* **Quantum computation: a grand mathematical challenge for the twenty-first century and the millennium**, 2004h:81070
Lubberdink, Andrea *see* **Dieks, Dennis et al.**
(Maeda, Kei-ichi) *see* **Brane world: new perspective in cosmology**
(Maeda, Yoshiaki) *see* **Noncommutative geometry and string theory**, 2004h:00024
(Mehra, Jagdish) *see* **Lamb, Willis E., Jr.**, 2004e:81009
(Mermin, N. David) *see* **Special Issue: Dedicated to David Mermin**
(Muga, J. G.) *see* **Time in quantum mechanics**, 2004c:81011
(Nath, Pran) *see* **SUGRA20**, 2004m:83003
(Nenciu, Gheorghe) *see* **Operator algebras and mathematical physics**, 2004f:00018
(van Nieuwenhuizen, Peter) *see* **Symmetry & modern physics**, 2004j:00037
(Obata, Nobuaki) *see* **Proceedings: Workshop on Quantum Probability and Quantum Information, 2nd Sendai**
(Olariu, Stephan) *see* **Quantum computing**
(Ozawa, Masanao) *see* **Proceedings: Workshop on Quantum Probability and Quantum Information, 2nd Sendai**
(Patera, Jiří) *see* **Symmetry in physics**, 2004k:00026
(Peres, Asher) *see* **Special Issue: Dedicated to David Mermin**
(Picco, Marco) *see* **Progress in string theory and M-theory**, 2004d:81111
(Picken, Roger) *see* **Proceedings: Meeting on Geometry, Topology and Physics**
(Sala, R.) *see* **Time in quantum mechanics**, 2004c:81011
(Sasaki, Misao) *see* **Brane world: new perspective in cosmology**
(Semikhatov, A. M.) *see* **Quantization, gauge theory, and strings**, 2004d:00026 *and* 2004e:00015
(Sharp, Robert T.) *see* **Symmetry in physics**, 2004k:00026
(Sheehan, Daniel P.) *see* **Quantum limits to the second law**, 2004d:82002
(Shimony, Abner) *see* **Special Issue: Dedicated to David Mermin**
(Shrock, Robert) *see* **Symmetry & modern physics**, 2004j:00037
(Siedentop, Heinz) *see* **Operator algebras and mathematical physics**, 2004f:00018
(Smith, John) *see* **Symmetry & modern physics**, 2004j:00037
(Sterman, G.) *see* **Symmetry & modern physics**, 2004j:00037
(Strătilă, Şerban) *see* **Operator algebras and mathematical physics**, 2004f:00018
(Todorov, M. D.) *see* **Gravity, astrophysics, and strings@the Black Sea**, 2004d:83002
(Tsou, Sheung Tsun) *see* **Proceedings: Meeting on Geometry, Topology and Physics**
Uffink, Jos *see* **Dieks, Dennis et al.**
(Vasil′ev, M. A.) *see* **Quantization, gauge theory, and strings**, 2004d:00026 *and* 2004e:00015
(Watamura, Satoshi) *see* **Noncommutative geometry and string theory**, 2004h:00024
(Weisberger, W.) *see* **Symmetry & modern physics**, 2004j:00037
(Windey, Paul) *see* **Progress in string theory and M-theory**, 2004d:81111
(Winternitz, Pavel) *see* **Symmetry in physics**, 2004k:00026
(Yang, Chen Ning) *see* **Symmetry & modern physics**, 2004j:00037
(Zaikin, V. N.) *see* **Quantization, gauge theory, and strings**, 2004d:00026 *and* 2004e:00015
(Zegarliński, Bogusław) *see* **Highlights of mathematical physics**, 2004d:00016
(Zeilinger, Anton) *see* **Physics of quantum information**, 2004d:81028 *and* **Quantum [un]speakables**, 2004f:81046

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Biography:
Lamb, Willis E., Jr. *see* **Lamb, Willis E., Jr.**, 2004e:81009
Boston, MA ★ SUGRA20. **2004m:83003**
Brane world: new perspective in cosmology ★ Brane world: new perspective in cosmology.
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Burg ★ Quantum probability and infinite dimensional analysis. **2004e:00014**
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Collected Works:
Lamb, Willis E., Jr. *see* **Lamb, Willis E., Jr.**, 2004e:81009
Congress:
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Constanţa ★ Operator algebras and mathematical physics. **2004f:00018**
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Quantum limits to the second law ★ Quantum limits to the second law. **2004d:82002**
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Time in quantum mechanics ★ Time in quantum mechanics. **2004c:81011**
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Waves in periodic and random media ★ Waves in periodic and random media. **2004j:00029**
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Relativistic and Cosmological Aspects of the Brane World ★ Brane world: new perspective in cosmology.
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81–08 Computational methods

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García Canal, C. A. *see* **Epele, L. N. et al., 2004g:81058**
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Kutzelnigg, Werner *see* **Cancès, Eric et al.**
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Maday, Yvon *see* **Cancès, Eric et al.**
Marucho, Marcelo *see* **Epele, L. N. et al., 2004g:81058**
Monovasilis, Th. *see* **Kalogiratou, Z. et al.**
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Simos, T. E. *see* **Avdelas, G. et al., 2004a:65075** *and* **Kalogiratou, Z. et al.**
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81Pxx Axiomatics, foundations, philosophy

81P05 General and philosophical

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(Akhavan, O.) *see* **Struyve, W. et al., 2004b:81006**
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81P15 Quantum measurement theory

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Beneduci, Roberto (*with* Nisticò, Giuseppe) Sharp reconstruction of unsharp quantum observables. (English summary) **2004h:81018**
Berardi, V. *see* **Garuccio, A.**, **2004d:81015**
Bergou, János A. (*with* Herzog, Ulrike; Hillery, Mark) From unambiguous quantum state discrimination to quantum state filtering. (English summary) **2004d:81012**
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Björk, Gunnar *see* **Heydari, Hoshang et al.**, **2004k:81054**
Blanchard, Philippe (*with* Ługiewicz, P.; Olkiewicz, Robert) From quantum to quantum via decoherence. (English summary) **2004f:81017**
Blume-Kohout, Robin *see* **Poulin, David**, **2004c:81036** *and* **Renes, Joseph M. et al.**, **2004m:81043**
Bokulich, Alisa Quantum measurements and supertasks. (English summary)
Bolonek, Katarzyna (*with* Kosiński, Piotr) Minimalization of uncertainty relations in noncommutative quantum mechanics. (English summary) **2004i:81020**
Bouwmeester, Dirk *see* **Lamas-Linares, Antia et al.**
Brádler, Kamil (*with* Dušek, Miloslav) Secret-message sharing via direct transmission. (English summary)
Brandt, Howard E. Quantum measurement with a positive operator-valued measure. (English summary) **2004g:81012**
Brännlund, Johan *see* **Ericsson, Marie et al.**, **2004i:81026**
Brassard, Gilles Quantum communication complexity. (English summary) **2004k:81039**
Braunstein, Samuel L. *see* **Pati, Arun K.**, **2004g:81024**
Bravyi, Sergey Requirements for compatibility between local and multipartite quantum states. (English summary) **2004m:81026**
Brennen, Gavin K. (*with* Williams, Jamie E.) Entanglement dynamics in one-dimensional quantum cellular automata. (English summary) **2004i:81021**
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Brunetti, Romeo (*with* Fredenhagen, Klaus) Time of occurrence observable in quantum mechanics. (English summary) **2004c:81019**
Bruß, Dagmar (*with* Macchiavello, Chiara) On the entanglement structure in quantum cloning. (English summary) **2004k:81041**
Brylinski, Jean-Luc Algebraic measures of entanglement. (English summary) **2004j:81020**
Bub, Jeffrey von Neumann's theory of quantum measurement. (*see* **2004j:81006**)
Buchleitner, A. *see* **Łoziński, Artur et al.**, **2004c:81032**
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Casas, M. *see* **Batle, J. et al.**, **2004f:81014**
Caves, Carlton M. *see* **Renes, Joseph M. et al.**, **2004m:81043**
Chan, Kam Wai *see* **Eberly, J. H. et al.**, **2004h:81023**
Chang, Yia-Chung *see* **Fang, Angbo**, **2004f:81026**

Chefles, Anthony Distinguishability measures and ensemble orderings. (English summary) **2004c:81021**
— *see also* **Barnett, Stephen M. et al., 2004b:81010** *and* **Jex, Igor et al., 2004m:81036**
Chen, Han-Dong *see* **Bernevig, Bogdan A., 2004h:81019**
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Chen, Jing-Ling (*with* Kaszlikowski, Dagomir; Kwek, L. C.; Oh, Choo Hiap) Wringing out new Bell inequalities for three-dimensional systems (qutrits). (English summary) **2004a:81018**
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Cirac, J. Ignacio *see* **Acín, Antonio et al., 2004c:81014**; **Giedke, Géza et al., 2004f:81028** *and* **Kraus, Barbara et al., 2004f:81033**
Colin, Samuel A deterministic Bell model. (English summary) **2004j:81023**
Collins, Daniel (*with* Gisin, Nicolas) A relevant two qubit Bell inequality inequivalent to the CHSH inequality. (English summary) **2004k:81046**
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D'Ariano, Giacomo Mauro On the Heisenberg principle, namely on the information-disturbance trade-off in a quantum measurement. (English summary) **2004d:81014**
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Dehaene, Jeroen (*with* De Moor, Bart) Clifford group, stabilizer states, and linear and quadratic operations over GF(2). (English summary) **2004m:81030**
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Delgado, Aldo *see* **Jex, Igor et al., 2004f:81031**
De Moor, Bart *see* **Verstraete, Frank et al. 2004g:81029** *and* **Dehaene, Jeroen, 2004m:81030**
Den, Mitsue *see* **Kubotani, Hiroto**
De Siena, Silvio *see* **Adesso, Gerardo et al., 2004k:81035**
Dodonov, V. V. (*with* Renó, M. B.) Classicality and anticlassicality measures of pure and mixed quantum states. (English summary) **2004b:81013**
Doherty, Andrew C. *see* **Terhal, Barbara M. et al., 2004f:81042**
Doolen, G. D. *see* **Berman, G. P. et al., 2004a:81017**
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Dušek, Miloslav *see* **Hendrych, Martin et al., 2004c:81027** *and* **Brádler, Kamil**
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Eberly, J. H. (*with* Chan, Kam Wai; Law, Chi-Kwong) Control of entanglement and the high-entanglement limit. (English summary) **2004h:81023**
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— (*with* Megretskiĭ, A. V.; Verghese, George C.) Designing optimal quantum detectors via semidefinite programming. (English summary) **2004f:81022**
— von Neumann measurement is optimal for detecting linearly independent mixed quantum states. (English summary) **2004k:81047**
Emerson, Joseph *see* **Weinstein, Yaakov S. et al., 2004h:81041**
Endo, Takasi Verification of Born's rule by a quantum mechanical meter. (English summary) **2004b:81014**
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Facchi, Paolo Quantum Zeno effect, adiabaticity and dynamical superselection rules. (English summary) **2004h:81024**
Fahmi, A. Locality, Bell's inequality and the GHZ theorem. (English summary) **2004f:81023**
— (*with* Golshani, M.) Locality, Bell's inequality and the GHZ theorem. (English summary) **2004f:81024a**
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Fan, Hong Yi[1] Entangled state representation for Hamiltonian operator of quantum pendulum. (English summary) **2004j:81024**
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— (*with* Fan, Yue) Relationship between squeezing and entangled state transformations. (English summary) **2004g:81014**
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— (*with* Jing, Ouyang) New four-mode charge-related entangled state representation. (English summary)
— Hankel transform as a transform between two entangled state representations. (English summary) **2004i:81027**
Fan, Yue *see* **Fan, Hong Yi[1], 2004g:81014**
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Feng, Jian[1] *see* **Yu, Ya-Fei et al., 2004c:81046**
Fernández, Francisco M. Perturbation theory for Heisenberg operators. (English summary) **2004a:81023**
Filip, Radim Hidden nonlocality in quantum complementarity. (English summary) **2004f:81027**
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Filipp, Stefan (*with* Svozil, Karl) Testing the bounds on quantum probabilities. (English summary)
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Fiurášek, Jaromír Gaussian transformations and distillation of entangled Gaussian states. (English summary) **2004a:81024**
— *see also* **Hendrych, Martin et al., 2004c:81027** *and* **Ježek, Miroslav et al., 2004g:81019**
Fivel, Daniel I. How entangled pairs act as measuring rods on manifolds of generalized coherent states. (English summary) **2004c:81023**
Fleming, G. N. (*with* Butterfield, Jeremy) Strange positions. **2004g:81015**
Fredenhagen, Klaus *see* **Brunetti, Romeo, 2004c:81019**
Freyberger, Matthias *see* **Mack, Holger, 2004c:81033**
Frieden, B. Roy Relations between parameters of a decoherent system and Fisher information. (English summary) **2004a:81025**
Fuchs, Christopher A. *see* **Audenaert, K. M. R. et al., 2004m:81024**
Furuya, Kyoko *see* **Sanz, Liliana et al.**
Gao, Xiu-Hong *see* **Fei, Shao Ming et al., 2004h:81025**
Garuccio, A. (*with* Berardi, V.) On the validity of Clauser and Horne factorizability. (English summary) **2004d:81015**
Gheondea, Aurelian (*with* Gudder, Stanley) Sequential product of quantum effects. (English summary) **2004m:81031**
Ghirardi, GianCarlo (*with* Marinatto, Luca) Entanglement and properties. (English summary) **2004d:81016**
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Giedke, Géza (*with* Eisert, Jens; Cirac, J. Ignacio; Plenio, Martin B.) Entanglement transformations of pure Gaussian states. (English summary) **2004f:81028**
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Giorda, Paolo (*with* Zanardi, Paolo) Mode entanglement and entangling power in bosonic graphs. (English summary) **2004m:81032**
Gisin, Nicolas Sundays in a quantum engineer's life. (*see* **2004f:81046**)
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Goan, Hsi-Sheng An analysis of reading out the state of a charge quantum bit. (English

summary) **2004c:81024**
Golshani, M. *see* **Fahmi, A., 2004f:81024a** *and* **Shafiee, A., 2004k:81076**
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Gregoratti, M. (*with* Werner, Reinhard F.) Quantum lost and found. (English summary) **2004i:81028**
Griffiths, Robert B. Consistent resolution of some relativistic quantum paradoxes. (English summary) **2004c:81025**
Grimus, Walter *see* **Bertlmann, Reinhold A. et al.**, (**2004f:81046**)
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Groisman, Berry (*with* Reznik, Benni; Vaidman, Lev) Instantaneous measurements of nonlocal variables. (English summary) **2004h:81026**
Grübl, Gebhard The quantum measurement problem enhanced. (English summary) **2004h:81027**
Grudka, Andrzej *see* **Wójcik, Antoni et al., 2004g:81030a**
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Gudder, Stanley *see* **Gheondea, Aurelian, 2004m:81031**
Gühne, Otfried (*with* Hyllus, Philipp) Investigating three qubit entanglement with local measurements. (English summary) **2004k:81049**
Guo, Guang-Can *see* **Zhou, Xi-Bin et al., 2004c:81047**; **Li, Jian[6]**; **Guo, Guo-Ping**; **Zheng, Yi-Zhuang et al.** *and* **Xue, Peng**
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Habib, Salman *see* **Bhattacharya, Tanmoy et al., 2004k:81038**
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Hamieh, S. (*with* Zaraket, H.) Distillable entanglement in $d \otimes d$ dimensions. (English summary) **2004g:81016**
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Hayden, Patrick *see* **van Dam, Wim, 2004h:81022**
Heinonen, Teiko (*with* Lahti, Pekka; Pellonpää, Juha-Pekka; Pulmannová, Sylvia; Ylinen, Kari) The norm-1-property of a quantum observable. (English summary) **2004f:81030**
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Herbut, F. Necessary and sufficient range-dimension conditions for bipartite quantum correlations. (English summary) **2004a:81027**
— The role of coherence entropy of physical twin observables in entanglement. (English summary) **2004g:81017**
— On mutual information in multipartite quantum states and equality in strong subadditivity of entropy. (English summary) **2004k:81053**
Herzog, Ulrike *see* **Bergou, János A. et al., 2004d:81012**
Heydari, Hoshang (*with* Björk, Gunnar; Sánchez-Soto, Luis L.) Measurable entanglement criterion for two qubits. (English summary) **2004k:81054**
Hiesmayr, Beatrix C. *see* **Bertlmann, Reinhold A. et al.**, (**2004f:81046**)
Higuchi, Atsushi (*with* Sudbery, A.; Szulc, J.) One-qubit reduced states of a pure many-qubit state: polygon inequalities. (English summary) **2004b:81017**
Hillery, Mark *see* **Bergou, János A. et al., 2004d:81012**
Hofmann, Holger F. Uncertainty characteristics of generalized quantum measurements. (English summary) **2004c:81028**
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Horodecki, Karol *see* **Horodecki, Michałet al., 2004g:81018**
Horodecki, Michał (*with* Horodecki, Paweł; Oppenheim, Jonathan) Reversible transformations from pure to mixed states and the unique measure of information. (English summary) **2004h:81028**
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— From limits of quantum operations to multicopy entanglement witnesses and state-spectrum estimation. (English summary) **2004k:81056**
— Measuring quantum entanglement without prior state reconstruction. (English summary) **2004b:81018**
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Horodecki, Ryszard *see* **Horodecki, Michałet al., 2004g:81018**
Hou, Bo Yu *see* **Hao, San-Ru et al., 2004k:81052**
Howell, John C. *see* **Lamas-Linares, Antia et al.**
Hradil, Zdeněk *see* **Řeháček, Jaroslav, 2004b:81024** *and* **Ježek, Miroslav et al., 2004g:81019**
Hwang, Sung Woo *see* **Lee, Hyuk-Jae[1] et al., 2004a:81030**; **Ahn, Doyeol et al., 2004c:81015**; **Wójcik, Antoni, 2004g:81030a** *and* **Akhavan, O., 2004g:81030b**
Hwang, Won-Young (*with* Matsumoto, Keiji[2]) Irreversibility of entanglement manipulations: vagueness of the entanglement of cost and entanglement of distillation. (English summary) **2004b:81019**
Hyllus, Philipp *see* **Gühne, Otfried, 2004k:81049**
Illuminati, Fabrizio *see* **Adesso, Gerardo et al., 2004k:81035**
Imafuku, Kentaro *see* **Accardi, Luigi et al., 2004m:81018** *and* (**2004e:81004**)
Imai, Hiroshi *see* **Fan, Heng et al., 2004f:81025**
Imoto, Nobuyuki *see* **Nagata, Koji et al., 2004a:81033**
Irvine, William T. M. *see* **Lamas-Linares, Antia et al.**
Ishizaka, Satoshi Analytical formula connecting entangled states and the closest disentangled state. (English summary) **2004h:81030**
— Binegativity and geometry of entangled states in two qubits. (English summary) **2004k:81057**
Ito, Yoshifumi (*with* Kayama, Kenjoh; Kamoshita, Yutaka) New quantum theory and new meanings of Planck's radiation formula. (Japanese. English summary) **2004d:81017**
Jacobs, Kurt A. Efficient measurements, purification, and bounds on the mutual information. (English summary) **2004k:81058**
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Jaeger, G. S. (*with* Sergienko, Alexander V.; Saleh, Bahaa E. A.; Teich, Malvin C.) Entanglement, mixedness, and spin-flip symmetry in multiple-qubit systems. (English summary)
Jafarizadeh, M. A. *see* **Rudolph, Oliver, 2004e:81018** *and* **Akhtarshenas, S. J., 2004m:81019**
Jaroszkiewicz, George *see* **Eakins, Jon, 2004a:81020**
Jenčová, Anna Quantum information geometry and standard purification. (English summary) **2004a:81029**
— Flat connections and Wigner-Yanase-Dyson metrics. (English summary) **2004k:81059**
Jex, Igor (*with* Alber, Gernot; Barnett, Stephen M.; Delgado, Aldo) Antisymmetric multipartite quantum states and their applications. (English summary) **2004f:81031**
— (*with* Andersson, Erika; Chefles, Anthony) Comparing the states of many quantum systems. (English summary) **2004m:81036**
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Ježek, Miroslav (*with* Fiurášek, Jaromír; Hradil, Zdeněk) Quantum inference of states and processes. (English summary) **2004g:81019**
Jing, Ouyang *see* **Fan, Hong Yi[1]**
Johnson, Neil F. *see* **Lee, Chiu Fan[2]**
Jost, Jürgen *see* **Fei, Shao Ming et al., 2004b:81015**
Jozsa, Richard (*with* Koashi, Masato; Linden, Noah; Popescu, Sandu; Presnell, Stuart; Shepherd, Dan; Winter, Andreas) Entanglement cost of generalised measurements. (English summary) **2004h:81031**
Kamenev, D. I. *see* **Berman, G. P. et al., 2004a:81017**
Kamoshita, Yutaka *see* **Ito, Yoshifumi et al., 2004d:81017**
Kaszlikowski, Dagomir (*with* Żukowski, Marek) Greenberger-Horne-Zeilinger paradoxes for N N-dimensional systems. (English summary) **2004c:81029**
— (*with* Żukowski, Marek) Three qubit GHZ correlations and generalized Bell experiments. (English summary) **2004i:81029**
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Kauffman, Louis H. (*with* Lomonaco, Samuel J., Jr.) Quantum entanglement and topological entanglement. (English summary) **2004f:81032**
Kayama, Kenjoh *see* **Ito, Yoshifumi et al., 2004d:81017**
Keyl, Michael (*with* Schlingemann, Dirk; Werner, Reinhard F.) Infinitely entangled states. (English summary) **2004k:81060**
Khalique, Aeysha (*with* Saif, Farhan) Engineering entanglement between external degrees of freedom of atoms via Bragg scattering. (English summary)
Khanna, F. C. *see* **Kobayashi, Masanori et al., 2004k:81062**
Kholevo, A. S. On states, channels, and purification. (English summary) **2004b:81020**
Khrennikov, A. Yu. (*with* Volovich, Igor V.) Local realism, contextualism and loopholes in Bell's experiments. (English summary) **2004m:81037**
— *see also* **Smolyanov, Oleg G.**
Kiang, David *see* **Lo, C. F., 2004j:81026**
Kim, Myungshik S. *see* **Brukner, Časlav et al., 2004k:81040**
Kim, Yoon-Ho Single-photon two-qubit entangled states: preparation and measurement. (English summary)
Kindermann, Markus *see* **Nazarov, Yu. V., 2004k:81067**
King, Christopher Inequalities for trace norms of 2×2 block matrices. (English summary) **2004m:81038**
— Maximal p-norms of entanglement breaking channels. (English summary) **2004c:81030**
— *see also* **Audenaert, K. M. R. et al., 2004m:81024**
Kitajima, Sachiko Dynamics of entangled state in an exactly solvable model. (English summary) **2004m:81039**

Klappenecker, Andreas (*with* Rötteler, Martin) Engineering functional quantum algorithms. (English summary) **2004c:81031**
Klyachko, Aleksandr Anatol'evich (*with* Shumovskiĭ, A. S.) Entanglement, local measurements and symmetry. (English summary) **2004i:81030**
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Kobayashi, Masanori (*with* Khanna, F. C.; Mann, Ady; Revzen, M.; Santana, Ademir E.) Maximal Bell's inequality violation for non-maximal entanglement. (English summary) **2004k:81062**
Kochen, Simon *see* **Conway, John Horton, (2004f:81046)**
Kosiński, Piotr *see* **Bolonek, Katarzyna, 2004i:81020**
Kraus, Barbara (*with* Giedke, Géza; Lewenstein, Maciej; Cirac, J. Ignacio) Entanglement properties of Gaussian states. (English summary) **2004f:81033**
Krishna, Maddaly (*with* Parthasarathy, Kalyanapuram Rangachari) An entropic uncertainty principle for quantum measurements. (English summary) **2004f:81034**
Kryukov, Alexey A. Coordinate formalism on abstract Hilbert space: kinematics of a quantum measurement. (English summary) **2004h:81032**
Kubotani, Hiroto (*with* Den, Mitsue) Entanglement generation by the mixing property in a quantum non-linear system. (English summary)
Kumar, Kailash *see* **Hall, Michael J. W. et al., 2004k:81051**
Kwek, L. C. *see* **Chen, Jing-Ling et al., 2004a:81018**; **(2004i:00019)**; **Tong, Dian Min et al., 2004j:81029** *and* **Moura Alves, Carolina et al., 2004k:81066**
Kye, Seung-Hyeok *see* **Ha, Kil-Chan et al., 2004f:81029**
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Law, Chi-Kwong *see* **Eberly, J. H. et al., 2004h:81023**
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Lee, Hyuk-Jae[1] (*with* Ahn, Doyeol; Hwang, Sung Woo) Dense coding in entangled states. (English summary) **2004a:81030**
— *see also* **Ahn, Doyeol et al., 2004c:81015**; **Wójcik, Antoni, 2004g:81030a** *and* **Akhavan, O., 2004g:81030b**
Lee, Soojoon *see* **Chi, Dong Pyo, 2004k:81045**
Leung, Debbie W. Choi's proof as a recipe for quantum process tomography. (English summary) **2004b:81021**
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Lewenstein, Maciej *see* **Kraus, Barbara et al., 2004f:81033**
Li, Cheng-Zu *see* **Chen, Ping-Xing, 2004f:81020**; **2004m:81027**; **Liang, Lin-mei, 2004i:81031** *and* **Dai, Hong-Yi et al.**
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Li, Shang-Bin (*with* Xu, Jing-Bo) Entanglement in quantum Heisenberg XY chain with phase decoherence. (English summary) **2004f:81035**
Li, Yan-Song *see* **Zeng, Bei et al., 2004b:81028**
Liang, Lin-mei (*with* Li, Cheng-Zu) Bell's theorems without inequalities for continuous variable systems and even-dimensional systems. (English summary) **2004i:81031**
— (*with* Li, Cheng-Zu) Bell's theorem without inequalities for one class of two-qubit mixed states. (English summary)
Li-Jost, Xianqing *see* **Fei, Shao Ming et al., 2004b:81015**
Linden, Noah *see* **Jozsa, Richard et al., 2004h:81031**
Lisewski, Andreas Martin Fixed point result for environment-induced semigroups. (English summary) **2004i:81032**
Liu, Jin-Ming[3] (*with* Wang, Yu-Zhu) Remote preparation of a two-particle entangled state. (English summary)
Liu, Xiao-Shu *see* **Zeng, Bei et al., 2004b:81028**
Lloyd, Seth Power of entanglement in quantum communication. (English summary) **2004b:81022**
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Lomonaco, Samuel J., Jr. *see* **Kauffman, Louis H., 2004f:81032**
Long, Gui-Lu *see* **Zeng, Bei et al., 2004b:81028**
López Laurrabaquio, G. *see* **Berman, G. P. et al., 2004a:81017**
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Lu, Hai-Liang *see* **Fan, Hong Yi[1]**
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— (*with* Zhang, Zhengmin) Entanglement and interference. (English summary) **2004g:81020**
Luo, You-feng *see* **Luo, Shun Long, 2004k:81063**
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Mahler, Günter *see* **Michel, Mathias, 2004i:81034**
Mahoux, G. *see* **Auberson, G. et al., 2004j:81016**
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Mancini, Stefano (*with* Tombesi, P.) Entanglement and nonlocality for a mixture of pair-coherent states. (English summary) **2004a:81031**
Man'ko, Vladimir I. (*with* Marmo, Giuseppe; Sudarshan, E. C. George; Zaccaria, Francesco) Entanglement in probability representation of quantum states and tomographic criterion of separability. (English summary)
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Marmo, Giuseppe *see* **Man'ko, Vladimir I. et al.**
Masanes, Ll. Tight Bell inequality for d-outcome measurements correlations. (English summary) **2004h:81033**
Massar, Serge *see* **Aharonov, Yakir et al., 2004a:81016**
Mathevet, Renaud *see* **Durt, Thomas et al., (2004g:81007)**
Mathis, Wolfgang *see* **Zou, Xu Bo et al., 2004a:81040**
Matsumoto, Keiji[2] *see* **Hayashi, Masahito et al., 2004a:81026**; **Hwang, Won-Young, 2004b:81019** *and* **Fan, Heng et al., 2004f:81025**
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Mintert, Florian (*with* Życzkowski, Karol) Wehrl entropy, Lieb conjecture, and entanglement monotones. (English summary) **2004k:81064**
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Miyake, Akimasa (*with* Verstraete, Frank) Multipartite entanglement in $2 \times 2 \times n$ quantum systems. (English summary) **2004k:81065**
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Mølmer, Klaus Weak measurements and negative probabilities. **2004b:81023**
Molnár, Lajos Preservers on Hilbert space effects. (English summary) **2004g:81022**
Monken, C. H. *see* **Walborn, S. P. et al.**
Moon, Young Hoon *see* **Ahn, Doyeol et al., 2004c:81015**
Morikoshi, Fumiaki *see* **Hayashi, Masahito et al., 2004a:81026**
Mosseri, Rémy *see* **Milman, Pérola, 2004g:81021**
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Munro, W. J. *see* **de Oliveira, Marcos C.**
Nagata, Koji (*with* Koashi, Masato; Imoto, Nobuyuki) Configuration of separability and tests for multipartite entanglement in Bell-type experiments. (English summary) **2004a:81033**
Nalini, K. B. *see* **Usha Devi, A. R. et al., 2004g:81028**
Narnhofer, Heide The structure of state space with respect to imbedding. (English summary) **2004i:81035**
— The role of transposition and CPT operation for entanglement. (English summary) **2004h:81035**
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Nazarov, Yu. V. (*with* Kindermann, Markus) Full counting statistics of a general quantum mechanical variable. (English summary) **2004k:81067**
Nemes, Maria Carolina *see* **Cunha, M. O. Terra, 2004b:81012**
(von Neumann, John) *see* **Bub, Jeffrey, (2004j:81006)**
Nielsen, Michael A. *see* **Osborne, Tobias J., 2004c:81034**
Nisticò, Giuseppe Impossibility of Greenberger-Horne-Shimony-Zeilinger's theorems for pairs of spin-1/2 particles. (English summary)
— *see also* **Beneduci, Roberto, 2004h:81018**
Ogata, Yoshiko Decoherence-free algebra. (English summary) **2004g:81023**
Oh, Choo Hiap *see* **Chen, Jing-Ling et al., 2004a:81018**; **(2004i:00019)** *and* **Tong, Dian Min et al., 2004j:81029**
O'Hara, Paul Rotational invariance and the spin-statistics theorem. (English summary) **2004m:81042**
Oi, Daniel K. L. *see* **Ericsson, Marie et al., 2004i:81026** *and* **Moura Alves, Carolina et al., 2004k:81066**
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Olkiewicz, Robert *see* **Blanchard, Philippe et al., 2004f:81017**
Oppenheim, Jonathan (*with* Reznik, Benni; Unruh, William G.) Temporal ordering in quantum mechanics. (English summary) **2004a:81034**
— *see also* **Horodecki, Michałet al., 2004g:81018** *and* **2004h:81028**
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Pádua, S. *see* **Walborn, S. P. et al.**

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Pan, Jian-Wei *see* **Brukner, Časlav et al., 2004k:81040**

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Stenholm, Stig Are there measurements? (*see* **2004f:81046**)

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Sudarshan, E. C. George *see* **Man'ko, Vladimir I. et al.**

Sudbery, A. *see* **Higuchi, Atsushi et al., 2004b:81017**

Svozil, Karl *see* **Filipp, Stefan**
Szulc, J. *see* **Higuchi, Atsushi et al., 2004b:81017**
Takeuchi, Shigeki *see* **Hofmann, Holger F., 2004k:81055**
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Yi, X. X. *see* **Wu, W. et al., 2004c:81044**
Ying, Ming-Sheng *see* **Zhang, Shengyu, 2004f:81044**
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Jozsa, Richard (*with* Linden, Noah) On the role of entanglement in quantum-computational speed-up. (English summary) **2004f:81055**
Jupp, Peter E. *see* **Barndorff-Nielsen, Ole E. et al., 2004j:62014**
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Kim, Myungshik S. *see* **Wilson, Derek et al., 2004e:81232**
Knight, P. L. *see* **Scheel, S. et al.**
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Kuang, Le-Man *see* **Zhou, Lan[2]**
Kuriyama, Ken *see* **Furuichi, Shigeru et al.**
Lahti, Pekka *see* **Dubin, D. A. et al., 2004a:81006**
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Lee, Hai-Woong *see* **Chun, Yong-Jin, 2004g:81125**
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Madjid, F. Hadi *see* **Myers, John M., 2004a:81061**
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Miranowicz, Adam *see* **Liu, Yu-xi et al.**
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Munro, W. J. *see* **Gilchrist, Alexei et al.**
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Nielsen, Michael A. *see* **Osborne, Tobias J., 2004a:82032**
Novotný, Jaroslav *see* **Plesch, Martin et al., 2004k:81101**
Obada, Abdel-Shafy F. *see* **Abdalla, M. Sebawe et al., 2004g:82072** *and* **Abdel-Aty, Mahmoud et al.**
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Oshima, Kunio *see* **Furuichi, Shigeru, 2004c:94072**
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Patricot, Christophe *see* **Arrighi, Pablo, 2004g:81034**
Pavon, Michele Quantum Schrödinger bridges. (English summary) **2004k:81083**
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Rudolph, Oliver Some properties of the computable cross-norm criterion for separability. (English summary) **2004e:81029**
Ryzhakov, G. V. *see* **Chebotarev, A. M. et al.**
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Schnabel, Roman *see* **Bowen, Warwick P. et al.**
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Shor, Peter W. *see* **DiVincenzo, David P. et al., 2004g:81036**
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Smolin, John A. *see* **Maneva, Elitza N., 2004a:81058** *and* **DiVincenzo, David P. et al., 2004g:81036**
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Tanaka, Atushi *see* **Fujisaki, Hiroshi[2] et al.**, **2004f:81083**
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Teodorescu-Frumosu, Mihail *see* **Jaeger, G. S. et al.**, **2004k:81094**
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Treps, Nicolas *see* **Bowen, Warwick P. et al.**
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Hillery, Mark *see* **Roško, Marián et al., 2004m:81059**
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Hou, Bo Yu *see* **Hao, San-Ru et al., 2004h:81060**
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Ji, Zhengfeng *see* **Duan, Runyao et al., 2004m:81051**
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Kaszlikowski, Dagomir *see* **Chen, Jing-Ling et al., 2004c:81052**
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— Quantum topology and quantum computing. (English summary) (*see* **2004h:81070**)
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Kempe, J. *see* **Hsieh, Michael M. et al.**
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Kitaev, A. Yu. Topological quantum codes and anyons. (*see* **2004h:81070**)
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— *see also* **Song, Guang, 2004f:81060**
Knöll, Ludwig *see* **Clausen, Jens[2] et al.**
Kobes, Randy *see* **Das, Saurya et al., 2004c:81054**
Kok, Pieter *see* **Lee, Hwang et al., 2004d:81022**
Koniorczyk, M. *see* **Kurucz, Z. et al.**
Konno, Norio Limit theorems and absorption problems for quantum random walks in one dimension. (English summary) **2004e:81027**
Kornai, András Explicit finitism. (English summary)
Kosloff, Ronnie *see* **Vala, Jiri et al., 2004b:81034**
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Krishnamurthy, E. V. Mapping, programmability and scalability of problems for quantum speed-up. (English summary)
Kuang, Le-Man *see* **Tong, Zhao-Yang, 2004c:81066**
Kumar, Anil[7] *see* **Mahesh, T. S. et al.**
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Kurzyński, Paweł *see* **Bednarska, Małgorzata et al., 2004i:81040**
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Kwiat, Paul *see* **Peters, Nicholas et al., 2004k:81100**
Kwon, Younghun *see* **Bae, Joonwoo, 2004j:81033** *and* **2004k:81084**
Lai, Choy-Heng *see* **Tong, Dian Min et al., 2004j:81042**
Lam, Ping Koy *see* **Bowen, Warwick P. et al., 2004f:81049**
Landahl, Andrew J. *see* **Lloyd, Seth et al., 2004k:81096**
Latorre, José I. (*with* Martín-Delgado, Miguel A.) Majorization arrow in quantum-algorithm design. (English summary) **2004a:81055**
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Laustsen, T. (*with* Verstraete, Frank; van Enk, S. J.) Local vs. joint measurements for the entanglement of assistance. (English summary) **2004c:81057**
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Leone, Stephen R. *see* **Vala, Jiri et al., 2004b:81034**
Leung, Debbie W. *see* **Bennett, Charles H. et al., 2004i:81041**
Levitt, Malcolm H. *see* **Mahesh, T. S. et al.**
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Li, Shang-Bin (*with* Xu, Jing-Bo) Quantum probabilistic teleportation via entangled coherent states. (English summary) **2004c:81058**
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Li, Xin-Qi *see* **Cen, Li-Xiang et al., 2004c:81051**
Liang, Lin-mei (*with* Li, Cheng-Zu) Distillation of a m-GHZ state from an arbitrary pure states of m qubits under one successful branch protocol. (English summary) **2004d:81023**
Lidar, Daniel A. (*with* Wu, Lian-Ao; Blais, Alexandre) Quantum codes for simplifying design and suppressing decoherence in superconducting phase-qubits. (English summary) **2004c:81059**
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Ling, Yin-Sheng *see* **Fang, Jian-Xing et al.**
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Lloyd, Seth (*with* Landahl, Andrew J.; Slotine, Jean-Jacques E.) Universal quantum interfaces. (English summary) **2004k:81096**
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— A Rosetta Stone for quantum mechanics with an introduction to quantum computation. (English summary) (*see* **2004h:81070**)
— Shor's quantum factoring algorithm. (English summary) (*see* **2004h:81070**)
— Grover's quantum search algorithm. (English summary) (*see* **2004h:81070**)
— A talk on quantum cryptography or how Alice outwits Eve. (English summary) (*see* **2004h:81070**)
— An entangled tale of quantum entanglement. (English summary) (*see* **2004h:81070**)
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Long, Gui-Lu *see* **Liu, Xiao-Shu et al.**
van Loock, Peter Quantum communication with continuous variables. (English summary) **2004i:81047**
López Laurrabaquio, G. *see* **Kassman, Richard B. et al., 2004h:81062**
Lu, Hai-Liang *see* **Fan, Hong Yi[1] et al., 2004g:81037**
Łuczak, Tomasz *see* **Bednarska, Małgorzata et al., 2004i:81040**
Luo, Feng[1] *see* **Freedman, Michael H. et al., 2004i:81044**
Luo, Jun[3] *see* **Wei, Daxiu et al., 2004m:81060**
Luque, Jean-Gabriel (*with* Thibon, Jean-Yves) Polynomial invariants of four qubits. (English summary) **2004k:81098**
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Madjid, F. Hadi *see* **Myers, John M., 2004a:81061**
Magniez, Frédéric *see* **Ivanyos, Gábor et al., 2004k:81093**
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Margolus, Norman Looking at nature as a computer. (English summary) **2004h:81064**
Martín-Delgado, Miguel A. *see* **Latorre, José I., 2004a:81055** *and* **Orús, Román et al., 2004c:81060**
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Mathis, Wolfgang *see* **Zou, Xu Bo**
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Matsumoto, Ryutaroh Conversion of a general quantum stabilizer code to an entanglement distillation protocol. (English summary) **2004h:81065**
van Melkebeek, Dieter *see* **Hayes, Thomas P. et al., 2004j:81037**
Memarzadeh, L. *see* **Asoudeh, M. et al., 2004h:81045**
Mermin, N. David Copenhagen computation. (English summary) **2004h:81066**
Metwally, Nasser *see* **Englert, Berthold-Georg, 2004h:81056**
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— Classification of multipartite entangled states by multidimensional determinants. (English summary) **2004a:81060**
Mølmer, Klaus *see* **Sørensen, Anders Søndberg, 2004a:81067**
Mor, Tal *see* **DiVincenzo, David P. et al., 2004g:81036**
Mosca, Michele *see* **Brassard, Gilles et al., 2004a:81048**
Munro, W. J. *see* **Gilchrist, Alexei et al.**
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Myers, John M. (*with* Madjid, F. Hadi) A proof that measured data and equations of quantum mechanics can be linked only by guesswork. (English summary) **2004a:81061**
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Nakamura, Satoshi[2] Perturbative study of quantum decoherence using diagrammatic technique. (English summary) **2004g:81040**
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Narayanan, Ajit *see* **Wallace, Julia**, (2004d:00014)
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Nishino, Tetsuro Quantum computations and quantum algorithms. (Japanese. English summary)
Niskanen, Antti O. (*with* Nakahara, Mikio; Salomaa, Martti M.) Optimal holonomic quantum gates. (English summary) **2004f:81057**
Novak, Erich *see* **Heinrich, Stefan, 2004f:81054**
Novotný, Jaroslav *see* **Plesch, Martin et al., 2004k:81101**
Oh, Choo Hiap *see* **Chen, Jing-Ling et al., 2004c:81052** *and* **Tong, Dian Min et al., 2004j:81042**
Oh, Sangchu (*with* Lee, Soonchil; Lee, Hai-Woong) Fidelity of quantum teleportation through noisy channels. (English summary) **2004a:81062**
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Pan, Jian-Wei *see* **Yu, Sixia et al., 2004a:81071**
Parashar, Preeti *see* **Al'beverio, S. A. et al., 2004h:81044**
Pati, Arun K. Relative phase change during quantum operations. (English summary) **2004j:81039**
Patricot, Christophe *see* **Arrighi, Pablo, 2004g:81034**
Paul, Prabasaj *see* **Krčo, Marko, 2004a:81054**
Pavlov, Boris S. *see* **Calude, Cristian S.**
Pérez, Esther *see* **Curty, Marcos et al., 2004j:81035**
Perez, Rafael B. *see* **Protopopescu, Vladimir et al., 2004c:81061** *and* **D'Helon, C. et al., 2004h:81053**
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Plesch, Martin (*with* Novotný, Jaroslav; Dzuráková, Zuzana; Bužek, Vladimír) Controlling bi-partite entanglement in multi-qubit systems. (English summary) **2004k:81101**
Prance, H. *see* **Ralph, J. F. et al.**
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Presnell, Stuart *see* **Jozsa, Richard, 2004m:81054**
Proos, John (*with* Zalka, Christof) Shor's discrete logarithm quantum algorithm for elliptic curves. (English summary) **2004h:81067**
Protopopescu, Vladimir (*with* Perez, Rafael B.; D'Helon, C.; Schmulen, J.) Robust control of decoherence in realistic one-qubit quantum gates. (English summary) **2004c:81061**
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— Characterizations of quantum automata. (Chinese. English and Chinese summaries) **2004f:81059**
— Some general probabilistic quantum cloning and deleting machines. (English summary) **2004c:81062**
Radhakrishnan, Jaikumar (*with* Sen, Pranab; Venkatesh, Srinivasan) The quantum complexity of set membership. (English summary) **2004m:81058**
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Ralph, J. F. (*with* Clark, T. D.; Everitt, M. J.; Prance, H.; Stiffell, P.; Prance, R. J.) Characterising a solid state qubit via environmental noise. (English summary)
Ralph, Timothy C. *see* **Bowen, Warwick P. et al., 2004f:81049**
Ramakrishna, Viswanath *see* **Constantinescu, Tiberiu, 2004g:81035**
Ramanathan, K. V. *see* **Mahesh, T. S. et al.**
Ramesh, H. (*with* Vinay, V.) String matching in $\widetilde{O}(\sqrt{n}+\sqrt{m})$ quantum time. (English summary) **2004j:81040**
Ramos, Rubens Viana Quantum teleportation with number states and beam splitters. (English summary)
Rangan, C. *see* **Ahn, J. et al., 2004a:81041**
Rarity, J. G. Quantum communications and beyond. (English summary) **2004i:81049**
Rasetti, Mario *see* **Marzuoli, Annalisa, 2004i:81048**
Reggiani, S. *see* **Bertoni, A. et al.**
Rezakhani, A. T. *see* **Akhavan, O. et al., 2004g:81032** *and* **Asoudeh, M. et al., 2004h:81045**
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Rötteler, Martin *see* **Klappenecker, Andreas, 2004k:81095**
Rudolph, Oliver Some properties of the computable cross-norm criterion for separability. (English summary) **2004e:81029**
Ruskai, Mary Beth Comments on adiabatic quantum algorithms. (English summary) **2004a:81063**
Russell, Alexander C. *see* **Hallgren, Sean et al., 2004j:81036**
Sadakane, Kunihiko (*with* Sugawara, Norito; Tokuyama, Takeshi) Quantum computation in computational geometry. (English summary) **2004c:81063**
Saleh, Bahaa E. A. *see* **Jaeger, G. S. et al., 2004k:81094**
Salomaa, Martti M. *see* **Niskanen, Antti O. et al., 2004f:81057**
Sanders, Barry C. *see* **Daboul, Jamil et al., 2004f:81050**
Santha, Miklos *see* **Dürr, Christoph, 2004f:81052** *and* **Ivanyos, Gábor et al., 2004k:81093**
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Saraceno, Marcos *see* **Emerson, Joseph et al.**

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Sastry, S. Shankar *see* **Zhang, Jun[6] et al., 2004k:81104**
Schempp, Walter J. *see* **Binz, Ernst, 2004k:81086**
Schmulen, J. *see* **Protopopescu, Vladimir et al., 2004c:81061**
Schuch, Norbert (*with* Siewert, Jens) Natural two-qubit gate for quantum computation using the XY interaction. (English summary) **2004c:81064**
Schumacher, Benjamin (*with* Westmoreland, Michael D.) Relative entropy in quantum information theory. (English summary) **2004a:81066**
Sciarrino, F. *see* **Giacomini, S. et al., 2004a:81051**
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Selesnick, S. A. Foundation for quantum computing. (English summary) **2004k:81103**
Sen, Pranab *see* **Radhakrishnan, Jaikumar et al., 2004m:81058**
Sengupta, Anirvan M. *see* **Grover, Lov K., 2004i:81046**
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Sharma, S. Shelly (*with* Vidiella-Barranco, A.) Fast quantum logic gates with trapped ions interacting with external laser and quantized cavity field beyond the Lamb-Dicke regime. (English summary) **2004d:81024**
Shi, Mingjun *see* **Xue, Fei/asup 2 et al.**
Shi, Yaoyun Both Toffoli and controlled-NOT need little help to do universal quantum computing. (English summary) **2004c:81065**
Shor, Peter W. Introduction to quantum algorithms. (English summary) (*see* **2004h:81070**)
— *see also* **DiVincenzo, David P. et al., 2004g:81036**
Siewert, Jens *see* **Schuch, Norbert, 2004c:81064**
Silvestrini, P. *see* **Corato, V. et al., 2004c:81053**
Sinha, Neeraj *see* **Mahesh, T. S. et al.**
Sjöqvist, Erik *see* **Filipp, Stefan, 2004a:81049**
Sładkowski, Jan *see* **Piotrowski, Edward W.**
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Slotine, Jean-Jacques E. *see* **Lloyd, Seth et al., 2004k:81096**
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Steane, Andrew M. Extracting entropy from quantum computers. (English summary)
— A quantum computer only needs one universe. (English summary) **2004i:81050**
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Werner, Reinhard F. *see* **Keyl, Michael, (2004e:81003)**
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Chang, Yia-Chung *see* **Fang, Angbo, 2004f:81026**
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García-Fernández, Priscila *see* **Pérez, Esther et al., 2004h:94051**
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Gisin, Nicolas *see* **Thew, R. et al.**
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Gu, Zhi-Yu *see* **Qian, Shang-Wu, 2004g:81025**
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López Laurrabaquio, G. *see* **Berman, G. P. et al., 2004a:81017**
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Ng, Joseph *see* **Flitney, A. P. et al.**, **2004b:91003**

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Pati, Arun K. *see* **Agrawal, Pankaj**, **2004a:81015** *and* **Ericsson, Marie et al.**, **2004c:81093**

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Röhrig, Hein *see* **Buhrman, Harry et al.**, (**2004a:68002**)

Rötteler, Martin *see* **Klappenecker, Andreas**, **2004c:81031**; **2004j:94037** *and* **Grassl, Markus et al.**, **2004k:94052**

Rowe, David J. *see* **Tyc, Tomáš et al.**

Ruda, H. E. *see* **Bi, Qiao et al.**, **2004g:82075** *and* **2004i:82059**

Sacchi, M. F. *see* **Buscemi, F. et al.**, **2004f:81018**

Saleh, Bahaa E. A. *see* **Jaeger, G. S. et al.**

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Santos, David J. *see* **Pérez, Esther et al.**, **2004h:94051**

Santos, L. F. *see* **Dykman, M. I.**

Sasaki, Masahide *see* **Fuchs, Christopher A.**, **2004j:94024**

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Seligman, T. H. *see* **Gorin, T.**, **2004d:82005**

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Smolin, John A. *see* **Horodecki, Paweł et al.**, **2004a:81028**

Smoliński, Kordian Andrzej *see* **Caban, Paweł et al.**, **2004k:81044**

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Terno, Daniel R. *see* **Peres, Asher**, **2004h:81271**

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Vazirani, Umesh V. Fourier transforms and quantum computation. (English summary) **2004b:68050**

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Venkatesh, Srinivasan *see* **Sen, Pranab**

Vollmar, Roland *see* **Gruska, Jozef**, (**2004h:68006**)

Walczak, Zbigniew Adam *see* **Caban, Paweł et al.**, **2004k:81044**

Wallach, Nolan R. *see* **Meyer, David A.**, **2004h:81034**

Walmsley, I. A. *see* **U'Ren, A. B. et al.**

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Wang, Zhenghan *see* **Freedman, Michael H. et al.**, **2004d:20037**

Watrous, John PSPACE has constant-round quantum interactive proof systems. (English summary) **2004c:68045**

Weinfurter, Harald *see* **Beige, Almut et al.**, **2004j:94021**

Wenger, Jérôme *see* **Grosshans, Frédéric et al.**, **2004k:94070**

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Williams, Jamie E. *see* **Brennen, Gavin K.**, **2004i:81021**

Winter, Andreas *see* **Hayashi, Masahito et al.**, **2004a:81026**

de Wolf, Ronald *see* **Buhrman, Harry**, **2004d:68042**; **de Graaf, Mart**, **2004m:68045**; **Høyer, Peter**, **2004m:68064** *and* **Kerenidis, Iordanis**, **2004m:94087**

Wood, G. R. *see* **Bulger, D. W. et al.**, **2004c:90065**

Xi, Xiao-Qiang *see* **Hao, San-Ru et al.**, **2004k:81052**

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Yepez, Jeffrey *see* **Vahala, George et al.**, **2004c:82028**

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Yura, Fumitaka Entanglement cost of three-level antisymmetric states. (English summary) **2004f:81043**

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Coherent evolution in noisy environments ★ Coherent evolution in noisy environments. **2004e:81003**
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Finkelstein, David Ritz *see* **Baugh, James et al., 2004k:81105**
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Li, Hui[5] (*with* Du, Jiangfeng; Massar, Serge) Continuous-variable quantum games. (English summary) **2004f:81062**
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Westmoreland, Michael D. *see* **Schumacher, Benjamin, 2004a:81078**
Xu, Xiaodong *see* **Du, Jiangfeng et al., 2004d:81029**
Yamasaki, Junko *see* **Hatano, Naomichi et al., 2004b:81035**
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81Qxx General mathematical topics and methods in quantum theory

81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum-mechanical equations

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Ataev, Sh. *see* **Matrasulov, D. U.**

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Audretsch, Jürgen *see* **Skarzhinskiĭ, V. D., 2004f:81069**
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Fujiwara, Takanori *see* **Kurokawa, Hiroshi, 2004b:81039**
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Jefferies, Brian *see* **Brzeźniak, Zdzisław, 2004g:81047**
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Lavenda, B. H. On Fermi's wave mechanics of collision processes. (English summary) **2004b:81040**
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Loualiche, S. *see* **Even, J.**
Lu, Hui-Zhong *see* **Bandrauk, André D.**
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Macfarlane, A. J. Solution of the Schrödinger equation of the complex manifold $\mathbf{CP}^n$. (English summary) **2004i:81058**
Makowski, Adam J. Exact classical limit of quantum mechanics: noncentral potentials and Ermakov-type invariants. (English summary)
Mandelzweig, V. B. *see* **Krivec, R., 2004c:81075**
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Mardoyan, L. G. The generalized MIC-Kepler system. (English summary) **2004h:81076**
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Marmorino, M. G. Exactly soluble Hamiltonian with a squared cotangent potential. (English summary) **2004a:81085**
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Martens, Agnieszka Quantization of an affinely-rigid body with constraints. (English summary) **2004i:81059**
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Micu, L. Sets of analytical solutions of the Dirac equation with confining potentials. (English summary) **2004k:81115**
Mikheev, V. V. *see* **Baranovskiĭ, S. P. et al., 2004b:81036**
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Monastra, Alejandro G. (*with* Smilansky, Uzy; Gnutzmann, Sven) Avoided intersections of nodal lines. (English summary) **2004a:81086**
Moroz, Irene M. *see* **Harrison, Richard[1] et al., 2004a:81082**
Moya-Cessa, Héctor *see* **Fernández Guasti, Manuel, 2004d:81031**
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Nakamura, Katsuhiro *see* **Kato, Takeo et al., 2004g:81051**
Nakanishi, Kenji[1] *see* **Masmoudi, Nader, 2004b:81042** *and* **2004i:81060**
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81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis

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Nanayakkara, Asiri Real eigenspectra in non-Hermitian multidimensional Hamiltonians. (English summary) **2004c:81080**
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Shirai, Shin-ichi *see* **Inahama, Yuzuru, 2004f:81073**
Siedentop, Heinz *see* **Brummelhuis, Raymond et al., 2004b:81046**
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Simoni, A. *see* **Marmo, Giuseppe et al., 2004h:81086**
Skachkov, N. B. *see* **Zhidkov, E. P. et al.**
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Soccorsi, E. *see* **Combes, Jean-Michel et al., 2004h:81085**
Solombrino, L. *see* **Scolarici, G., 2004j:81055**
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Wang, Qinghai *see* **Bender, Carl M. et al., 2004b:81045**
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81Q15 Perturbation theories for operators and differential equations

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81Q20 Semiclassical techniques including WKB and Maslov methods

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Kiselev, O. M. *see* **Glebov, S. G., 2004h:81092**
Kondrat′eva, Margarita *see* **Osborn, T. A., 2004e:81047**
Korsch, Hans Jürgen *see* **Grossmann, Frank, 2004c:81085a**; **Baranger, Michel et al., 2004c:81085b** *and* **2004i:81073**
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Mauser, Norbert J. *see* **Zhang, Ping[4] et al., 2004c:81086**
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Schellhaaß, B. *see* **Grossmann, Frank, 2004c:81085a**; **Baranger, Michel et al., 2004c:81085b** *and* **2004i:81073**
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Li, Xiantao *see* **Jin, Shi, 2004h:81136**
Lustemberg, Pablo *see* **Carlo, Gabriel G. et al., 2004i:81080**
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Martin, M. T. *see* **Kowalski, A. M. et al., 2004f:81084**
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Miller, Peter D. *see* **Kamvissis, Spyridon et al., 2004h:37115**
Misra, Pradip *see* **Biswas, Satyabrata et al., 2004a:83087**
Montani, Giovanni *see* **Imponente, Giovanni, 2004f:83023**
Msezane, A. Z. *see* **Avdonina, N. B. et al., 2004c:81306**
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Proto, A. N. *see* **Kowalski, A. M. et al., 2004f:81084**
Pulvirenti, M. *see* **Graffi, Sandro et al., 2004a:81091**
Rink, Bob A Cantor set of tori with monodromy near a focus-focus singularity. (English summary) **2004j:37115**
Robert, Didier *see* **Combescure, Monique, 2004a:82057** *and* **2004g:82076**
Rosso, O. A. *see* **Kowalski, A. M. et al., 2004f:81084**
Sacchetti, Andrea Nonlinear time-dependent one-dimensional Schrödinger equation with double-well potential. (English summary) **2004m:35253**
Schubert, Roman *see* **Bäcker, Arnd, 2004h:81102**
Scott, Andrew James *see* **Tracy, Mark M., 2004a:81099**
Shubin, M. *see* **Mathai, Varghese, 2004f:58040**
Simon, Barry *see* **Kiselev, Alexander et al., 2004c:47094**
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Sordoni, Vania *see* **Nakamura, Shu, 2004m:81275**
Stenholm, Stig *see* **Jääskeläinen, Markku, 2004a:81270**
Stone, Michael *see* **Garg, Anupam et al., 2004a:81144**
Straube, Emil J. *see* **Fu, Siqi, 2004a:32059a** *and* **2004a:32059b**
Sütő, András *see* **van Hemmen, J. L., 2004f:82004**
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Zworski, Maciej *see* **Sjöstrand, Johannes, 2004g:58035**

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Annals of Mathematics Studies *see* **Kamvissis, Spyridon et al., 2004h:37115**

81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [see also 14D05, 32S40]

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Cheng, Bin Kang *see* **Schmidt, Alexandre G. M. et al., 2004m:81081**
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Jegerlehner, F. *see* **Fleischer, Jochem et al., 2004h:81100**
Kleinert, Hagen *see* **Pelster, Axel, 2004g:81062**
da Luz, M. G. E. *see* **Schmidt, Alexandre G. M. et al., 2004m:81081**
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Popa, Mihai *see* **Effros, Edward G., 2004h:81099**
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— *see also* **Suzuki, A. T. et al., 2004k:81136**
Simula, S. *see* **Melikhov, D., 2004h:81101**
Skoug, David *see* **Chang, Seung Jun, 2004h:81098**
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Items with secondary classifications in 81Q50

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Onishi, T. *see* **Shudo, Akira et al.**, (**2004e:81004**)
von Oppen, Felix *see* **Gnutzmann, Sven et al.**, **2004c:81084**
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81Q60 Supersymmetric quantum mechanics

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81Q70 Differential-geometric methods, including holonomy, Berry and Hannay phases, etc.

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Weinberger, Peter *see* **Keller, Jaime**, **2004a:81102**

Zagoskin, A. M. *see* **Maassen van den Brink, Alec**, **2004c:81098**

Zakrzewski, Wojciech J. *see* **Stichel, P. C.**, **2004m:81094**

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81Rxx Groups and algebras in quantum theory

81R05 Finite-dimensional groups and algebras motivated by physics and their representations [see also 20C35, 22E70]

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Al-Barwani, Muataz *see* **Koca, Mehmet et al.**, **2004d:81041**

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Altafini, Claudio Parameter differentiation and quantum state decomposition for time varying Schrödinger equations. (English summary) **2004m:81095**

Altshuler, Boris L. *see* **Yuzbashyan, Emil A. et al., 2004b:81058**
Aravind, P. K. *see* **Mukunda, N. et al., 2004c:81104**
Arias, J. M. *see* **Lemus, R. et al., 2004m:81101**
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Haase, Richard W. *see* **Ayala-Sánchez, Mauricio, 2004h:81111**
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Hirose, Toru *see* **Iwai, Toshihiro, 2004g:81079** *and* **2004g:81080**
Holland, Peter *see* **Brown, Harvey R.**
Hussin, Véronique *see* **Grundland, A. M. et al., 2004k:81153**
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Kwon, Jae-Hoon *see* **Chung, Myung-Hoon, 2004f:81094**
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Lemus, R. (*with* Frank, Alejandro) A realization of the dynamical group for the square-well potential and its coherent states. (English summary) **2004e:81061**
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Leznov, A. N. *see* **Khruschev, V. V., 2004i:81093**
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Lindner, Netanel H. (*with* Peres, Asher; Terno, Daniel R.) Wigner's little group and Berry's phase for massless particles. (English summary) **2004g:81081**
Livine, Etera R. *see* **Freidel, Laurent, 2004f:81095**
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Lukierski, Jerzy (*with* Nowicki, Anatol) Nonlinear and quantum origin of doubly infinite family of modified addition laws for fourmomenta. (English summary) **2004c:81102**
Maldonado, Carlos R. *see* **Matamala, Adelio R.**
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Toyota, Norihito *see* **Fujii, Kanji et al., 2004c:81101**
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Van Leeuwen, G. *see* **McKeon, D. G. C., 2004j:81075**
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Verdiev, Ĭ. A. *see* **Bayazit, Y. et al.**
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Kac, Victor G. *see* **Boyallian, Carina et al.**, **2004c:17011**
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Ratz, Michael[2] *see* **Hebecker, Arthur**, **2004h:81273**

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Rühl, Werner *see* **Hoffmann, Laurent et al.**, **2004h:81236**
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Schieber, G. *see* **Coquereaux, R.**, **2004h:81123**
Schott, René *see* **Feinsilver, Philip et al.**, **2004f:17043**
Scott, W. G. *see* **Harrison, P. F.**, **2004d:81158**
Shchepochkina, Irina *see* **Grozman, Pavel et al.**, **2004b:17041**
Sherry, T. N. *see* **McKeon, D. G. C.**, **2004j:81179**
Shreecharan, T. *see* **Gurappa, N. et al.**, **2004k:34004**
Simon, Rajiah *see* **Mukunda, N. et al.**, **2004g:81096** *and* **2004m:81140**
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Sjöqvist, Erik *see* **Filipp, Stefan**, **2004a:81049**
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Svobodová, Milena *see* **Patera, Jiřiet al.**, **2004h:17030**
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Wünsche, Alfred *see* **Fan, Hong Yi[1]**, **2004m:81118**
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Yang, Hyun Seok *see* **Kim, Jongwook et al.**, **2004j:81143**
Zhao, Zu Sen *see* **Pan, Hui-Yun**, **2004g:81114**

81R10 Infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody, W-algebras and other current algebras and their representations [see also 17B65, 17B67, 22E65, 22E67, 22E70]

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Jacobsen, Jesper Lykke *see* **Dotsenko, Vladimir S. et al.**, **2004e:81062**
Jizba, P. *see* **Blasone, M. et al.**, **2004i:81096**
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Neitzke, Andrew *see* **Gaberdiel, Matthias R.**, **2004g:81084**
Obers, Niels A. *see* **Halpern, Martin B.**, **2004a:81112**
Oliveira, Alexandre L. *see* **Carvalho, Marcelo Ferreira Lima**, **2004m:81103**
Pashnev, A. I. *see* **Akulov, V. P. et al.**, **2004k:81158**
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Yasuda, Takeshi *see* **Rodgers, Vincent G. J.**
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Gómez, César A comment on masses, quantum affine symmetries and pp-wave backgrounds. (English summary) **2004h:81194**
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Halpern, Martin B. (*with* Helfgott, Craig) Extended operator algebra and reducibility in the WZW permutation orbifolds. (English summary) **2004b:81189**
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Helfgott, Craig *see* **Halpern, Martin B.**, **2004b:81189**; **Ganor, Ori J. et al.**, **2004f:81199** *and* **de Boer, Jan et al.**, **2004h:81217**
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Hollowood, Timothy J. *see* **Davies, N. Michael et al.**, **2004k:81359**
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Jia, Yu Ting *see* **Zhang, Zi Long et al.**, **2004g:17024**
Jimbo, Michio *see* **Feigin, B. L. et al.**, **2004k:17045**
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Kummer, Wolfgang *see* **Bergamin, Luzi**, **2004f:83051**
Langmann, Edwin *see* **Carey, Alan L.**, **2004b:81106**
Lazzarini, Serge *see* **Bandelloni, G.**, **2004b:17048**
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Li, Haisheng Regular representations and Huang-Lepowsky tensor functors for vertex operator algebras. (English summary) **2004a:17033**
— *see also* **Lepowsky, James**, **2004k:17050**
Litvinov, A. V. *see* **Belavin, A. A. et al.**, **2004k:81325**
Lou, Sen-Yue (*with* Tang, Xiao-Yan) Equations of arbitrary order invariant under the Kadomtsev-Petviashvili symmetry group. (English summary) **2004m:37129**
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Marmo, Giuseppe *see* **Grabowski, Janusz**, **2004i:17018**
Mathieu, Pierre[1] *see* **Lesage, F. et al.**, **2004a:81210**
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Mazorchuk, Volodymyr (*with* Twarock, Reidun) Virasoro-type algebras associated with a Penrose tiling. (English summary) **2004d:17029**
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Meng, Dao Ji *see* **Bai, Cheng-Ming et al.**, **2004a:17001**
Miwa, Tetsuji *see* **Feigin, B. L. et al.**, **2004k:17045**
van Moerbeke, Pierre *see* **Adler, Mark**, **2004g:37109**
Moghimi-Araghi, S. (*with* Rouhani, S.; Saadat, Mehdi) Use of nilpotent weights in logarithmic conformal field theories. (English summary) **2004k:81334**
Mukhin, E. E. *see* **Feigin, B. L. et al.**, **2004k:17045**
Naka, Michihiro A realization of $N = 1$ $\mathscr{W}(3/2, 2)$ algebras with Wolf spaces. (English summary) **2004a:81212**
Nakayashiki, Atsushi Residues of q-hypergeometric integrals and characters of affine Lie algebras. (English summary) **2004m:32024**
Nichols, Alexander Extended multiplet structure in logarithmic conformal field theories. (English summary) **2004k:81335**
— *see also* **Kogan, Ian I.**, **2004k:81332**
Nielsen, Erik Bjerrum (*with* Rask, Ole) Exponentiability of quadratic Hamiltonians. (English summary) **2004i:81121**
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Oz, Yaron *see* **Glück, Dan et al.**, **2004i:81192**
Pallua, S. *see* **Cvitan, M. et al.**, **2004k:83104**
Paulot, Louis *see* **Henry-Labordère, Pierre et al.**, **2004k:81281**
Petkou, Anastasios C. Boundary multi-trace deformations and OPEs in AdS/CFT correspondence. (English summary) **2004d:81134**
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Pioline, Boris *see* **Kazhdan, David A. et al.**, **2004a:11035**
Plyushchaĭ, M. S. *see* **Anabalon, Andres**, **2004k:81141**
Popowicz, Ziemowit (*with* Toppan, Francesco) The $N = 2$ supersymmetric heavenly equation and its super-hydrodynamical reduction. (English summary) **2004f:83095**
Prem Kumar, S. *see* **de Medeiros, P. F.**, **2004k:81302**

Prester, P. *see* **Cvitan, M. et al., 2004k:83104**
Privault, Nicolas *see* **Franz, Uwe[1] et al., 2004k:60155**
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— *see also* **Belavin, A. A. et al., 2004k:81325**
Pusztai, B. G. *see* **Fehér, L., 2004m:17028**
Ragoucy, É. *see* **Briot, C., 2004c:17055**
Rask, Ole *see* **Nielsen, Erik Bjerrum, 2004i:81121**
Rasmussen, Jørgen *see* **Lesage, F. et al., 2004a:81210**
Roan, Shi-Shyr *see* **Kac, Victor G. et al., 2004h:17024**
Rouhani, S. *see* **Moghimi-Araghi, S. et al., 2004k:81334** *and* **Proceedings: School and Workshop on Logarithmic Conformal Field Theory and its Applications**
Rudolph, Gerd *see* **Jarvis, P. D., 2004e:17001**
Runkel, Ingo *see* **Fuchs, Jürgen et al., 2004c:81244**
Saadat, Mehdi *see* **Moghimi-Araghi, S. et al., 2004k:81334**
Saidi, El Hassan *see* **Haddou, Malika Ait Ben et al., 2004k:81365**
Sakaguchi, Makoto *see* **Kamimura, Kiyoshi, 2004g:81210**
Sakai, Tadakatsu *see* **Glück, Dan et al., 2004i:81192**
Saleur, Hubert *see* **Lesage, F. et al., 2004a:81210**
Sanjay Logarithmic operators in $SL(2,\mathbb{R})$ WZNW model, singletons and $AdS_3/(L)CFT_2$ correspondence. (English summary) **2004b:81191**
Santachiara, Raoul *see* **Dotsenko, Vladimir S. et al., 2004k:81327** *and* **2004m:81224**
Schilling, Anne *see* **Okado, Masato et al., 2004f:17023** *and* **2004j:17022**
Schott, René *see* **Franz, Uwe[1] et al., 2004k:60155**
Schweigert, Christoph *see* **Fuchs, Jürgen et al., 2004c:81244**
Semikhatov, A. M. *see* **Feigin, B. L. et al., 2004g:81086**
Shimozono, Mark *see* **Okado, Masato et al., 2004f:17023** *and* **2004j:17022**
Siegel, Warren *see* **Hatsuda, Machiko, (2004j:81004)**
Skrypnyk, T. V. Spin generalizations of Clebsch and Neumann integrable systems. (English summary) **2004e:37092**
Stanev, Yassen S. *see* **Nikolov, Nikolai Marinov et al., (2004e:82003)**
Stern, Allen *see* **Pinzul, A., 2004e:81210**
Szabo, Richard J. *see* **Mavromatos, Nikolaos E., 2004k:81333**
Takeyama, Yoshihiro *see* **Feigin, B. L. et al., 2004k:17045**
Tang, Xiao-Yan *see* **Lou, Sen-Yue, 2004m:37129**
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Tarasov, V. O. (*with* Varchenko, A. N.) Selberg-type integrals associated with $\mathfrak{sl}_3$. (English summary) **2004k:33027**
Tipunin, I. Yu. *see* **Feigin, B. L. et al., 2004g:81086**
Todorov, Ivan T. *see* **Furlan, P. et al., 2004i:81152** *and* **Nikolov, Nikolai Marinov et al., (2004e:82003)**
Toppan, Francesco *see* **Popowicz, Ziemowit, 2004f:83095**; **Lukierski, Jerzy, 2004i:81202** *and* **2004m:81203**
Tsilevich, N. V. *see* **Vershik, Anatoliĭ Moiseevich, 2004e:46087**
Twarock, Reidun *see* **Mazorchuk, Volodymyr, 2004d:17029**
Varchenko, A. N. *see* **Tarasov, V. O., 2004k:33027**
Vershik, Anatoliĭ Moiseevich (*with* Tsilevich, N. V.) Fock factorizations and decompositions of the L^2 spaces over general Lévy processes. (Russian. Russian summary) **2004e:46087**
Vitiello, Giuseppe *see* **Alfinito, Eleonora, 2004k:81106**
Wakimoto, Minoru *see* **Kac, Victor G. et al., 2004h:17024**
Waldron, Andrew *see* **Kazhdan, David A. et al., 2004a:11035**
Wang, Weiqiang *see* **Cheng, Shun-Jen, 2004f:17032**
Wecht, Brian *see* **Intriligator, Ken, 2004k:81329**
Zamolodchikov, Aleksandr B. *see* **Belavin, A. A. et al., 2004k:81325**
Zhang, Geng Sheng *see* **Zhang, Zi Long et al., 2004g:17024**
Zhang, Zi Long (*with* Zhang, Geng Sheng; Jia, Yu Ting) Representations of the two parameter deformation of the Virasoro algebra. (English summary) **2004g:17024**
Zhao, Liu *see* **He, Wen-li, 2004i:81161**
Zuber, Jean-Bernard *see* **Petkova, Valentina B., (2004e:82003)**

Items listed otherwise than by author

Memorial Issue:
O'Raifeartaigh, Lochlainn ★ Proceedings of the School and Workshop on Logarithmic Conformal Field Theory and its Applications.
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School and Workshop on Logarithmic Conformal Field Theory and its Applications ★ Proceedings of the School and Workshop on Logarithmic Conformal Field Theory and its Applications.
Progress in Mathematics *see* **Lepowsky, James, 2004k:17050**
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81R12 Relations with integrable systems [see also 17Bxx, 37J35]

Anco, Stephen C. (*with* Pohjanpelto, Juha) Conserved currents of massless fields of spin $s \geq \frac{1}{2}$. (English summary) **2004i:81099**
Andreev, Vladimir A. (*with* Ivanova, O. A.) Symmetries and reduced systems of equations for three-boson and four-boson interactions. (English summary) **2004i:81100**
Bajnok, Zoltan (*with* Palla, Laszlo; Takács, Gabor) Boundary states in SUSY sine-Gordon model with supersymmetric integrable boundary condition. (English summary)
Ballesteros, Angel (*with* Musso, Fabio; Ragnisco, Orlando) Classical and quantum integrable systems: the coalgebra approach. (English summary) **2004e:81063**
Baseilhac, Pascal (*with* Stanishkov, M.) On the third level descendent fields in the Bullough-Dodd model and its reductions. (English summary)
Basu-Mallick, B. (*with* Ghosh, Pijush Kanti; Gupta, Kumar S.) Novel quantum states of the rational Calogero models without the confining interaction. (English summary) **2004m:81106**
— (*with* Bhattacharyya, Tanaya) Jost solutions and quantum conserved quantities of an integrable derivative nonlinear Schrödinger model. (English summary) **2004k:81163**
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— (*with* Ghosh, Pijush Kanti; Gupta, Kumar S.) Inequivalent quantizations of the rational Calogero model. (English summary) **2004f:81096**
Benamira, F. *see* **Chefrour, M. T. et al., 2004k:81166**
Benet, L. (*with* Jung, Christof; Leyvraz, F.) Integrability of interacting two-level boson systems. (English summary)
Bertola, Marco Free energy of the two-matrix model/dToda tau-function. (English summary) **2004k:81164**
Bhattacharyya, Tanaya *see* **Basu-Mallick, B. et al., 2004j:81077** *and* **2004k:81163**
Bibikov, P. N. How to solve Yang-Baxter equation using the Taylor expansion of R-matrix. (English summary) **2004g:81085**
Bowcock, Peter (*with* Corrigan, Edward; Zambon, Cristina) Affine Toda field theories with defects. (English summary) **2004m:81107**
Boyarskiĭ, A. M. (*with* Ruchayskiy, Oleg) Integrability in SFT and new representation of dispersionless KP tau-function. (English summary) **2004c:81111**
Brihaye, Yves (*with* Hartmann, Betti) Multiple algebraisations of an elliptic Calogero-Sutherland model. (English summary) **2004d:81042**
Cabrera-Carnero, I. (*with* Moriconi, Marco) Noncommutative integrable field theories in 2d. (English summary) **2004k:81165**
Castro-Alvaredo, Olalla (*with* Fring, Andreas) Rational sequences for the conductance in quantum wires from affine Toda field theories. (English summary) **2004i:81101**
Chefrour, M. T. (*with* Benamira, F.; Guechi, L.; Mameri, S.) Path integral treatment of a family of super-integrable systems in n-dimensional Euclidean space. (English summary) **2004k:81166**
Corrigan, Edward *see* **Bowcock, Peter et al., 2004m:81107**
Curtright, Thomas L. (*with* Zachos, Cosmas K.) Deformation quantization of superintegrable systems and Nambu mechanics. (English summary) **2004b:81061**
Czachor, Marek *see* **Ustinov, Nikolai V., 2004m:81115**
Daoud, M. (*with* Douari, J.) Extended Weyl-Heisenberg algebra and Rubakov-Spiridonov superalgebra: anyonic realizations. (English summary) **2004f:81097**
Das, Ashok Selected topics in integrable models. (English summary) **2004c:81112**
Desrosiers, Patrick (*with* Lapointe, Luc; Mathieu, Pierre[1]) Jack superpolynomials, superpartition ordering and determinantal formulas. (English summary) **2004k:81167**
— (*with* Lapointe, Luc; Mathieu, Pierre[1]) Jack polynomials in superspace. (English summary) **2004m:81108**
Douari, J. *see* **Daoud, M., 2004f:81097**
Dye, Heather Ann Unitary solutions to the Yang-Baxter equation in dimension four. (English summary) **2004k:81168**
Fairlie, David B. Extra dimensions and non-linear equations. (English summary)
Fateev, Vladimir A. (*with* Onofri, E.) Boundary one-point functions, scattering, and background vacuum solutions in Toda theories. (English summary) **2004c:81113**
Fehér, L. Dynamical r matrices and chiral WZNW phase space. (English summary) **2004c:81114**
Feigin, B. L. (*with* Semikhatov, A. M.; Tipunin, I. Yu.) Possible applications of the semi-infinite construction to integrable lattice models and the modular functor in CFT. (English summary) **2004g:81086**
Feĭgin, M. V. (*with* Veselov, A. P.) Quasi-invariants and quantum integrals of the deformed Calogero-Moser systems. **2004m:81109**
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Fendley, Paul (*with* Read, Nicholas) Exact S-matrices for supersymmetric sigma models and the Potts model. (English summary) **2004d:81043**
Fernández-Núñez, José (*with* Fuertes, Wifredo García; Perelomov, A. M.) Some results on the eigenfunctions of the quantum trigonometric Calogero-Sutherland model related to the Lie algebra D_4. (English summary) **2004j:81078**
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Finkel, F. *see* **Gómez-Ullate Oteiza, D. et al., 2004f:81099**
Fioravanti, Davide (*with* Rossi, Marco) Exact conserved quantities on the cylinder. I. Conformal case. (English summary) **2004i:81103**
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Fring, Andreas *see* **Castro-Alvaredo, Olalla, 2004i:81101**
Fuertes, Wifredo García *see* **Fernández-Núñez, José et al., 2004f:81098** *and* **2004j:81078**
Galazhinskiĭ, A. V. Remarks on $N = 4$ superconformal extension of the Calogero model. (English summary) **2004g:81087**
Gangardt, D. M. *see* **Nishigaki, S. M. et al., 2004g:81089**
Ghosh, Pijush Kanti (*with* Gupta, Kumar S.) On the real spectra of the Calogero model with complex coupling. (English summary)
— *see also* **Basu-Mallick, B. et al., 2004f:81096** *and* **2004m:81106**
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González-López, A. *see* **Gómez-Ullate Oteiza, D. et al., 2004f:81099**
Gravel′, S. Hamiltonians separable in Cartesian coordinates and third-order integrals of motion. (English summary) **2004k:81169**
Grisaru, Marcus T. (*with* Penati, Silvia) An integrable noncommutative version of the sine-Gordon system. (English summary) **2004c:81115**
Guechi, L. *see* **Chefrour, M. T. et al., 2004k:81166**
Gül, Y. *see* **Güler, Yurdahan, 2004m:81110**
Güler, Yurdahan (*with* Gül, Y.) Hamilton-Jacobi formalism of interacting fields. (English summary) **2004m:81110**
Gupta, Kumar S. Quantum inverse square interaction. (English summary)
— *see also* **Basu-Mallick, B. et al., 2004f:81096**; **2004m:81106** *and* **Ghosh, Pijush Kanti**
Hartmann, Betti *see* **Brihaye, Yves, 2004d:81042**
Hegedűs, Árpád Finite-size effects in the SS-model: two component nonlinear integral equations. (English summary) **2004k:81170**
Hikami, Kazuhiro (*with* Wadati, Miki) Topics in quantum integrable systems. (English summary) **2004h:81115**

Hlavatý, Ladislav Lax formulation of generalized principal chiral models. (English summary) **2004f:81100**

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Isaev, A. P. (*with* Sergeev, Sergei M.) Quantum Lax operators and discrete $2+1$-dimensional integrable models. (English summary) **2004f:81101**

Ivanova, O. A. *see* **Andreev, Vladimir A., 2004i:81100**

Jung, Christof *see* **Benet, L. et al.**

Kadyshevskiĭ, V. G. (*with* Sorin, A. S.) An $N=(1|1)$ supersymmetric dispersionless Toda lattice hierarchy. (Russian. Russian summary) **2004b:81062**

Kamenev, A. *see* **Nishigaki, S. M. et al., 2004g:81089**

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Kojima, Takeo The quantum Knizhnik-Zamolodchikov equation associated with $U_q(A_2^{(2)})$ for $|q|=1$. (English summary) **2004g:81088**

Komori, Yasushi *see* **Nishino, Akinori et al., 2004b:81064**

Konotop, Vladimir V. *see* **Spire, A. et al., (2004i:81006)**

Lapointe, Luc *see* **Desrosiers, Patrick et al., 2004k:81167** *and* **2004m:81108**

Leyvraz, F. *see* **Benet, L. et al.**

Lombard, R. J. *see* **Kerris, A. T. et al., 2004m:81112**

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Mameri, S. *see* **Chefrour, M. T. et al., 2004k:81166**

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Meftah, A. *see* **Kerris, A. T. et al., 2004m:81112**

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Moriconi, Marco *see* **Cabrera-Carnero, I., 2004k:81165**

Musso, Fabio *see* **Ballesteros, Angel et al., 2004e:81063**

Nishigaki, S. M. (*with* Gangardt, D. M.; Kamenev, A.) Correlation functions of the BC Calogero-Sutherland model. (English summary) **2004g:81089**

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Onofri, E. *see* **Fateev, Vladimir A., 2004c:81113**

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Palla, Laszlo *see* **Bajnok, Zoltan et al.**

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Pashaev, O. K. *see* **Martina, L., (2004i:81006)**

Penati, Silvia *see* **Grisaru, Marcus T., 2004c:81115**

Perelomov, A. M. *see* **Fernández-Núñez, José et al., 2004f:81098** *and* **2004j:81078**

Pohjanpelto, Juha *see* **Anco, Stephen C., 2004i:81099**

Ragnisco, Orlando *see* **Ballesteros, Angel et al., 2004e:81063**

Read, Nicholas *see* **Fendley, Paul, 2004d:81043**

Rodríguez, Miguel Angel[2] *see* **Gómez-Ullate Oteiza, D. et al., 2004f:81099**

Rossi, Marco *see* **Fioravanti, Davide, 2004i:81103** *and* **2004i:81104**

Ruchayskiy, Oleg *see* **Boyarskiĭ, A. M., 2004c:81111**

Samsarov, A. *see* **Meljanac, Stjepan et al., 2004i:81105**

Sánchez-Guillén, Joaquín Generalized integrability and the connections between Skyrme-Faddeev and Yang-Mills theories. (English summary) **2004c:81117**

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Sasaki, Ryu *see* **Odake, S., 2004b:81065** *and* **Hou, Bo Yu et al., 2004m:81111**

Semikhatov, A. M. *see* **Feigin, B. L. et al., 2004g:81086**

Sen, Diptiman *see* **Basu-Mallick, B. et al., 2004j:81077**

Sergeev, Sergei M. *see* **Isaev, A. P., 2004f:81101**

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Takács, Gabor *see* **Bajnok, Zoltan et al.**

Takeyama, Yoshihiro Form factors of $\mathrm{SU}(N)$ invariant Thirring model. (English summary) **2004d:81044**

Tempesta, P. *see* **Sheftel, M. B. et al., 2004a:81114**

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Carroll, Robert Wayne Toward quantum transmutation. (English summary) (*see* **2004i:00014**)
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Chalykh, Oleg (*with* Etingof, Pavel I.; Oblomkov, A. A.) Generalized Lamé operators. (English summary) **2004m:34197**
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Chui, S. T. *see* **Liu, Wu-Ming**, **2004h:82068**
Constantinidis, C. P. *see* **Bonora, Loriano et al.**, **2004g:81142**
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Delius, Gustav W. (*with* George, Alan) Quantum affine reflection algebras of type $d_n^{(1)}$ and reflection matrices. (English summary) **2004g:17010**
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D'Hoker, Eric (*with* Phong, D. H.) Lectures on supersymmetric Yang-Mills theory and integrable systems. (English summary) **2004d:81122**
Dobrev, V. K. *see* **Arnaudon, Daniel et al.**, **2004i:16047**
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Dorey, Nick (*with* Sinkovics, Annamaria) $\mathcal{N} = 1^*$ vacua, fuzzy spheres and integrable systems. (English summary) **2004a:81222**
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Dunkl, Charles F. Symmetric functions and B_N-invariant spherical harmonics. (English summary) **2004b:33016**
Dunning, Clare *see* **Dorey, Patrick et al.**, (**2004e:82003**)
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Efimovskaya, O. V. *see* **Wolf, Thomas Otto**, **2004d:37086**
Ermolayeva, O. *see* **Harnad, John et al.**, **2004d:37081**
Etingof, Pavel I. (*with* Ginzburg, V. A.) On m-quasi-invariants of a Coxeter group. (English summary) **2004g:20052**
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Evans, David E. *see* **Behrend, Roger E.**, **2004m:82027**
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Falqui, Gregorio (*with* Musso, Fabio) Gaudin models and bending flows: a geometrical point of view. (English summary) **2004i:37121**
Ferreira, L. A. *see* **Bonora, Loriano et al.**, **2004g:81142**
Feverati, Giovanni (*with* Pearce, Paul A.; Ravanini, Francesco) Exact $\varphi_{1,3}$ boundary flows in the tricritical Ising model. (English summary) **2004m:81225**
Foerster, Angela *see* **Batchelor, M. T. et al.**, **2004g:82024** *and* **Tonel, Arlei Prestes et al.**, **2004i:82016**
(Fokas, Athanassios S.) *see* **Integrability, topological solitons and beyond**
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von Gehlen, G. (*with* Pakulyak, S. Z.; Sergeev, Sergei M.) Explicit free parametrization of the modified tetrahedron equation. (English summary) **2004e:82018**
George, Alan *see* **Delius, Gustav W.**, **2004g:17010** *and* **Baseilhac, Pascal et al.**, (**2004e:82003**)
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Ginzburg, V. A. *see* **Etingof, Pavel I.**, **2004g:20052**
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Gravel', S. Superintegrable systems with third-order integrals in classical and quantum mechanics. (Russian. Russian summary) **2004m:37107**
Guan, Xi-Wen *see* **Batchelor, M. T. et al.**, **2004g:82024**
Haake, Fritz *see* **Ostruszka, Andrzej et al.**
Halburd, R. G. *see* **Ablowitz, Mark J. et al.**, **2004h:70034**
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He, Jing Song *see* **Zhong, Zheng**[2] **et al.**, **2004m:37139**
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— Critical points of glueball superpotentials and equilibria of integrable systems. (English summary) **2004m:81247**
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Kingaby, Tom *see* **Hollowood, Timothy J.**, **2004e:81185**
Klimczewski, P. *see* **Doliwa, Adam et al.**, **2004f:39044**
Koizumi, Kouzou *see* **Baseilhac, Pascal**, **2004f:81139**
Korchemsky, Gregory P. *see* **Derkachov, S. É. et al.**, **2004h:81269a** *and* **2004h:81269b**
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— *see also* **Alexandrov, Sergei Yu. et al.**, **2004k:81241**
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Kulish, Petr P. Quantum groups and integrable models. (English summary) (*see* **2004f:00014**)
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Kundu, Anjan Unifying scheme for generating discrete integrable systems including inhomogeneous and hybrid models. (English summary) **2004h:37101**
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Kyuldjiev, A. *see* **Gerdzhikov, V. S. et al.**, **2004j:37098**
Langmann, Edwin Interacting fermions on non-commutative spaces: exactly solvable quantum field theories in $2n + 1$ dimensions. (English summary) **2004d:81054**
— *see also* **Carey, Alan L.**, **2004b:81106**
Lechtenfeld, Olaf *see* **Horváth, Zalán et al.**, **2004a:81238**
Leite, E. E. *see* **Bonora, Loriano et al.**, **2004g:81142**
Leo, R. A. *see* **Tempesta, P. et al.**, **2004j:37134**
van de Leur, Johan W. *see* **Kac, Victor G.**, **2004g:37098**
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Maciejewski, Andrzej J. Non-integrability of certain Hamiltonian systems. Applications of the Morales-Ramis differential Galois extension of Ziglin theory. (English summary) **2004c:37122**
Manashov, A. N. *see* **Derkachov, S. É. et al.**, **2004h:81269a** *and* **2004h:81269b**
Manderfeld, Christopher *see* **Ostruszka, Andrzej et al.**
Mangiarotti, Luigi *see* **Giachetta, Giovanni et al.**, **2004a:81133**
(Manton, Nicholas S.) *see* **Integrability, topological solitons and beyond**

Marmo, Giuseppe *see* **Gerdzhikov, V. S. et al., 2004j:37098** *and* **Giordano, Maristella et al., (2004i:81006)**
Martins, Márcio José *see* **Ribeiro, G. A. P. et al., 2004j:82014**
Mason, Lionel J. (*with* Singer, Michael A.[1]; Woodhouse, N. M. J.) Tau-functions, twistor theory, and quantum field theory. (English summary) **2004b:37146**
Meng, Dao Ji *see* **Bai, Cheng-Ming, 2004h:17001**
Mercat, Christian *see* **Cho, Chui et al., 2004k:81326**
Meshkov, A. G. *see* **Demskoĭ, D. K., 2004f:37091**
Mikhov, S. G. *see* **Arnaudon, Daniel et al., 2004i:16047**
Mironov, A. D. *see* **Chekhov, L. O., 2004e:81116**
Moriconi, Marco Integrable boundary conditions for the $O(N)$ nonlinear sigma model. (English summary) (*see* **2004e:82003**)
Morozov, A. Yu. *see* **Itoyama, Hiroshi, 2004j:81175**
Mosaffa, Amir E. *see* **Alishahiha, Mohsen, 2004f:81208**
Mukhin, E. E. (*with* Varchenko, A. N.) Solutions to the XXX type Bethe ansatz equations and flag varieties. (English summary) **2004k:82026**
Murugesh, S. (*with* Balakrishnan, Radha) Geometric characterizations of the Lamb equation. (English summary) **2004c:37167**
Musso, Fabio *see* **Ballesteros, Angel et al., 2004c:37124** *and* **Falqui, Gregorio, 2004i:37121**
Nakayashiki, Atsushi Residues of q-hypergeometric integrals and characters of affine Lie algebras. (English summary) **2004m:32024**
Oblomkov, A. A. *see* **Chalykh, Oleg et al., 2004m:34197**
Odesskiĭ, A. V. Belavin elliptic R-matrices and exchange algebras. (Russian. Russian summary) **2004c:32030**
— Set-theoretical solutions to the Yang-Baxter relation from factorization of matrix polynomials and θ-functions. (English and Russian summaries) **2004f:16074**
Ol′shanetskiĭ, M. A. *see* **Levin, Andreĭ Mikhailovich et al., 2004k:14058**
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Pakulyak, S. Z. (*with* Sergeev, Sergei M.) Quantum relativistic Toda chain at root of unity: isospectrality, modified Q-operator, and functional Bethe ansatz. (English summary) **2004e:82019**
— *see also* **von Gehlen, G. et al., 2004e:82018**
Palla, Laszlo *see* **Bajnok, Zoltan et al., 2004c:81157** *and* **(2004e:82003)**
Pearce, Paul A. *see* **Cho, Chui et al., 2004k:81326** *and* **Feverati, Giovanni et al., 2004m:81225**
Perelomov, A. M. Classical integrable systems: selected topics. (English summary) **2004b:37116**
— On frequencies of small oscillations of some dynamical systems associated with root systems. (English summary) **2004a:37085**
Peysson, Stéphane Finite-temperature structure factor in the Haldane-Shastry spin chain. (English summary) **2004h:82026**
Phong, D. H. *see* **D'Hoker, Eric, 2004d:81122**
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Popowicz, Ziemowit (*with* Toppan, Francesco) The $N = 2$ supersymmetric heavenly equation and its super-hydrodynamical reduction. (English summary) **2004f:83095**
Pugai, Yaroslav On vertex operators and the normalization of form factors. (English summary) (*see* **2004e:82003**)
Ragnisco, Orlando *see* **Ballesteros, Angel et al., 2004c:37124**
(Ragoucy, É.) *see* **Special Issue: Recent advances in the theory of quantum integrable systems**
Randjbar-Daemi, Seif Abrikozov vortex and branes. (English summary)
Ravanini, Francesco *see* **Feverati, Giovanni et al., 2004m:81225**
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Rossi, Marco (*with* Weston, Robert) A generalized Q-operator for $U_q(\widehat{\mathfrak{sl}_2})$ vertex models. (English summary) **2004c:81129**
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Ruan, Hang Yu The structures and the interactions of solitons in $(2 + 1)$-dimensional Ito's equation. (English summary)
Russo, Jorge G. *see* **Arutyunov, Gleb E. et al., 2004k:81245**
Saleur, Hubert *see* **Caux, Jean-Sébastien et al., (2004e:82003)**
Sardanashvili, G. A. *see* **Giachetta, Giovanni et al., 2004a:81133**
Schedler, Travis Trigonometric solutions of the associative Yang-Baxter equation. (English summary) **2004e:16041**
Sergeev, Sergei M. *see* **von Gehlen, G. et al., 2004e:82018** *and* **Pakulyak, S. Z., 2004e:82019**
Shi, Kang-Jie *see* **Li, Guang-Liang et al., 2004k:82025**
Siano, Francesco *see* **Caux, Jean-Sébastien et al., (2004e:82003)**
Sierra, Germán Integrability and conformal symmetry in the BCS model. (English summary) (*see* **2004e:82003**)
Simoni, A. *see* **Giordano, Maristella et al., (2004i:81006)**
Singer, Michael A.[1] *see* **Mason, Lionel J. et al., 2004b:37146**
Sinkovics, Annamaria *see* **Dorey, Nick, 2004a:81222**
Skrypnyk, T. V. Spin generalizations of Clebsch and Neumann integrable systems. (English summary) **2004e:37092**
Smolyanov, Oleg G. *see* **Al′beverio, S. A. et al., 2004i:37132**
Soliani, G. *see* **Tempesta, P. et al., 2004j:37134**
Sorin, A. S. *see* **Bonora, Loriano, 2004b:81147**
Staudacher, Matthias *see* **Beisert, Niklas, 2004k:81355**
Strickland, Elisabetta *see* **Etingof, Pavel I., 2004h:20052**
Strobl, Thomas *see* **Bojowald, Martin, 2004i:81220**
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81R25 Spinor and twistor methods [see also 32L25]

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da Providência, João *see* **Kuriyama, Atsushi et al., 2004i:81155**
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Wódkiewicz, Krzysztof *see* **Demkowicz-Dobrzański, Rafałet al., 2004k:81090**
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Xu, Yun Hua *see* **Deng, Wen Ji et al.**
Yamamura, Masatoshi *see* **Kuriyama, Atsushi et al., 2004i:81155**
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81R40 Symmetry breaking

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Nomura, Yasunori *see* **Hall, Lawrence J. et al.**
Ojima, Izumi A unified scheme for generalized sectors based on selection criteria: order parameters of symmetries and of thermality and physical meanings of adjunctions. (English summary) **2004k:81180**
Okui, Takemichi *see* **Hall, Lawrence J. et al.**
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Quirós, Mariano *see* **Delgado, Antonio et al., 2004a.81126**
Sundrum, Raman *see* **Luty, Markus A., 2004b:81073**
Tütüncüler, Hayriye *see* **Koca, Mehmet et al., 2004i:81114**
Wudka, José *see* **Einhorn, Martin B., 2004d:81052**

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Cotrone, Aldo Lorenzo *see* **Apreda, Rriccardo et al., 2004k:81244**
(Das, Ashok) *see* **Znojil, Miloslav, 2004e:81056**
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Dominici, Daniele *see* **De Curtis, Stefania et al.**
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Ferrara, Sergio *see* **Andrianopoli, Laura et al., 2004g:83133; 2004g:83134** *and* **(2004m:83003)**
Filotas, Elise *see* **Burgess, Clifford P. et al., 2004j:83123**
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Graesser, Michael *see* **Anisimov, Alexey et al., 2004c:81185**
Graf, G. M. *see* **Aschbacher, W. H. et al., 2004c:81070**
Gregoire, Thomas *see* **Arkani-Hamed, Nima et al., 2004a:81262**

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Higashide, Yoshihiro *see* **Abe, Yoshikazu et al.**
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Hübsch, T. *see* **Berglund, Per et al., 2004c:83116**
Inagaki, Tomohiro Dynamical symmetry breaking in Randall-Sundrum background. (English and Russian summaries) **2004i:83107**
Ivanov, Evgeniĭ Alekseevich[2] *see* **Bellucci, Stefano et al., 2004c:81260**
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Kaplan, David E. (*with* Schmaltz, Martin) The little Higgs from a simple group. (English summary)
Kawamura, Yoshiharu *see* **Haba, Naoyuki et al., 2004e:81086a** *and* **2004e:81086b**
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Matsunaga, Mamoru *see* **Abe, Yoshikazu et al.**
McCarthy, Shane A. *see* **Kuzenko, Sergei M., 2004b:83152**
Mimura, Yukihiro *see* **Gogoladze, I. G. et al., 2004c:81320**
Minic, Djordje *see* **Berglund, Per et al., 2004c:83116**
Morris, Tim R. *see* **Arnone, Stefano et al., 2004h:81142**
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Nandi, Satya *see* **Gogoladze, I. G. et al., 2004c:81320**
Nath, Pran *see* **Körs, Boris, 2004k:81293**
Nomura, Yasunori *see* **Burdman, Gustavo, 2004b:81251**
Okada, Nobuchika *see* **Luty, Markus A., 2004d:83096**
Ordóñez, Carlos R. *see* **Añaños, Gino N. J. et al., 2004k:81148**
Pelaez, José R. *see* **De Curtis, Stefania et al.**
(Pernice, Sergio A.) *see* **Znojil, Miloslav, 2004e:81056**
Petrov, A. Yu. *see* **Girotti, H. O. et al., 2004h:81250**
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Pogosian, Levon (*with* Steer, Danièle A.; Vachaspati, Tanmay) Triplication of SU(5) monopoles. (English summary) **2004a:81164**
Pokorski, Stefan *see* **Dudas, Emilian et al., 2004j:81171**
Pontón, Eduardo *see* **Chacko, Zacharia**
Quella, Thomas On the hierarchy of symmetry breaking D-branes in group manifolds. (English summary) **2004c:81229**
Quevedo, Fernando *see* **Burgess, Clifford P. et al., 2004j:83123**
(Rajput, Balwant Singh) *see* **Müller-Krumbhaar, H., 2004c:83064**
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Read, Nicholas *see* **Jacobsen, Jesper Lykke et al., 2004a:81155**
Rivelles, Victor O. *see* **Girotti, H. O. et al., 2004h:81250**
Sagnotti, Augusto Open-string models with broken supersymmetry. (English summary) (*see* **2004e:82003**)
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Sakai, Norisuke *see* **Hashimoto, Koji, 2004a:81192**
Sakamura, Yutaka Effective theory for wall-antiwall system. (English summary) **2004f:81226**
Saleur, Hubert *see* **Jacobsen, Jesper Lykke et al., 2004a:81155**
Sarandy, Marcelo S. *see* **Dudal, David et al., 2004a:81232** *and* **2004g:81144**
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Schroers, Bernd J. *see* **Bais, F. Alexander et al., 2004g:81101**
Schuch, Dieter New energetic and dynamic quantum effects originating from the breaking of time-reversal symmetry. (English summary) **2004a:81104**
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Slingerland, Joost K. *see* **Bais, F. Alexander et al., 2004g:81101**
Sorella, Silvio Paolo *see* **Dudal, David et al., 2004a:81232** *and* **2004g:81144**
Spallucci, Euro *see* **Guendelman, Eduardo I. et al.**
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Jing, Sicong *see* **Li, Yun, 2004g:81094**

Jonke, L. *see* **Dimitrijević, M. et al., 2004i:81252**

Juaréz-Ramirez, Maria Araceli *see* **Bautista, César, 2004a:17014**

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Konno, Hitoshi *see* **Kojima, Takeo, 2004h:17015**

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Madore, John *see* **Grosse, Harald et al., 2004c:81137**

Maeda, Yoshiaki *see* **Omori, Hideki et al., 2004d:17022**

Manashov, A. N. *see* **Derkachov, S. É. et al., 2004h:81269a**; **2004h:81269b** *and* **2004k:82023**

Marinelli, J. R. *see* **Avancini, S. S. et al., 2004g:82073**

Martin, Paul Purdon *see* **Doikou, Anastasia, 2004c:82030**

Matthes, Rainer *see* **Hajac, Piotr M. et al., 2004b:46102** *and* **2004g:46073**

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Nakanishi, Tomoki *see* **Kuniba, Atsuo et al., 2004a:17021**

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Okamoto, Miyuki *see* **Murakami, Hitoshi et al., 2004a:57016**

del Olmo, Mariano A. *see* **Arratia, Oscar, 2004a:81105**

O'Loughlin, Martin Boundary actions in Ponzano-Regge discretization, quantum groups and AdS_3. (English summary) **2004j:83036**

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Pearce, Paul A. *see* **Feverati, Giovanni, 2004g:82027**

Penson, K. A. *see* **Quesne, C. et al., 2004i:81112**

Perica, Ante *see* **Meljanac, Stjepan et al., 2004h:81131**

Popa, Mihai *see* **Effros, Edward G., 2004h:81099**

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da Providência, Constança *see* **Kuriyama, Atsushi et al., 2004e:81060**

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Ramgoolam, Sanjaye *see* **Corley, Steven, 2004m:81185**

Rego-Monteiro, M. A. *see* **Bezerra, Valdir B. et al.**

Roche, Ph. *see* **Buffenoir, E. et al., 2004c:81249** *and* **Noui, K., 2004f:83026**

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Sarbishaei, M. *see* **Alavi, S. A., 2004e:82026**

Sasaki, Ryu *see* **Hou, Bo Yu et al., 2004g:82028**

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Shklyarov, D. L. (*with* Zhang, Genkai) Berezin transform on the quantum unit ball. (English summary) **2004i:33034**

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Steinacker, Harold *see* **Fiore, Gaetano et al., 2004b:16059** *and* **Grosse, Harald et al., 2004c:81137**

Stolin, Alexander *see* **Kulish, Petr P., 2004b:16060**

Suzuki, Junji *see* **Kuniba, Atsuo et al., 2004a:17020**

Svrtan, Dragutin *see* **Meljanac, Stjepan et al., 2004h:81131**

Szymański, Wojciech *see* **Hajac, Piotr M. et al., 2004b:46102** *and* **2004g:46073**

Takata, Toshie *see* **Murakami, Hitoshi et al., 2004a:57016**

Tarlini, M. *see* **Bonechi, Francesco et al., 2004k:58007**

Teschner, J. *see* **Bytsko, Andrei G., 2004m:17019**

Tkachuk, V. M. *see* **Quesne, C. et al., 2004i:81083** *and* **2004i:81112**

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Tsouchnika, E. *see* **Dimitrijević, M. et al., 2004i:81252**

Tsuboi, Zengo *see* **Kuniba, Atsuo et al., 2004a:17021**

Tsue, Yasuhiko *see* **Kuriyama, Atsushi et al., 2004e:81060**

Tuset, L. *see* **Bédos, E. et al., 2004e:46085**

Twarock, Reidun *see* **Dobrev, V. K. et al., 2004a:81147**

Vahlas, A. *see* **Ogievetskiĭ, O. V., 2004j:20097**

Vallin, Jean-Michel Multiplicative partial isometries and finite quantum groupoids. (English summary) **2004i:16058**

Van Daele, Alfons *see* **Delvaux, Lydia, 2004k:16100**

Wagner, Elmar *see* **Schmüdgen, Konrad, 2004c:20084** *and* **2004j:58006**

Wess, Julius *see* **Fiore, Gaetano et al., 2004b:16059** *and* **Dimitrijević, M. et al., 2004i:81252**

Wohlgenannt, Michael *see* **Dimitrijević, M. et al., 2004i:81252**

Yamada, Yasuhiko *see* **Kuniba, Atsuo et al., 2004a:17020**

Yamamura, Masatoshi *see* **Kuriyama, Atsushi et al., 2004e:81060**

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Yoshioka, Akira *see* **Omori, Hideki et al., 2004d:17022**

Zeitlin, Vadim *see* **Smirnov, Fedor A., (2004e:82003)**

Zhang, Genkai *see* **Shklyarov, D. L., 2004i:33034**

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Zhu, Yue-Jin *see* **Song, Tong-Qiang, 2004d:81049**

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Items listed otherwise than by author

Noncommutative geometry and quantum groups ★ Noncommutative geometry and quantum groups. **2004i:58002**

Warsaw ★ Noncommutative geometry and quantum groups. **2004i:58002**

81R60 Noncommutative geometry

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Geyer, Hendrik B. *see* **Jellal, Ahmed, 2004f:81117**

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Iso, Satoshi *see* **Aoki, Hajime et al., 2004f:81114**

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Jellal, Ahmed (*with* Geyer, Hendrik B.) Second virial coefficient for noncommutative space. (English summary) **2004f:81117**

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Jonsson, Thordur *see* **Austing, Peter et al., 2004f:81116**

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Kokado, Akira (*with* Okamura, Takashi; Saito, Takesi) Noncommutative phase space and the Hall effect. (English summary) **2004m:81126**

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Onofri, E. *see* **Fateev, Vladimir A., 2004m:81147**
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Palla, Laszlo *see* **Bajnok, Zoltan et al., 2004c:81157** *and* (**2004e:82003**)
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Ponsot, Bénédicte Massless $N = 1$ super-sinh-Gordon: form factors approach. (English summary) **2004i:81157**
Pronko, G. P. *see* **Antoniou, Ioannis E. et al., 2004j:81098**
da Providência, Constança *see* **Kuriyama, Atsushi et al., 2004i:81155**
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Siano, Francesco *see* **Caux, Jean-Sébastien et al., 2004k:81214**
Siedentop, Heinz *see* **Hainzl, Christian, 2004m:81148**
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Sorella, Silvio Paolo *see* **Barci, D. G. et al., 2004e:81082**
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Teufel, Stefan Effective N-body dynamics for the massless Nelson model and adiabatic decoupling without spectral gap. (English summary) **2004b:81110**
Todorov, Ivan T. *see* **Furlan, P. et al., 2004i:81152**
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Urrutia, Luis F. *see* **Casini, H. et al., 2004c:81158**
Vary, James P. *see* **Martinovič, L'ubomír, 2004f:81141**
Vernizzi, Graziano *see* **Akemann, G., 2004a:81152**
Wang, Zhi Xing *see* **Jiang, Wei-Zhou et al.**
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Yamamura, Masatoshi *see* **Kuriyama, Atsushi et al., 2004i:81155**
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Items with secondary classifications in 81T10

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Isaev, A. P. *see* **Furlan, P. et al., 2004j:81087**

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Lukyanov, Sergei L. *see* **Doyon, Benjamin, 2004b:81188**

Mateo, Juan *see* **Antoniou, Ioannis E. et al., 2004k:81414**

Meisinger, Peter N. *see* **Bender, Carl M. et al., 2004a:81251**

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Salmons, Stéphane *see* **Grange, Pascal et al., 2004e:81093**

Salvay, Mariano J. *see* **Naón, Carlos M., 2004e:81095**

Sankovich, D. P. *see* **Gorzhini, M., 2004b:82005**

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Takács, Gabor *see* **Bajnok, Zoltan et al., 2004k:81324**

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Todorov, Ivan T. *see* **Furlan, P. et al., 2004j:81087**

Tokarevskaya, N. G. *see* **Bogush, A. A. et al., 2004b:81068**

Tsvelik, Alexei M. *see* **Essler, Fabian H. L.**

Urrutia, Luis F. *see* **Casini, H. et al., 2004k:83034**

Valent, Galliano *see* **Klimčík, Ctirad, 2004f:81156**

Wágner, Ferenc *see* **Bajnok, Zoltan et al., 2004k:81324**

Wang, Qinghai *see* **Bender, Carl M. et al., 2004a:81251**

Wang, Xiang Jun^2 *see* **Hu, Xiaoshan et al., 2004g:81113**

Weldon, H. Arthur Quantization of higher-derivative field theories. (English summary) **2004c:81287**

Werner, Ernst *see* **Grange, Pascal et al., 2004e:81093**

Wiese, Kay Jörg *see* **Ludwig, Andreas W. W., 2004f:81203**

Wudka, José *see* **Einhorn, Martin B., 2004d:81052**

Zakrzewski, Wojciech J. *see* **Chu, Chong-Sun et al., 2004c:81290**

Zambon, Cristina *see* **Bowcock, Peter et al., 2004m:81107**

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Zinn-Justin, Jean *see* **Moshe, Moshe**

81T13 Yang-Mills and other gauge theories [see also 53C07, 58E15]

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Howe, Paul S. *see* **Heslop, Paul J., 2004b:81213**; **2004m:81246** *and* **D'Hoker, Eric et al., 2004e:81176**
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Hu, Sen *see* **Wang, Xiao-Jun, 2004g:81272**
Hull, Christopher M. *see* **de Medeiros, P. F. et al., 2004e:83076** *and* **2004h:81222**
Hurth, Tobias *see* **Grassi, Pietro A. et al., 2004i:81237**
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— Comments on gluino condensates in $\mathcal{N} = 1/2$ SYM theory. (English summary) **2004k:81368**
— *see also* **Abbaspur, Reza et al., 2004i:81225**
Imanuvilov, Oleg Yurievich *see* **Chae, Dongho, 2004c:58031**
Iorio, A. *see* **Guralnik, G. et al., 2004h:83064**
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Isaev, L. S. (*with* Protogenov, A. P.) Structure of multi-meron knot action. (English summary) **2004j:58018**
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Ivanov, Evgenii Alekseevich[2] *see* **Bukhbinder, I. L. et al., 2004b:81204** *and* **Arai, Masato et al., 2004m:81236**
Ivanova, T. A. (*with* Lechtenfeld, Olaf) Noncommutative multi-instantons on $\mathbb{R}^{2n} \times S^2$. (English summary) **2004g:81293**
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Jackiw, Roman W. *see* **Guralnik, G. et al., 2004h:83064**
Jang, Jaeduck *see* **Han, Jongmin, 2004e:58020**
Janik, Romuald A. *see* **Demasure, Yves, 2004b:81207**
Jiménez, S. *see* **Carmona, José Manuel et al., 2004c:82019**
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Julia, Bernard U-opportunities: why is ten equal to ten? (English summary) **2004i:81098**
Kaminsky, Kirk (*with* Okawa, Yuji; Ooguri, Hirosi) Quantum aspects of the Seiberg-Witten map in noncommutative Chern-Simons theory. (English summary) **2004d:81145**
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Kanno, Hiroaki *see* **Eguchi, Tohru, 2004m:81188**
Kapustin, Anton *see* **Cherkis, Sergey A., 2004g:53029**
Kawamura, Katsunori *see* **Abe, Mitsuo, 2004f:81103**
Kerler, Werner General chiral gauge theories on the lattice. (English summary) **2004m:81169**
Keurentjes, Arjan Flat connections for Yang-Mills theories on the 3-torus. (English summary) (*see* **2004d:81111**)
— Oxidation = group theory. (English summary) **2004g:83140**
Khanna, F. C. *see* **de Montigny, M. et al., 2004h:81117**
Kholodnyi, Valery A. Beliefs-preferences gauge symmetry and dynamic replication of contingent claims in a general market environment. (English summary) **2004a:91074**
Khoze, Valentin V. *see* **Chu, Chong-Sun, 2004d:81085**
Kim, Hongsu Supergravity duals in the noncommutative $\mathcal{N} = 4$ super Yang-Mills theory in the infinite momentum frame. (English summary) **2004k:83160**
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Kim, Seung-Kook *see* **Kim, Yong-Wan et al., 2004h:81244**
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Kitao, T. Type IIB 2-form fields and gauge coupling constant of 4D $\mathcal{N} = 2$ super QCD. (English summary) **2004i:81241**
Klein, Matthias (*with* Sin, Sang-Jin) On effective superpotentials and Kutasov duality. (English summary) **2004k:81372**
Kleinert, Hagen (*with* Nogueira, Flavio S.; Sudbø, Asle) Kosterlitz-Thouless-like deconfinement mechanism in the $(2 + 1)$-dimensional abelian Higgs model. (English summary) **2004g:81161**
Klinkhamer, Frans R. (*with* Schimmel, J.) CPT anomaly: a rigorous result in four dimensions. (English summary) **2004b:81198**
Klose, Thomas *see* **Kim, Nakwoo et al., 2004i:81240**
Knauf, Anke *see* **Cerdeño, D. G. et al.**
Kneipp, Marco A. C. Z_k string fluxes and monopole confinement in non-Abelian theories. (English summary) **2004k:81373**
Kobayashi, Tatsuo *see* **Abe, Hiroyuki et al., 2004c:81176**
Koç, Ramazan *see* **Koca, Mehmet et al., 2004i:81114**
Koca, Mehmet (*with* Koç, Ramazan; Tütüncüler, Hayriye) Explicit breaking of SO(3) with Higgs fields in the representations $l = 2$ and $l = 3$. (English summary) **2004i:81114**
Konishi, Kenichi (*with* Ricco, Antonio) Calculating gluino condensates in $\mathcal{N} = 1$ SYM from Seiberg-Witten curves. (English summary)
— *see also* **Bolognesi, Stefano, 2004a:81219**; **Auzzi, Roberto et al., 2004b:81202** *and* **2004i:81229**
Konishi, Yukiko (*with* Naka, Michihiro) Geometric engineering of Seiberg-Witten theories with massive hypermultiplets. (English summary) **2004k:81375**
Kotikov, A. V. (*with* Lipatov, L. N.; Velizhanin, V. N.) Anomalous dimensions of Wilson operators in $N = 4$ SYM theory. (English summary) **2004f:81220**
Kovtun, Pavel (*with* Ünsal, Mithat; Yaffe, Laurence G.) Non-perturbative equivalences among large N_c gauge theories with adjoint and bifundamental matter fields. (English summary) **2004m:81157**
Kraus, Elisabeth (*with* Rupp, Christian W.; Sibold, Klaus) Supersymmetric Yang-Mills theories with local coupling: the supersymmetric gauge. (English summary) **2004d:81127**
Kraus, Per (*with* Shigemori, Masaki) Non-commutative instantons and the Seiberg-Witten map. (English summary) **2004d:81148**
Kristiansson, Fredric (*with* Rajan, Peter) Scalar field corrections to AdS$_4$ gravity from higher spin gauge theory. (English summary) **2004f:83006**
Kristjansen, C. *see* **Beisert, Niklas et al., 2004h:81228**
Kruczenski, Martín A note on twist two operators in $N = 4$ SYM and Wilson loops in Minkowski signature. (English summary) **2004a:81228**
Krykhtin, V. A. *see* **Bukhbinder, I. L., 2004f:81154**
Kulik, Bogdan *see* **Guralnik, Zachary, 2004k:81342**
Kummer, Wolfgang *see* **Grumiller, Daniel, 2004j:83080**
Kunstatter, Gabor *see* **Gegenberg, Jack, 2004g:83096**
Kunszt, Zoltan (*with* Nyffeler, Andreas; Puchwein, Martin) Deconstructing non-abelian gauge theories at one loop. (English summary)
Künzle, H. P. *see* **Oliynyk, Todd A., 2004k:53122**
Kutasov, David (*with* Parnachev, Andrei; Sahakyan, David A.) Central charges and U(1)$_R$ symmetries in $\mathcal{N} = 1$ super Yang-Mills. (English summary) **2004k:81376**
Kuzenko, Sergei M. (*with* McArthur, Ian N.) On the background field method beyond one loop: a manifestly covariant derivative expansion in super Yang-Mills theories. (English summary) **2004e:81189**
Lada, Tom *see* **Fulp, Ron et al., 2004a:81111**
Laine, Mikko (*with* Meyer, Harvey B.; Rummukainen, Kari; Shaposhnikov, Mikhail) Localisation and mass generation for non-abelian gauge fields. (English summary) **2004b:83118**
Lambert, Neil D. *see* **Constable, Neil R., 2004a:53055**
Lavrelashvili, G. V. *see* **Breitenlohner, Peter et al., 2004m:83020**
Lazzizzera, I. *see* **Ferrari, Franco, (2004e:00015)**
Leal, Lorenzo Link invariants from classical Chern-Simons theory. (English summary) **2004c:81252**
— *see also* **Arias, Pío J. et al., 2004d:81138**
Lechtenfeld, Olaf *see* **Ivanova, T. A., 2004g:81293**
Lee, Hyun Min (*with* Nilles, Hans Peter; Zucker, Max) Spontaneous localization of bulk fields: the six-dimensional case. (English summary) **2004j:81177**
Lee, Keith S. M. Index theorem for domain walls in supersymmetric gauge theories. (English summary) **2004c:81275**
Lee, Kimyeong *see* **Kim, Seok, 2004j:81144**
Lelli, Simone *see* **Dubath, Florian et al.**
Lemes, Vitor Emanuel Rodino (*with* Sarandy, Marcelo S.; Sorella, Silvio Paolo) Ghost condensates in Yang-Mills theories in the Landau gauge. (English summary) **2004j:81109**
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Leonhardt, Thorsten (*with* Meziane, Ahmed; Rühl, Werner) A recursive algorithm for fractional BPS multitrace fields of $\mathcal{N} = 4$ SYM$_4$ from AdS/CFT. (English summary) **2004h:81237**
Libanov, M. V. *see* **Frère, Jean-Marie et al.**
Lin, Fanghua (*with* Yang, Yi Song) Gauged harmonic maps, Born-Infeld electromagnetism, and magnetic vortices. (English summary) **2004i:58021**
Lindström, Ulf Generalized $\mathcal{N} = (2, 2)$ supersymmetric non-linear sigma models. (English summary)
— *see also* **Albertsson, Cecilia et al., 2004g:81253**
Lipatov, L. N. *see* **Kotikov, A. V. et al., 2004f:81220**
Litim, Daniel F. (*with* Pawlowski, Jan M.) Wilsonian flows and background fields. (English summary) **2004c:81172**
Liu, Chuang Gauge gravity and the unification of natural forces. (English summary)
Liu, Kefeng Mathematical results inspired by physics. (English summary) **2004d:11028**
Liu, Xin[5] *see* **Duan, Yi-Shi et al., 2004g:81250**
Livine, Etera R. *see* **Freidel, Laurent, 2004f:81095**
Lizzi, Fedele (*with* Vitale, Patrizia; Zampini, Alessandro) From the fuzzy disc to edge currents in Chern-Simons theory. (English summary)
Lopez, Ana *see* **Ciccolini, M. L. et al., 2004a:81234**
Losev, Andrei S. (*with* Shifman, M.) $\mathcal{N} = 2$ sigma model with a twisted mass and superpotential: central charges and solitons. (English summary) **2004k:81377**
Louis, Jan *see* **Cerdeño, D. G. et al.**
Lugo, Adrián R. A note on noncommutative Chern-Simons model on manifolds with boundary. (English summary) **2004b:81233**
Lüst, Dieter *see* **Faux, Michael et al., 2004g:81195**
Maeda, Kei-ichi *see* **Okuyama, Naoya, 2004g:83064**
Maekawa, Nobuhiro (*with* Yamashita, Toshifumi) Simple E_6 unification with anomalous $U(1)_A$ symmetry. (English summary)
Maison, Dieter *see* **Breitenlohner, Peter et al., 2004m:83020**
Majid, Shahn (*with* Raineri, E.) Electromagnetism and gauge theory on the permutation group S_3. (English summary) **2004d:58037**
Malik, R. P. Cohomological aspects of gauge theories: superfield formalism. (English summary) **2004i:81247**
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— *see also* **Errata: "Superfield approach to a novel symmetry for non-abelian gauge theory"**
Mangiarotti, Luigi *see* **Giachetta, Giovanni et al., 2004m:53044**
Marini, Antonella (*with* Sadun, Lorenzo) Spherically symmetric solutions of a boundary value problem for monopoles. (English summary) **2004e:58021**
Marino, E. C. Creation operators for two-branes and duality in BF and Chern-Simons theories in $D = 5$. (English summary)

Mariz, T. (*with* Nascimento, J. R. S.; Ribeiro, R. F.; Brito, F. A.) Noncommutative massive Thirring model in three-dimensional spacetime. (English summary) **2004k:81402**
— *see also* **Bazeia, D. et al., 2004d:81066**
Marolf, Donald Chern-Simons terms and the three notions of charge. (English summary) **2004g:83124**
Marques, G. C. (*with* Spehler, D.) Magnetic monopoles and chiral asymmetry. (English summary) **2004g:81310**
Marshakov, Andrei *see* **Chekhov, L. O. et al., 2004k:81358**
Martínez, Roberto *see* **Diaz, Rodolfo A. et al., 2004d:81123**
Martini, R. *see* **Hoevenaars, L. K., 2004e:81184**
Martín-Mayor, V. *see* **Carmona, José Manuel et al., 2004c:82019**
Martucci, Luca (*with* Silva, Pedro J.) YM on the dielectric brane: a D0-brane tale. (English summary) **2004g:81223**
Maru, Nobuhito *see* **Abe, Hiroyuki et al., 2004c:81176**
Matinyan, S. G. (*with* Ng, Y. Jack) The partition function and level density for Yang-Mills-Higgs quantum mechanics. (English summary) **2004i:82008**
McArthur, Ian N. *see* **Kuzenko, Sergei M., 2004e:81189**
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— (*with* Hull, Christopher M.) Exotic tensor gauge theory and duality. (English summary) **2004e:83076**
Menezes, R. *see* **Bazeia, D. et al., 2004h:81139**
Merlatti, Paolo *see* **Bertolini, Matteo, 2004f:81213**
Mesref, L. *see* **Hoffmann, Laurent et al., 2004h:81236**
Meyer, Harvey B. *see* **Laine, Mikko et al., 2004b:83118**
Meziane, Ahmed *see* **Hoffmann, Laurent et al., 2004h:81236** *and* **Leonhardt, Thorsten et al., 2004h:81237**
Mezincescu, G. Andrei (*with* Mezincescu, Luca) Factorization method and the supersymmetric monopole harmonics. (English summary) **2004g:81070**
Mezincescu, Luca *see* **Mezincescu, G. Andrei, 2004g:81070**
Mimura, Yukihiro *see* **Gogoladze, I. G. et al., 2004c:81320**
Minahan, Joseph A. (*with* Zarembo, Konstantin) The Bethe-ansatz for $\mathcal{N} = 4$ super Yang-Mills. (English summary) **2004d:81131**
— *see also* **Beisert, Niklas et al., 2004m:81237**
Minces, Pablo *see* **Cantcheff, M. Botta, 2004a:81233**
Minwalla, Shiraz *see* **Constable, Neil R. et al., 2004b:81205**
Mira Martínez, Jesús María *see* **Diaz, Rodolfo A. et al., 2004d:81123**
Mironov, A. D. *see* **Chekhov, L. O. et al., 2004k:81358**
Miškinis, Paulius On the possible existence of new fermionic degrees of freedom in $D = 6$. (English and Lithuanian summaries) **2004i:81109**
Mišković, Olivera (*with* Zanelli, Jorge) Dynamical structure of irregular constrained systems. (English summary) **2004k:70025**
de Montigny, M. (*with* Khanna, F. C.; Santana, Ademir E.) Nonrelativistic wave equations with gauge fields. (English summary) **2004h:81117**
Mosaffa, Amir E. *see* **Alishahiha, Mohsen et al., 2004k:81352**
Motl, Luboš *see* **Constable, Neil R. et al., 2004b:81205**
Mück, Wolfgang Perturbative and non-perturbative aspects of pure $\mathcal{N} = 1$ super Yang-Mills theory from wrapped branes. (English summary) **2004c:81278**
Muñoz-Sudupe, A. *see* **Carmona, José Manuel et al., 2004c:82019**
Murray, Michael K. (*with* Singer, Michael A.[1]) A note on monopole moduli spaces. (English summary) **2004f:53025**
Muslih, Sami I. The Hamilton-Jacobi treatment of relativistic particles coupled to Chern-Simons term. (English summary) **2004f:70049**
Myers, Robert C. (*with* Winters, David J.) From D-$\overline{\text{D}}$ pairs to branes in motion. (English summary) **2004c:81225**
Naculich, Stephen G. (*with* Schnitzer, Howard J.; Wyllard, Niclas) The $\mathcal{N} = 2$ U(N) gauge theory prepotential and periods from a perturbative matrix model calculation. (English summary) **2004c:81279**
Naganuma, Masashi *see* **Arai, Masato et al., (2004j:81004)**
Naka, Michihiro *see* **Konishi, Yukiko, 2004k:81375**
Nakahara, Mikio ★ Geometry, topology and physics. **2004e:58001**
Nakamula, Atsushi On a q-analog of ADHMN construction for self-dual Yang-Mills. (English summary) **2004b:37153**
Nakayama, Yu Effective gauge degrees of freedom and the (non)existence of the glueball superpotential. (English summary) **2004h:81239**
Nandi, Satya *see* **Gogoladze, I. G. et al., 2004c:81320**
Naqvi, Asad *see* **Erlich, Joshua, 2004a:81223**
Nascimento, J. R. S. *see* **Bazeia, D. et al., 2004d:81066**; **2004h:81139** *and* **Mariz, T. et al., 2004k:81402**
Nash, Charles *see* **Dolan, Brian P., 2004c:58078**
Negrão, M. R. *see* **Góes-Negrão, M. S. et al.**
Negru, Iulian *see* **Bizdadea, Constantin et al., 2004d:81141**
Nekrasov, Nikita A. Seiberg-Witten prepotential from instanton counting. (English summary) **2004f:81223**
— *see also* **Unity from duality: gravity, gauge theory and strings, 2004d:81004**
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Neuberger, Herbert Regulated chiral gauge theories. (English summary) **2004g:81172**
Neves, C. *see* **Neto, Jorge Ananias et al., 2004c:70041**
Ng, Y. Jack *see* **Matinyan, S. G., 2004i:82008**
Nicolai, Hermann (*with* Samtleben, Henning) Chern-Simons vs. Yang-Mills gaugings in three dimensions. (English summary) **2004g:83144**
Nieder, Harald *see* **Brandhuber, Andreas et al., 2004i:81230** *and* **Ita, Harald et al., 2004k:81369**
Niederle, Jiří *see* **Arai, Masato et al., 2004m:81236**
Nikolov, Nikolai Marinov (*with* Stanev, Yassen S.; Todorov, Ivan T.) Globally conformal invariant gauge field theory with rational correlation functions. (English summary)
Nilles, Hans Peter *see* **Lee, Hyun Min et al., 2004j:81177**
Nilsson, Bengt E. W. *see* **Cederwall, Martin et al., 2004a:81220**
Nishino, Hitoshi (*with* Rajpoot, Subhash) Noncommutative self-dual supersymmetric Yang-Mills theory. (English summary) **2004h:81254**
Nitta, Muneto *see* **Arai, Masato et al., (2004j:81004)**
Nogueira, Flavio S. *see* **Kleinert, Hagen et al., 2004g:81161**
Noui, K. *see* **Buffenoir, E. et al., 2004c:81249**
Nugaev, E. Ya. *see* **Frère, Jean-Marie et al.**
Núñez, Alvaro (*with* Starinets, Andrei O.) AdS/CFT correspondence, quasinormal modes, and thermal correlators in $\mathcal{N} = 4$ supersymmetric Yang-Mills theory. (English summary) **2004h:81240**
Núñez, Carlos (*with* Paredes, Ángel; Ramallo, Alfonso V.) Flavoring the gravity dual of $\mathcal{N} = 1$ Yang-Mills with probes. (English summary) **2004k:81378**
Nyffeler, Andreas *see* **Kunszt, Zoltan et al.**
Oeckl, Robert Generalized lattice gauge theory, spin foams and state sum invariants. (English summary) **2004d:57017**
Ohta, Kazutoshi Exact mesonic vacua from Matrix models. (English summary) **2004d:81133**
Okawa, Yuji *see* **Kaminsky, Kirk et al., 2004d:81145**
Okuyama, Naoya (*with* Maeda, Kei-ichi) Five-dimensional black hole and particle solution with a non-abelian gauge field. (English summary) **2004g:83064**
Oliveira, Wilson *see* **Neto, Jorge Ananias et al., 2004c:70041**
Olinyk, Todd A. (*with* Künzle, H. P.) On global properties of static spherically symmetric EYM fields with compact gauge groups. (English summary) **2004k:53122**
Onishchenko, Andrei I. (*with* Velizhanin, V. N.) Nonforward anomalous dimensions of Wilson operators in $\mathcal{N} = 4$ supersymmetric Yang-Mills theory. (English summary) **2004k:81380**
Onizawa, S. (*with* Yamada, Mitsuru) Supersymmetry transformation in the supersymmetric non-abelian gauge theory. (English summary)
Ooguri, Hirosi *see* **Kaminsky, Kirk et al., 2004d:81145**
Ookouchi, Yutaka *see* **Fuji, Hiroyuki, 2004d:81124** *and* **Ahn, Changhyun, 2004k:81351**
Osborn, Hugh Local couplings and SL(2, $\mathbb{R}$) invariance for gauge theories at one loop. (English summary) **2004c:81168**
Ovrut, Burt A. *see* **Doran, Charles F. et al., 2004b:81210** *and* **Faux, Michael et al., 2004g:81195**
Oz, Yaron *see* **Brandhuber, Andreas et al., 2004i:81230** *and* **Ita, Harald et al., 2004k:81369**
Paniak, Lori D. (*with* Szabo, Richard J.) Open Wilson lines and group theory of noncommutative Yang-Mills theory in two dimensions. (English summary) **2004f:81242**
Paredes, Ángel *see* **Núñez, Carlos et al., 2004k:81378**
Park, Young-Jai *see* **Kim, Yong-Wan et al., 2004h:81244**
Parnachev, Andrei *see* **Kutasov, David et al., 2004k:81376**
Parvizi, Shahrokh *see* **Abbaspur, Reza et al., 2004i:81225**
Passos, E. *see* **Bazeia, D. et al., 2004d:81066**
Paturyan, Vanush (*with* Tchrakian, Tigran D. H.) Monopole-antimonopole solutions of the Skyrmed SU(2) Yang-Mills-Higgs model. (English summary) **2004k:58028**
Pavlovskiĭ, O. V. Yang-Mills theory as bimetrical gravity: polarization effects and finite-energy gluon clusters. (English summary) **2004b:83103**
Pawlowski, Jan M. *see* **Litim, Daniel F., 2004c:81172**
Pech, J. *see* **Carmona, José Manuel et al., 2004c:82019**
Peletminskiĭ, S. V. *see* **Akhiezer, A. I., 2004b:81001**
Penati, Silvia *see* **Arutyunov, Gleb E. et al., 2004h:81227**
Pepe, Michele *see* **Chandrasekharan, Shailesh et al.**
Percacci, R. *see* **Fabbrichesi, M. et al., 2004b:81196**
Pérez-Mosquera, J. C. *see* **Arias, Pío J. et al., 2004d:81138**
Pestun, Vasily $\mathcal{N} = 4$ super Yang-Mills matrix integrals for almost all simple gauge groups. (English summary) **2004c:81280**
— *see also* **Dymarsky, A., 2004i:81233**
Petkou, Anastasios C. An operator product expansion analysis of $\mathcal{N} = 4$ SYM$_4$ at weak and strong coupling. (English summary) **2004g:81270**
Petrov, A. Yu. *see* **Bukhbinder, I. L. et al., 2004b:81204**
Pfeiffer, Hendryk Higher gauge theory and a non-abelian generalization of 2-form electrodynamics. (English summary) **2004m:81170**
Phong, D. H. *see* **D'Hoker, Eric, 2004d:81122**
Pi, So-Young *see* **Guralnik, G. et al., 2004h:83064**
Piai, M. *see* **Fabbrichesi, M. et al., 2004b:81196**
Picariello, Marco *see* **Dudal, David et al., 2004a:81232** *and* **2004j:81108**
Piguet, Olivier *see* **Diniz, Sortelano Araujo, 2004b:81209**
Pinsky, Stephen The spectrum of SYM$_{2+1}$. (English summary) **2004f:81225**
Plefka, Jan Christoph *see* **Kim, Nakwoo et al., 2004i:81240**
Pletnev, N. G. *see* **Banin, A. T. et al.**
Poghossian, Rubik H. *see* **Flume, R., 2004e:81180**
Pokorski, Stefan *see* **Dudas, Emilian et al., 2004j:81171**
Polchinski, Joseph (*with* Strassler, Matthew J.) Deep inelastic scattering and gauge/string duality. (English summary) **2004i:81206**
Policastro, Giuseppe (*with* Son, Dam Thanh; Starinets, Andrei O.) From AdS/CFT correspondence to hydrodynamics. II. Sound waves. (English summary) **2004b:81218**
Polychronakos, Alexios P. The Seiberg-Witten map and topology. (English summary) **2004a:81242**
Pontón, Eduardo *see* **Chacko, Zacharia**
Poppitz, Erich Deconstructing KK monopoles. (English summary) **2004h:83075**
Postnikov, A. E. *see* **Constable, Neil R. et al., 2004b:81205**
Prem Kumar, S. *see* **Dorey, Nick et al., 2004k:81360**
Protogenov, A. P. *see* **Isaev, L. S., 2004j:58018**
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Rabinovici, Eliezer *see* **Berman, David S., 2004m:81238**

Raineri, E. *see* **Majid, Shahn**, **2004d:58037**
Rajan, Peter *see* **Kristiansson, Fredric**, **2004f:83006**
Rajpoot, Subhash *see* **Nishino, Hitoshi**, **2004h:81254**
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Rodriguez, J.-Alexis *see* **Diaz, Rodolfo A. et al.**, **2004d:81123**
Roiban, Radu *see* **Bena, Iosif et al.**, **2004b:81203** *and* **2004f:81211**
Römelsberger, Christian *see* **Brandhuber, Andreas et al.**, **2004i:81230**
Roy, Shibaji *see* **Bhattacharya, Somdatta**, **2004h:81175**
Rühl, Werner *see* **Hoffmann, Laurent et al.**, **2004h:81236** *and* **Leonhardt, Thorsten et al.**, **2004h:81237**
Ruiz-Lorenzo, J. J. *see* **Carmona, José Manuel et al.**, **2004c:82019**
Rummukainen, Kari *see* **Laine, Mikko et al.**, **2004b:83118**
Rupp, Christian W. *see* **Kraus, Elisabeth et al.**, **2004d:81127**
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Ryzhov, Anton V. *see* **D'Hoker, Eric et al.**, **2004e:81176**
Sadun, Lorenzo *see* **Marini, Antonella**, **2004e:58021**
Sahakyan, David A. *see* **Kutasov, David et al.**, **2004k:81376**
Sakai, Norisuke *see* **Arai, Masato et al.**, (**2004j:81004**)
Sako, Akifumi Instanton number of noncommutative $U(n)$ gauge theory. (English summary) **2004i:81255**
Saliu, Solange Odile *see* **Bizdadea, Constantin et al.**, **2004d:81141**
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Santana, Ademir E. *see* **de Montigny, M. et al.**, **2004h:81117**
Sant'Anna, Adonai S. *see* **Hu, Liangzhong**, **2004k:81188**
Sarandy, Marcelo S. *see* **Dudal, David et al.**, **2004a:81232**; **2004j:81108** *and* **Lemes, Vitor Emanuel Rodino et al.**, **2004j:81109**
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Sati, Hisham *see* **Evslin, Jarah**, **2004j:81162**
Sazdjian, H. *see* **Jugeau, F.**
Schalm, Koenraad *see* **Greene, Brian R. et al.**, **2004c:81209**
Scharf, Günter *see* **Grigore, Dan Radu**, **2004d:81125**
Schimmel, J. *see* **Klinkhamer, Frans R.**, **2004b:81198**
Schmeikal, Bernd Minimal spin gauge theory—Clifford algebra and quantumchromodynamics. (English summary) **2004a:81118**
Schnabl, Martin *see* **Berkovits, Nathan**, **2004i:81185**
Schnitzer, Howard J. *see* **Naculich, Stephen G. et al.**, **2004c:81279**
Schubert, Christian *see* **Eden, Burkhard et al.**, **2004g:81262**
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Sengupta, Ambar N. The volume measure for flat connections as limit of the Yang-Mills measure. (English summary) **2004i:58011**
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Sezgin, E. *see* **Engquist, Johan et al.**, **2004c:81263**
Shadmi, Yael *see* **Randall, Lisa et al.**, **2004e:81096**
Shaposhnikov, Mikhail *see* **Laine, Mikko et al.**, **2004b:83118**
Shifman, M. *see* **Armoni, Adi**, **2004h:81167** *and* **Losev, Andrei S.**, **2004k:81377**
Shigemori, Masaki *see* **Kraus, Per**, **2004d:81148**
Shiu, Gary *see* **Greene, Brian R. et al.**, **2004c:81209**
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Silva, Pedro J. *see* **Martucci, Luca**, **2004g:81223**
Sin, Sang-Jin *see* **Klein, Matthias**, **2004k:81372**
Singer, Michael A.[1] *see* **Murray, Michael K.**, **2004f:53025**
Singleton, Douglas Alexander *see* **Dzhunushaliev, Vladimir**, **2004g:81308**
Skiba, Witold *see* **Constable, Neil R. et al.**, **2004b:81205**
Slavnov, A. A. Consistent non-commutative quantum gauge theories? (English summary) **2004e:81211**
Small, Anthony The spectral lines of the charge 2 axially symmetric monopole. (English summary) **2004f:53026**
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Sokatchev, Emery *see* **Eden, Burkhard et al.**, **2004g:81262**; **Arutyunov, Gleb E. et al.**, **2004h:81227** *and* **Ferrara, Sergio**, **2004m:81266**
Son, Dam Thanh *see* **Policastro, Giuseppe et al.**, **2004b:81218**
Sorella, Silvio Paolo *see* **Dudal, David et al.**, **2004a:81232**; **2004j:81108** *and* **Lemes, Vitor Emanuel Rodino et al.**, **2004j:81109**
Spehler, D. *see* **Marques, G. C.**, **2004g:81310**
Spence, Bill *see* **de Medeiros, P. F. et al.**, **2004h:81222**
Stanev, Yassen S. *see* **Nikolov, Nikolai Marinov et al.**
Starinets, Andrei O. *see* **Policastro, Giuseppe et al.**, **2004b:81218** *and* **Núñez, Alvaro**, **2004h:81240**
Stasheff, Jim *see* **Fulp, Ron et al.**, **2004a:81111**
Staudacher, Matthias *see* **Beisert, Niklas et al.**, **2004h:81228** *and* **2004m:81237**
Steffen, Frank Daniel *see* **Chandrasekharan, Shailesh et al.**
Steinacker, Harold Quantized gauge theory on the fuzzy sphere as random matrix model. (English summary) **2004k:81409**
Strassler, Matthew J. On confinement and duality. (English summary) **2004g:81271**
— *see also* **Polchinski, Joseph**, **2004i:81206**
Strobl, Thomas *see* **Bojowald, Martin**, **2004i:81220**
Sudbø, Asle *see* **Kleinert, Hagen et al.**, **2004g:81161**
Sugawara, Yuji *see* **Eguchi, Tohru**, **2004e:81178**
Sugino, Fumihiko A lattice formulation of super Yang-Mills theories with exact supersymmetry. (English summary) **2004m:81171**
Sundell, P. *see* **Engquist, Johan et al.**, **2004c:81263**
Suzuki, Hisao Mean-field approach to the derivation of baryon superpotential from matrix model. (English summary) **2004e:81198**
Szabo, Richard J. *see* **Paniak, Lori D.**, **2004f:81242**
Tachikawa, Yuji Derivation of the linearity principle of Intriligator-Leigh-Seiberg. (English summary) **2004k:81384**
Tagliacozzo, Luca *see* **Espriu, Domènec**, **2004g:81171**
Tarancón, A. *see* **Carmona, José Manuel et al.**, **2004c:82019**
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Tchrakian, Tigran D. H. *see* **Paturyan, Vanush**, **2004k:58028**
Tekin, Bayram Yang-Mills solutions on Euclidean Schwarzschild space. (English summary) **2004b:81133**
Téllez, P. *see* **Carmona, José Manuel et al.**, **2004c:82019**
Testa, Massimo Some considerations on chiral gauge theories. (English summary)
Thorn, Charles B. *see* **Gudmundsson, Skuli et al.**, **2004e:81182**
Todorov, Ivan T. *see* **Nikolov, Nikolai Marinov et al.**
Tolksdorf, Jürgen (Fermionic) mass meets (intrinsic) curvature. (English summary) **2004h:58007**
Tong, David Comments on condensates in non-supersymmetric orbifold field theories. (English summary) **2004b:81220**
Toyota, Norihito *see* **Fujii, Kanji et al.**, **2004c:81101**
Tran, Tuan A. *see* **Gudmundsson, Skuli et al.**, **2004e:81182**
Troitsky, S. V. *see* **Frère, Jean-Marie et al.**
Troost, Jan (*with* Tsuchiya, Asato) Three-dimensional black hole entropy. (English summary) **2004i:83079**
Tseng, Li-Sheng $SL(2, \mathbb{Z})$ multiplets in $\mathcal{N} = 4$ SYM theory. (English summary) **2004b:81221**
Tsimpis, Dimitrios *see* **Cederwall, Martin et al.**, **2004a:81220**
Tsuchiya, Asato *see* **Troost, Jan**, **2004i:83079**
Tsutsumi, Yoshio Stability of constant equilibrium for the Maxwell-Higgs equations. **2004e:58029**
Tütüncüler, Hayriye *see* **Koca, Mehmet et al.**, **2004i:81114**
Tyutin, I. V. *see* **Geyer, Bodo et al.**, **2004d:70029**
Uchiyama, Satoshi *see* **Fujii, Kanji et al.**, **2004c:81101**
Ülker, Kayhan $N = 2$ super-Yang-Mills action and BRST cohomology. (English summary)
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Vasil'ev, M. A. *see* **Alkalaev, K. B.**, **2004d:81120**
Vasiliev, D. *see* **Chekhov, L. O. et al.**, **2004k:81358**
Velizhanin, V. N. *see* **Kotikov, A. V. et al.**, **2004f:81220** *and* **Onishchenko, Andrei I.**, **2004k:81380**
Veltman, Martinus J. G. Reconsideration of a question posed by Frank Yang at the 1973 Bonn conference. (*see* **2004j:00037**)
Verschelde, Henri *see* **Dudal, David et al.**, **2004a:81232** *and* **2004j:81108**
Vian, Federica *see* **Bassetto, Antonio et al.**, **2004f:81235**
Vignolo, Stefano *see* **Cianci, Roberto et al.**, **2004k:58021a** *and* **2004k:58021b**

Vitale, Patrizia *see* **Lizzi, Fedele et al.**
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Weiner, Neal *see* **Randall, Lisa et al., 2004e:81096**
Wess, Julius Gauge theories on noncommutative spaces. (English summary) **2004b:81089**
Wiese, Uwe-Jens *see* **Chandrasekharan, Shailesh et al.**
Wijnhout, Jeroen *see* **Alishahiha, Mohsen et al., 2004k:81352**
Winters, David J. *see* **Myers, Robert C., 2004c:81225**
Wipf, Andreas *see* **Dittmann, Leander et al., 2004a:81172**
Witten, Edward Chiral ring of $\mathrm{Sp}(N)$ and $\mathrm{SO}(N)$ supersymmetric gauge theory in four dimensions. (English summary) **2004k:81387**
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Wotzasek, C. *see* **Bazeia, D. et al., 2004h:81139**
Wschebor, Nicolás *see* **Ellwanger, Ulrich, 2004a:81165**
Wu, Ning Unification of non-abelian $\mathrm{SU}(N)$ gauge theory and gravitational gauge theory. (English summary) **2004c:81322**
Wulkenhaar, Raimar *see* **Putz, V., 2004f:81243**
Wyllard, Niclas *see* **Naculich, Stephen G. et al., 2004c:81279**
Yaffe, Laurence G. *see* **Kovtun, Pavel et al., 2004m:81157**
Yamada, Mitsuru *see* **Onizawa, S.**
Yamashita, Toshifumi *see* **Maekawa, Nobuhiro**
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Yang, Yi Song *see* **Lin, Fanghua, 2004i:58021**
Yapışkan, Barış *see* **Dayi, Ömer F. et al., 2004j:81190**
(Yastrzhembsky, I.) *see* **Akhiezer, A. I., 2004b:81001**
Yavartanoo, Hossein *see* **Alishahiha, Mohsen, 2004m:81235**
Yılmaz, Nejat T. Dualisation of the general scalar coset in supergravity theories. (English summary) **2004e:83119**
Yoshioka, Koichi *see* **Abe, Hiroyuki et al., 2004c:81176** *and* **Hirayama, Takayuki, 2004m:81233**
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Yung, A. V. *see* **Auzzi, Roberto et al., 2004i:81229** *and* **Evlampiev, K., 2004m:81243**
Zabzine, Maxim *see* **Albertsson, Cecilia et al., 2004g:81253**
Zampini, Alessandro *see* **Lizzi, Fedele et al.**
Zandron, O. S. Topological five-dimensional Chern-Simons gravity theory in the canonical covariant formalism. (English summary) **2004k:81343**
Zanelli, Jorge *see* **Mišković, Olivera, 2004k:70025**
Zarembo, Konstantin *see* **Minahan, Joseph A., 2004d:81131**; **Semenoff, Gordon W., 2004e:81197** *and* **Beisert, Niklas et al., 2004m:81237**
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Zhu, Chuan-Jie *see* **Yu, Tian[1], 2004h:81259**
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Zolotukhina, S. G. Symmetries of polynomial equations of Yang-Mills type. (Russian. Russian summary) **2004i:53029**
Zucker, Max *see* **Lee, Hyun Min et al., 2004j:81177**
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81T15 Perturbative methods of renormalization

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Gegelia, Jambul *see* **Schindler, Matthias R. et al.**
Georgi, Howard *see* **Arkani-Hamed, Nima et al., 2004e:81089**
Giachetti, Riccardo *see* **Barducci, A., 2004h:81148**
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Gracia-Bondía, José M. Improved Epstein-Glaser renormalization in coordinate space. I. Euclidean framework. (English summary) **2004g:81155**
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Grimm, Thomas W. *see* **Schuller, Frederic P. et al., 2004i:81166**
Grisaru, Marcus T. (*with* Penati, Silvia; Romagnoni, Alberto) Two-loop renormalization for nonanticommutative $N = 1/2$ supersymmetric WZ model. (English summary) **2004h:81150**
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Kneur, Jean-Loic (*with* Reynaud, Damien) Renormalon disappearance in Borel sum of the $1/N$ expansion of the Gross-Neveu model mass gap. (English summary) **2004b:81117**
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Lazzarini, Serge (*with* Gracia-Bondía, José M.) Improved Epstein-Glaser renormalization. II. Lorentz invariant framework. (English summary) **2004k:81221**
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Mariz, T. *see* **Bazeia, D. et al., 2004d:81066**
Martelli, Dario (*with* Mück, Wolfgang) Holographic renormalization and Ward identities with the Hamilton-Jacobi method. (English summary) **2004c:81167**
Mück, Wolfgang Holographic renormalization and Ward identities with the Hamilton-Jacobi method. (English summary) **2004g:81156**
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Nascimento, J. R. S. *see* **Bazeia, D. et al., 2004d:81066**
Nemes, Maria Carolina *see* **Brizola, A. et al., 2004e:81090**
van Nieuwenhuizen, Peter *see* **Goldhaber, Alfred Scharff et al., 2004f:81155**
Nyffeler, Andreas *see* **Kunszt, Zoltan et al.**
Osborn, Hugh Local couplings and $\mathrm{SL}(2,\mathbb{R})$ invariance for gauge theories at one loop. (English summary) **2004c:81168**
Passos, E. *see* **Bazeia, D. et al., 2004d:81066**
Penati, Silvia *see* **Grisaru, Marcus T. et al., 2004h:81150**
Peris, Santiago *see* **Knecht, Marc et al.**
Perrottet, Michel *see* **Knecht, Marc et al.**
Przeszowski, Jerzy A. General axial gauge for the light-front Schwinger model. (English summary) **2004f:81157**
Puchwein, Martin *see* **Kunszt, Zoltan et al.**
Quadri, Andrea On a class of embeddings of massive Yang-Mills theory. (English summary) **2004k:81222**
de Rafael, Eduardo *see* **Knecht, Marc et al.**
Reinosa, Urko *see* **Blaizot, Jean-Paul et al., 2004h:81149**
Reynaud, Damien *see* **Kneur, Jean-Loic, 2004b:81117**
Ribeiro, R. F. *see* **Bazeia, D. et al., 2004d:81066**
Romagnoni, Alberto *see* **Grisaru, Marcus T. et al., 2004h:81150**
Sampaio, M. *see* **Brizola, A. et al., 2004e:81090**
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Wulkenhaar, Raimar *see* **Bozkaya, H. et al., 2004e:81205**
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81T16 Nonperturbative methods of renormalization

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Ünsal, Mithat *see* **Kovtun, Pavel et al., 2004m:81157**

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Verschelde, Henri *see* **Dudal, David et al., 2004j:81108**

Walet, Niels R. *see* **Rezaeian, Amir H.**

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Zerbini, Sergio *see* **Cognola, Guido**

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Wetterich, Christof *see* **Ballhausen, H. et al., 2004m:82043**
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81T18 Feynman diagrams

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Pereira, Saulo Hernrique *see* **Brandt, Fernando T. et al., 2004g:81288**
Petrov, A. Yu. *see* **Bukhbinder, I. L. et al., 2004b:81204**
Pitschmann, M. *see* **Bozkaya, H. et al., 2004e:81205**
Plefka, Jan Christoph *see* **Kristjansen, C. et al., 2004a:81227**
Puchwein, Martin *see* **Kunszt, Zoltan et al.**
Putz, V. *see* **Bozkaya, H. et al., 2004e:81205** *and* **Fischer, Peter, 2004k:81397**
Remiddi, E. *see* **Mastrolia, P., 2004c:81087**
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Schälicke, Andreas *see* **Gleisberg, Tanju et al.**
Schmidt, Alexandre G. M. *see* **Suzuki, A. T. et al., 2004k:81136**
Schnitzer, Howard J. *see* **Naculich, Stephen G. et al., 2004c:81279**
Schumann, Steffen *see* **Gleisberg, Tanju et al.**
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Semenoff, Gordon W. *see* **Kristjansen, C. et al., 2004a:81227**
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Sieg, Christoph *see* **Dorn, Harald, 2004j:81192**
Simula, S. *see* **Melikhov, D., 2004h:81101**
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Steinmann, Othmar What is the magnetic moment of the electron? (English summary) **2004j:81214**
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Taylor, John Clayton *see* **Brandt, Fernando T. et al., 2004g:81288**
van de Ven, Anton E. M. *see* **Börnsen, Jan-Peter, 2004b:81120**
Walter, Martin *see* **Groot Nibbelink, Stefan et al., 2004f:81178**
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Wyllard, Niclas *see* **Naculich, Stephen G. et al., 2004c:81279**
Yamada, Satoshi Perturbative expansion in DLCQ of field and string theories. (English summary) **2004e:81160**
(Yastrzhembsky, I.) *see* **Akhiezer, A. I., 2004b:81001**
Yee, Jae Hyung *see* **Rim, Chaiho, 2004k:81405**
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81T20 Quantum field theory on curved space backgrounds

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Epstein, Henri *see* **Bros, Jacques et al., 2004h:81156**
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Gazeau, Jean Pierre *see* **Garidi, Tarik et al., 2004k:81233**
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Higuchi, Atsushi (*with* Weeks, Richard H.) The physical graviton two-point function in de Sitter spacetime with S^3 spatial sections. (English summary) **2004e:81102**
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Hollands, S. (*with* Ruan, Weihua) The state space of perturbative quantum field theory in curved spacetimes. (English summary) **2004b:81128**
Hu, B. L. *see* **Phillips, Nicholas G., 2004g:81168**
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Schroer, Bert Lightfront holography and area density of entropy associated with localization on wedge-horizons. (English summary) **2004i:81174**

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Tok, T. *see* **Reinhardt, Hugo**

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Tort, A. C. *see* **Elizalde, Emilio et al., 2004c:81178** *and* **2004i:81168**

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Vitiello, Giuseppe *see* **Iorio, A. et al.**

Weeks, Richard H. *see* **Higuchi, Atsushi, 2004e:81102**

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Williams, Floyd L. *see* **Kevrekidis, Panayotis G. et al., 2004c:81180**

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Bezerra, Valdir B. *see* **Marques, Geusa de A., 2004i:83057**

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Chen, Chi-yi *see* **Shen, You-Gen et al., 2004b:83074**
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Duru, I. H. *see* **Ahmedov, Hadji, 2004j:81212**
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Fabris, J. C. *see* **Alvarenga, F. G. et al., 2004m:83044**
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Frauendiener, Jörg On the Velo-Zwanziger phenomenon. (English summary) **2004i:83080**
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Guan, Cheng-Bo *see* **Chang, Zhe et al., 2004b:81150**
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Guo, Han-Ying *see* **Chang, Zhe et al., 2004b:81150**
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Harris, Christopher M. (*with* Kanti, Panagiota) Hawking radiation from a $(4+n)$-dimensional black hole: exact results for the Schwarzschild phase. (English summary) **2004j:83101**
Hausel, Tamás *see* **Etesi, Gábor, 2004a:53030**
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Helayël-Neto, José A. *see* **Belich, H., Jr. et al., 2004h:81143**
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Hirsch, William H. *see* **Carlson, Eric D. et al., 2004g:83039**
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Jevicki, Antal *see* **Das, Sumit R., 2004k:81266**
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Kovtun, Pavel *see* **Clark, Adam et al., 2004k:81261**
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Kumar, Jason (*with* Rajaraman, Arvind) New supergravity solutions for branes in $AdS_3 \times S^3$. (English summary) **2004g:83141**
Kummer, Wolfgang *see* **Grumiller, Daniel et al., 2004g:83071**
Kunstatter, Gabor *see* **Barvinskiĭ, A. O. et al., 2004e:83027**
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Oliveira, A. L. N. *see* **Guimarães, M. E. X.**

Olum, Ken D. *see* **Schwartz-Perlov, Delia, 2004k:83042**

Orlando, M. T. D. *see* **Belich, H., Jr. et al., 2004h:81143**

Paban, Sonia *see* **Banks, Tom et al., 2004d:83023**

Padmanabhan, Thanu Why gravity has no choice: bulk spacetime dynamics is dictated by information entanglement across horizons. (English summary) **2004j:83070**

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Prester, P. *see* **Cvitan, M. et al., 2004i:83067**

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Rama, S. Kalyana *see* **Kaul, Romesh K., 2004k:83070**

Ramadevi, P. *see* **Das, Saurya et al., 2004e:83030**

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— Classical and quantum strings in plane waves, shock waves and space-time singularities: synthesis and new results. (English summary) **2004k:81313**

Sasaki, Misao *see* **Langlois, David, 2004k:83115**

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Sokołowski, Leszek M. *see* **Magnano, Guido, 2004e:83065**

Solodukhin, S. N. *see* **Birmingham, Danny et al., 2004i:81214**

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Tort, A. C. *see* **Elizalde, Emilio, 2004k:81224**

Toyota, Norihito *see* **Fujii, Kanji et al., 2004c:81101**

Troncoso, Ricardo *see* **Martínez, Cristián et al., 2004b:83068**

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Uchiyama, Satoshi *see* **Fujii, Kanji et al., 2004c:81101**

Ushakov, E. A. *see* **Grinchuk, A. V., 2004b:83091**

Vanzella, Daniel A. T. *see* **Matsas, George E. A., 2004b:83050**

Vasilevich, D. V. *see* **Grumiller, Daniel et al., 2004g:83071**

Verdaguer, Enric *see* **Hu, B. L., 2004b:83049**

Vergara, Lautaro *see* **Lepe, Samuel et al., 2004d:83039**

Vilasi, Gaetano *see* **Canfora, Fabrizio, 2004j:83061**

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81T25 Quantum field theory on lattices

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81T27 Continuum limits

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Terras, Véronique *see* **Lukyanov, Sergei L., 2004b:82014**
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Vicari, Ettore *see* **Caselle, Michele et al., 2004c:82020**
Wheater, John F. *see* **Caldeira, Alexandre F. et al., 2004j:81154**
Wu, Ke[1] *see* **Dai, Jian[1] et al., 2004g:81108**
Xiong, Chuan Sheng *see* **Dai, Jian[1] et al., 2004g:81108**
Zhou, Xian Yin *see* **Al'beverio, S. A. et al., 2004m:81146**

81T30 *String and superstring theories; other extended objects* (e.g., branes) [see also 83E30]

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Abel, Steven Adam (*with* Santiago, José; Masip, Manuel) Flavour changing neutral currents in intersecting brane models. (English summary) **2004e:81107**
— (*with* Owen, A. W.) CP violation and CKM predictions from discrete torsion. (English summary) **2004b:81135**
— (*with* Owen, A. W.) Interactions in intersecting brane models. (English summary) **2004k:81237**

Abou-Zeid, Mohab (*with* Costa, Miguel S.) D-Branestrahlung. (English summary) (*see* **2004d:81111**)
Acharya, Bobby S. (*with* De La Ossa, Xenia; Gukov, Sergei) G-flux, supersymmetry and Spin(7) manifolds. (English summary) **2004b:81136**
Adams, Allan (*with* Evslin, Jarah) The loop group of E_8 and K-theory from 11d. (English summary) **2004d:81080**
Adler, Stephen L. (*with* Horwitz, Lawrence P.) Global unitary fixing and matrix-valued correlations in matrix models. (English summary) **2004g:81173**
Aganagic, Mina (*with* Vafa, Cumrun) Mirror symmetry and a G_2 flop. (English summary) **2004m:81173**
Aisaka, Yuri (*with* Kazama, Yoichi) Operator mapping between RNS and extended pure spinor formalisms for superstring. (English summary) **2004i:81178**
Aleksandrova, Desislava (*with* Bozhilov, Plamen Lyubenov) On the classical string solutions and string/field theory duality. (English summary) **2004i:81179**
Alexander, Stephon H. S. Brane gas cosmology, M-theory and little string theory. (English summary) **2004k:81238**
Alexandrov, Sergei Yu. (*with* Kazakov, Vladimir Aleksandrovich[1]) Thermodynamics of 2D string theory. (English summary) **2004k:81239**
— (*with* Kazakov, Vladimir Aleksandrovich[1]; Kutasov, David) Non-perturbative effects in matrix models and D-branes. (English summary) **2004k:81240**
— (*with* Kazakov, Vladimir Aleksandrovich[1]; Kostov, Ivan K.) 2D string theory as normal matrix model. (English summary) **2004k:81241**
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— (*with* Sheikh-Jabbari, Mohammad M.; Tatar, Radu) Spacetime quotients, Penrose limits and restoration of conformal symmetry. (English summary) **2004b:81137**
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Álvarez, Enrique (*with* Conde, Jorge; Hernández, Lorenzo) Rudiments of holography. (English summary) **2004g:81174**
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— (*with* Sagnotti, Augusto) Type-I vacua and brane transmutation. (English summary) **2004g:81175**
— Type I string dynamics on magnetised backgrounds. (English summary) (*see* **2004d:81001**)
— Rotating D-branes and O-planes. (English summary)
— (*with* Antoniadis, Ignatios) Suppressing the cosmological constant in non-supersymmetric type I strings. (English summary) **2004j:81120**
Anguelova, Lilia (*with* Lazaroiu, Calin I.) M-theory on toric G_2 cones and its type II reduction. (English summary) **2004k:81242**
— (*with* Lazaroiu, Calin I.) Enhanced gauge symmetry from "toric" G_2 cones. (English summary) **2004m:81174**
— (*with* Lazaroiu, Calin I.) M-theory compactifications on certain "toric" cones of G_2 holonomy. (English summary) **2004g:81176**
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Antonov, D. V. SU(N) confining strings. (English summary) **2004i:81181**
Apreda, Rriccardo (*with* Bigazzi, Francesco; Cotrone, Aldo Lorenzo) Strings on pp-waves and hadrons in (softly broken) $\mathcal{N} = 1$ gauge theories. (English summary) **2004k:81244**
Aref'eva, Irina Ya. (*with* Belov, D. M.; Koshelev, Alexey S.; Medvedev, P. B.) Tachyon condensation in cubic superstring field theory. (English summary) **2004g:81177**
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— (*with* Koshelev, Alexey S.; Joukovskaya, Liudmila V.) Time evolution in superstring field theory on non-BPS brane. I. Rolling tachyon and energy-momentum conservation. (English summary) **2004i:81182**
Arkani-Hamed, Nima (*with* Cohen, Andrew Glen; Karch, Andreas; Motl, Luboš; Kaplan, David B.) Deconstructing $(2, 0)$ and little string theories. (English summary) **2004b:81139**
Armoni, Adi (*with* Frishman, Y.; Sonnenschein, Jacob) The string tension in two dimensional gauge theories. (English summary) **2004b:81140**
— (*with* Shifman, M.) The cosmological constant and domain walls in orientifold field theories and $\mathcal{N} = 1$ gluodynamics. (English summary)
— (*with* Shifman, M.) Remarks on stable and quasi-stable k-strings at large N. (English summary) **2004h:81167**
Arnowitt, R. (*with* Dent, James; Dutta, Bhaskar) Cosmology in Horava-Witten M-theory. (English summary) (*see* **2004d:81001**)
Arutyunov, Gleb E. (*with* Frolov, Sergei A.; Russo, Jorge G.; Tseytlin, Arkady A.) Spinning strings in $AdS_5 \times S^5$ and integrable systems. (English summary) **2004k:81245**
Arvidsson, Pär (*with* Flink, Erik; Henningson, Måns) Thomson scattering of chiral tensors and scalars against a self-dual string. (English summary) **2004a:81174**
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Asakawa, Tsuguhiko (*with* Sugimoto, Shigeki; Terashima, Seiji) Exact description of D-branes via tachyon condensation. (English summary) **2004j:81122**
— (*with* Kobayashi, Shinpei; Matsuura, So) Closed string field theory with dynamical D-brane. (English summary) **2004j:81121**
Asano, Masako (*with* Sekino, Yasuhiro; Yoneya, Tamiaki) PP-wave holography for Dp-brane backgrounds. (English summary) **2004k:81247**
Aspinwall, Paul S. (*with* Douglas, Michael R.) D-brane stability and monodromy. (English summary) **2004d:81081**
— (*with* Karp, Robert L.) Solitons in Seiberg-Witten theory and D-branes in the derived category. (English summary) **2004i:81183**
Austing, Peter (*with* Wheater, John F.; Vernizzi, Graziano) Polyakov lines in Yang-Mills matrix models. (English summary) **2004j:81123**
— (*with* Wheater, John F.) Adding a Myers term to the IIB matrix model. (English summary) **2004k:81248**
Axenides, Minos (*with* Floratos, Emmanuel; Kokorelis, Christos) SU(5) unified theories from intersecting branes. (English summary) **2004k:81249**
Bachas, Constantin P. Scales of string/M theory. (English summary) **2004g:81178**
— (*with* Hull, Christopher M.) Null brane intersections. (English summary) **2004k:81250**
— Relativistic string in a pulse. (English summary) **2004k:81251**
— (*with* Gaberdiel, Matthias R.) World-sheet duality for D-branes with travelling waves. (English summary) **2004m:81175**
Bailin, David Standard-like models from D-branes. (English summary) (*see* **2004d:81001**)
— (*with* Kraniotis, Georgios V.; Love, Alexander) Intersecting D5-brane models with massive vector-like leptons. (English summary) **2004g:81179**
Bain, Pascal On the non-abelian Born-Infeld action. (English summary) (*see* **2004d:81111**)
— (*with* Peeters, K.; Zamaklar, M.) D-branes in a plane wave from covariant open strings. (English summary) **2004g:81180**
Bak, Dongsu (*with* Sheikh-Jabbari, Mohammad M.) Strong evidence in favor of the existence of S-matrix for strings in plane waves. (English summary) **2004b:81141**
Balasubramanian, Vijay (*with* de Boer, Jan; Minic, Djordje) Notes on de Sitter space and holography. (English summary) **2004e:81109**
Bandos, Igor A. BPS preons and tensionless super-p-branes in generalized superspace. (English summary) **2004c:81186**
Bao, Wu-Jun (*with* Zhu, Chuan-Jie) Comments on two-loop four-particle amplitude in superstring theory. (English summary) **2004f:81169**
Barabanshchikov, A. V. Boundary σ model and corrections to D-brane actions. (English summary) **2004g:81181**
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Barbón, José L. F. (*with* Hoyos, Carlos) AdS/CFT, multitrace deformations and new instabilities of nonlocal string theories. (English summary) **2004m:81176**
Barbosa-Cendejas, Nandinii (*with* Herrera-Aguilar, Alfredo) O$(d + 1, d + n + 1)$-invariant formulation of stationary heterotic string theory. (English summary) **2004b:81142**
Barosi, Luciano (*with* Tello, Carlos) GSO$(-)$ vertex operators and open superstring field theory in hybrid variables. (English summary) **2004f:81170**
Bars, Itzhak (*with* Kishimoto, Isao; Matsuo, Yutaka) String amplitudes from Moyal string field theory. (English summary) **2004h:81169**
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Bassetto, Antonio (*with* Torrielli, Alessandro; Valandro, Roberto) One-loop unitarity of string theories in a constant external background and their Seiberg-Witten limit. (English summary) **2004m:81177**
Battye, Richard A. *see* **Carter, Brandon et al.**, **2004e:81114**
(Baulieu, Laurent) *see* **Progress in string theory and M-theory**, **2004d:81111**
Beasley, Chris E. BPS branes from baryons. (English summary) **2004e:81110**
Beccaria, Matteo (*with* Rampino, Carlo) Level truncation and the quartic tachyon coupling. (English summary) **2004j:81124**
Becker, Katrin (*with* Dasgupta, Keshav) Heterotic strings with torsion. (English summary) **2004h:81170**
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— (*with* Becker, Melanie; Dasgupta, Keshav; Prokushkin, S. F.) Properties of heterotic vacua from superpotentials. (English summary) **2004i:81184**
Becker, Melanie (*with* Constantin, Dragoș) A note on flux induced superpotentials in string theory. (English summary) **2004m:81178**
— *see also* **Becker, Katrin et al.**, **2004h:81171** *and* **2004i:81184**
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— (*with* Cvetič, Mirjam) Supersymmetric intersecting D6-branes and fluxes in massive type IIA string theory. (English summary) **2004j:81125**
Belaloui, N. (*with* Bennacer, H.) Poincaré algebra and space-time critical dimensions for parabosonic strings. (English summary) **2004k:81252**
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Belhaj, Adil (*with* Drissi, L. B.; Rasmussen, Jørgen) On $N = 1$ gauge models from geometric engineering in M-theory. (English summary) **2004j:81126**
— F-theory duals of M-theory on G_2 manifolds from mirror symmetry. (English summary) **2004j:81127**
Bellucci, Stefano (*with* Sochichiu, Corneliu) Can string bits be supersymmetric? (English summary) **2004h:81172**
Belov, D. M. (*with* Konechny, Anatoly) On spectral density of Neumann matrices. (English summary) **2004b:81143**
— *see also* **Aref'eva, Irina Ya. et al.**, **2004g:81177**
Bena, Iosif Polarization of F1 strings into D2 branes. (English summary) **2004c:81188**
Benakli, K. *see* **Antoniadis, Ignatios et al.**, **2004b:81138**
Bengtsson, Ingemar (*with* Zheltukhin, A. A.) Wess-Zumino actions and Dirichlet boundary conditions for super p-branes with exotic fractions of supersymmetry. (English

summary) **2004h:81173**

Bennacer, H. *see* **Belaloui, N., 2004k:81252**

Berenstein, David (*with* Herzog, Christopher P.; Klebanov, Igor R.) Baryon spectra and AdS/CFT correspondence. (English summary) **2004c:81189**

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Berg, Marcus (*with* Haack, Michael; Samtleben, Henning) Calabi-Yau fourfolds with flux and supersymmetry breaking. (English summary) **2004c:81190**

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Berman, David S. Aspects of M-5 brane world volume dynamics. (English summary) **2004m:81179**

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Bezerra de Mello, Eugênio R. (*with* Brihaye, Yves; Hartmann, Betti) Strings in de Sitter space. (English summary) **2004h:81174**

Bhattacharya, Somdatta (*with* Roy, Shibaji) More on Penrose limits and non-local theories. (English summary) **2004h:81175**

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Bjerrum-Bohr, N. E. J. Generalized string theory mapping relations between gravity and gauge theory. (English summary) **2004h:81176**

— String theory and the mapping of gravity into gauge theory. (English summary) **2004c:81192**

Blum, Julie D. Triple intersections and geometric transitions. (English summary) **2004b:81145**

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Bonelli, Giulio Matrix strings in pp-wave backgrounds from deformed super Yang-Mills theory. (English summary) **2004a:81175**

— Matrix string theory on pp-waves. (English summary) **2004g:81184**

— On type II strings in exact superconformal non-constant RR backgrounds. (English summary) **2004d:81083**

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Bonora, Loriano (*with* Mamone, Davide; Salizzoni, Mario) GMS solitons from vacuum string field theory. (English summary) **2004h:81179**

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Borunda, M. (*with* Serone, M.; Trapletti, M.) On the quantum stability of type IIB orbifold and orientifolds with Scherk-Schwarz SUSY breaking. (English summary) **2004h:81180**

Boschi-Filho, Henrique (*with* Braga, Nelson R. F.) Gauge/string duality and scalar glueball mass ratios. (English summary) **2004e:81113**

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Bozhilov, Plamen Lyubenov Probe branes dynamics in nonconstant background fields. (English summary) (*see* **2004d:83002**)

— Probe branes dynamics: exact solutions in general backgrounds. (English summary) **2004c:81193**

— *see also* **Aleksandrova, Desislava, 2004i:81179**

Braga, Nelson R. F. (*with* Godinho, Cresus F. L.) Fermionic anticommutators for open superstrings in the presence of antisymmetric tensor field. (English summary) **2004g:81185**

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Braun, Volker On Berenstein-Douglas-Seiberg duality. (English summary) **2004f:81172**

Brax, Philippe (*with* Mourad, J.; Steer, Danièle A.) Tachyon kinks on non-BPS D-branes. (English summary)

Brecher, Dominic (*with* Johnson, Clifford V.; Lovis, Kenneth J.; Myers, Robert C.) Penrose limits, deformed pp-waves and the string duals of $\mathcal{N} = 1$ large-N gauge theory. (English summary) **2004k:81253**

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Bredthauer, Andreas (*with* Lindström, Ulf; Persson, Jonas) SL(2, $\mathbb{Z}$) tensionless string backgrounds in IIB string theory. (English summary) **2004c:81194**

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Brihaye, Yves *see* **Bezerra de Mello, Eugênio R. et al., 2004h:81174**

Brower, Richard C. (*with* Lowe, David A.; Tan, Chung-I) Hagedorn transition for strings on pp-waves and tori with chemical potentials. (English summary) **2004c:81195**

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Buchel, Alex (*with* Walcher, Johannes) The tachyon does matter. (English summary)

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Bukhbinder, E. I. (*with* Donagi, Ron; Ovrut, Burt A.) Vector bundle moduli superpotentials in heterotic superstrings and M-theory. (English summary) **2004a:81176**

— (*with* Donagi, Ron; Ovrut, Burt A.) Superpotentials for vector bundle moduli. (English summary) **2004a:81177**

Burgess, Clifford P. (*with* Martineau, Patrick[1]; Quevedo, Fernando; Zavala C., Ivonne; Tasinato, Gianmassimo) Instabilities and particle production in S-brane geometries. (English summary) **2004c:81196**

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Caldarelli, Marco M. (*with* Silva, Pedro J.) Multi giant graviton systems, SUSY breaking and CFT. (English summary) **2004k:81256**

Cardoso, Gabriel Lopes (*with* Curio, Gottfried; Dall'Agata, Gianguido; Lüst, Dieter; Manousselis, P.; Zoupanos, G.) Non-Kähler string backgrounds and their five torsion classes. (English summary) **2004k:81257**

Carlini Vallilo, Brenno One loop conformal invariance of the superstring in an $AdS_5 \times S^5$ background. (English summary) **2004b:81148**

— Flat currents in the classical $AdS_5 \times S^5$ pure spinor superstring. (English summary)

Carter, Brandon (*with* Battye, Richard A.; Uzan, Jean-Philippe) Gradient formula for linearly self-interacting branes. (English summary) **2004e:81114**

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Chattaraputi, Auttakit (*with* Englert, François; Houart, Laurent; Taormina, Anne) The bosonic mother of fermionic D-branes. (English summary) **2004e:81115**

Chechin, L. M. On nonlinear equations of motion of relativistic strings. (Russian. English, Russian and Kazakh summaries) **2004a:81179**

Chekhov, L. O. (*with* Mironov, A. D.) Matrix models vs. Seiberg-Witten/Whitham theories. (English summary) **2004e:81116**

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Cheung, Yeuk-Kwan E. (*with* Oz, Yaron; Yin, Zheng[1]) Families of $N = 2$ strings. (English summary) **2004k:81260**

Chialva, Diego (*with* Iengo, Roberto; Russo, Jorge G.) Decay of long-lived massive closed superstring states: exact results. (English summary) **2004m:81184**

Cho, Jin-Ho (*with* Oh, Phillial) Supersymmetric boost on intersecting D-branes. (English summary) **2004b:81151**

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Cvetič, Mirjam (*with* Gibbons, Gary W.; Liu, James T.; Lü, Hong[1]; Pope, C. N.) A new fractional D2-brane, G_2 holonomy and T-duality. (English summary) **2004a:81182**
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Dasgupta, Keshav (*with* Oh, Kyungho; Tatar, Radu) Open/closed string dualities and Seiberg duality from geometric transitions in M-theory. (English summary) **2004a:81183**
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Deo, B. B. A new type of superstring in four dimensions. (English summary) **2004e:81119**
DeWolfe, Oliver (*with* Freedman, Daniel Z.; Ooguri, Hirosi) Holography and defect conformal field theories. (English summary) **2004a:81185**
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Di Vecchia, Paolo (*with* Enger, H.; Imeroni, Emiliano; Lozano-Tellechea, Ernesto) Gauge theories from wrapped and fractional branes. (English summary) **2004c:81199**
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Donagi, Ron *see* **Bukhbinder, E. I. et al., 2004a:81176** *and* **2004a:81177**
Donos, Aristomenis *see* **de Mello Koch, Robert et al., 2004k:81303**
Doran, Charles F. (*with* Faux, Michael) Intersecting branes in M-theory and chiral matter in four dimensions. (English summary) **2004a:81186**
— (*with* Faux, Michael) A "periodic table" for supersymmetric M-theory compactifications. (English summary) **2004j:81131**
Douglas, Michael R. D-branes on Calabi-Yau manifolds. (English summary) **2004d:81090**
— Lectures on D-branes on Calabi-Yau manifolds. (English summary) **2004e:81120**
— Dirichlet branes, homological mirror symmetry, and stability. (English summary) **2004c:81200**
— D-branes and $\mathcal{N} = 1$ supersymmetry. (English summary) **2004a:81187**
— String compactification with $\mathcal{N} = 1$ supersymmetry. (English summary) **2004g:81190**
— The statistics of string/M theory vacua. (English summary) **2004k:81268**
— *see also* **Aspinwall, Paul S., 2004d:81081**
Dragović, Branko G. p-adic and adelic strings. (English summary) **2004g:81191**
Drissi, L. B. *see* **Belhaj, Adil et al., 2004j:81126**
Drukker, Nadav On different actions for the vacuum of bosonic string field theory. (English summary) **2004h:81185**
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Durin, Bruno (*with* Pioline, Boris) Open strings in relativistic ion traps. (English summary) **2004f:81176**
Dutta, Bhaskar *see* **Arnowitt, R. et al., (2004d:81001)**
Dvali, Gia (*with* Vilenkin, Alexander) Solitonic D-branes and brane annihilation. (English summary) **2004b:81160**
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Eenink, Martijn G. C. *see* **Collinucci, Andres et al., 2004b:81152** *and* **de Roo, Mees, 2004h:81203**
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Elitzur, Shmuel (*with* Giveon, Amit; Rabinovici, Eliezer) Removing singularities. (English summary) **2004d:81091**
Ellwood, Ian (*with* Shelton, Jessie; Taylor, Washington) Tadpoles and closed string backgrounds in open string field theory. (English summary) **2004g:81192**
Enger, H. *see* **Di Vecchia, Paolo et al., 2004c:81199**
Englert, François *see* **Chattaraputi, Auttakit et al., 2004e:81115**
Ennyu, Daiji (*with* Kawabe, Hiroshi; Nakazawa, Naohito) Note on a closed string field theory from bosonic IIB matrix model. (English summary) **2004c:81201**
Erdmenger, Johanna *see* **Constable, Neil R. et al., 2004g:81188** *and* **2004g:81189**
Espriu, Domènec *see* **Andrianov, A. A.**
Evslin, Jarah (*with* Varadarajan, Uday) K-theory and S-duality: starting over from square 3. (English summary) **2004c:81202**
— Twisted K-theory from monodromies. (English summary) **2004j:81132**
— IIB soliton spectra with all fluxes activated. (English summary) **2004h:81187**
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— Phenomenological survey of M-theory. (English summary) (*see* **2004m:83003**)

Faux, Michael (*with* Lüst, Dieter; Ovrut, Burt A.) Phase-transitions and tensor dynamics in M-theory. (English summary) **2004h:81188**

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— (*with* Franco, Sebastián; Hanany, Amihay; He, Yang Hui) Unhiggsing the del Pezzo. (English summary) **2004i:81191**

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Filev, V. *see* **Dimov, H. et al., 2004k:81267**

Fiol, Bartomeu *see* **Cachazo, Freddy et al., 2004d:81084**

Firouzjahi, Hassan *see* **Cline, James M.**

Flink, Erik *see* **Arvidsson, Pär et al., 2004a:81174**; **2004f:81168** *and* **2004k:81246**

Floratos, Emmanuel *see* **Axenides, Minos et al., 2004k:81249**

Florea, Bogdan *see* **De La Ossa, Xenia et al., 2004d:81105**

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Fotopoulos, Angelo (*with* Tseytlin, Arkady A.) On gravitational couplings in D-brane action. (English summary) **2004e:81126**

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Frampton, Paul H. (*with* Kephart, Thomas W.) Consistency conditions for AdS/CFT embeddings. (English summary) **2004k:81270**

Franco, Sebastián *see* **Feng, Bo[1] et al., 2004e:81124** *and* **2004i:81191**

Frau, Marialuisa (*with* Gallot, L.; Lerda, Alberto; Strigazzi, P.) Non-BPS-D-branes of Type I. (English summary) **2004g:81197**

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Frishman, Y. *see* **Armoni, Adi et al., 2004b:81140**

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Fuchs, Ehud (*with* Kroyter, Michael; Marcus, Alon) Continuous half-string representation of string field theory. (English summary) **2004k:81271**

Fucito, Francesco *see* **Billó, Marco et al., 2004e:81112**

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Furuta, Ko *see* **Chen, Bin[5] et al., 2004m:81183**

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Gaiotto, Davide (*with* Rastelli, Leonardo) Experimental string field theory. (English summary) **2004h:81191**

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Gallot, L. *see* **Frau, Marialuisa et al., 2004g:81197**

Ganjali, Mohammad A. *see* **Alishahiha, Mohsen et al., 2004f:81167**

Ganor, Ori J. *see* **Alishahiha, Mohsen, 2004f:81166**

Garavuso, Richard S. *see* **Faraggi, Alon E. et al., 2004g:81194** *and* **(2004d:81001)**

García del Moral, M. P. *see* **De Castro, A. et al.**

Garousi, Mohammad R. Off-shell extension of S-matrix elements and tachyonic effective actions. (English summary) **2004d:81092**

— Slowly varying tachyon and tachyon potential. (English summary) **2004e:81127**

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Gava, Edi (*with* Narain, Kumar S.) Proving the PP-wave/CFT_2 duality. (English summary) **2004k:81273**

Geller, Ben *see* **Conley, John Anthony et al., 2004b:81153**

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Gfeller, Adrian *see* **Bietenholz, Wolfgang et al.**

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Gorbatov, Elie (*with* Kaplunovsky, Vadim S.; Sonnenschein, Jacob; Theisen, Stefan; Yankielowicz, Shimon) On heterotic orbifolds, M theory and type I′ brane engineering. (English summary) **2004d:81094**

Gorkavenko, Volodymyr M. *see* **Sitenko, Yurii A., 2004e:81158**

Görlich, Lars *see* **Blumenhagen, Ralph et al., 2004d:81082**

Gorskiĭ, A. S. (*with* Shifman, M.) Testing the nonperturbative orbifold conjecture. (English summary) **2004c:81206**

Govindarajan, Suresh (*with* Jayaraman, T.) D-branes and vector bundles on Calabi-Yau manifolds: a view from the helix. (English summary) **2004a:81191**

Gowdigere, Chethan N. (*with* Warner, Nicholas P.) Flowing with eight supersymmetries in M-theory and F-theory. (English summary) **2004k:81274**

Graesser, Michael *see* **Anisimov, Alexey et al., 2004c:81185**

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— (*with* Frey, Andrew R.) BPS states of strings in 3-form flux. (English summary) **2004c:81207**

Grandi, Nicolas Esteban (*with* Lugo, Adrián R.) Supertubes and special holonomy. (English summary) **2004c:81208**

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Guo, Han-Ying *see* **Chang, Zhe et al., 2004b:81150**

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Hartmann, Betti *see* **Bezerra de Mello, Eugênio R. et al., 2004h:81174**

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Hata, Hiroyuki (*with* Moriyama, Sanefumi) Reexamining classical solution and tachyon mode in vacuum string field theory. (English summary) **2004h:81196**

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He, Yang Hui G_2 quivers. (English summary) **2004d:81095**

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Headrick, Matthew *see* **Constable, Neil R. et al., 2004a:81180**

Helfgott, Craig *see* **Halpern, Martin B., 2004k:81277**

Henningson, Måns *see* **Arvidsson, Pär et al., 2004a:81174**; **2004f:81168** *and* **2004k:81246**

Henry-Labordère, Pierre (*with* Julia, Bernard; Paulot, Louis) Real Borcherds superalgebras and M-theory. (English summary) **2004k:81281**

Hernández, Lorenzo *see* **Álvarez, Enrique et al., 2004g:81174**

Herrera-Aguilar, Alfredo (*with* Kechkin, Oleg V.) Kalb-Ramond dipole solution in low-energy bosonic string theory. (English summary) **2004b:81164**

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Herzog, Christopher P. The hydrodynamics of M-theory. (English summary) **2004a:81193**

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— Sound of M theory. (English summary) **2004j:81139**

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Hikida, Yasuaki (*with* Yamaguchi, Satoshi[2]) D-branes in PP-waves and massive theories on worldsheet with boundary. (English summary) **2004c:81213**

Ho, Pei-Ming *see* **Hashimoto, Koji et al., 2004j:81138**

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Horata, Shinichi *see* **Hamada, Ken-ji, 2004m:81194**

Hori, Kentaro (*with* Kapustin, Anton) Worldsheet descriptions of wrapped NS five-branes. (English summary) **2004g:81205**

Horowitz, Gary T. *see* **Hertog, Thomas et al., 2004e:81137**

Horwitz, Lawrence P. *see* **Adler, Stephen L., 2004g:81173**

Hotta, Kenji Brane-antibrane systems at finite temperature and phase transition near the Hagedorn temperature. (English summary) **2004a:81194**

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Hou, Bo Yu *see* **Wang, Xiao-Hui et al., 2004m:81220**

Houart, Laurent *see* **Chattaraputi, Auttakit et al., 2004e:81115**

Hoyos, Carlos *see* **Barbón, José L. F., 2004m:81176**

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Huiszoon, L. R. Comments on the classification of orientifolds. (English summary) **2004g:81206**

Hull, Christopher M. Beyond geometry: gravity and M-theory above the Planck scale. (English summary) **2004g:81207**

— *see also* **Bachas, Constantin P., 2004k:81250**

Husain, Tasneem Zehra That's a wrap! (English summary) **2004g:81208**

— A brane teaser. (English summary) **2004m:81195**

Hyakutake, Yoshifumi D-brane anti-D-brane system in string theory. (English summary) **2004m:81196**

— Expanded strings in the background of NS5-branes. (English and Russian summaries)

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Ibáñez, Luis E. *see* **Cremades, Daniel et al., 2004a:81181** *and* **2004i:81189**

Iengo, Roberto (*with* Russo, Jorge G.) Semiclassical decay of strings with maximum angular momentum. (English summary) **2004c:81214**

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Imai, Takaaki (*with* Kitazawa, Yoshihisa; Takayama, Yastoshi; Tomino, Dan) Effective actions of matrix models on homogeneous spaces. (English summary) **2004k:81284**

Imamura, Yosuke Open string-BMN operator correspondence in the weak coupling regime. (English summary) **2004i:81196**

Imbimbo, C. *see* **Giusto, S., 2004j:81135**

Imeroni, Emiliano (*with* Lerda, Alberto) Non-perturbative gauge superpotentials from supergravity. (English summary) **2004k:81285**

— *see also* **Di Vecchia, Paolo et al., 2004c:81199**

Intriligator, Ken *see* **Cachazo, Freddy et al., 2004d:81084**

Iqbal, Amer (*with* Neitzke, Andrew; Vafa, Cumrun) A mysterious duality. (English summary) **2004e:81138**

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Ishida, Akira (*with* Uehara, Shozo) Rolling down to D-brane and tachyon matter. (English summary) **2004c:81215**

Isidro, José María[2] *see* **Faraggi, Alon E. et al., (2004d:81001)**

Israël, Dan (*with* Kounnas, Costas; Petropoulos, P. Marios) Superstrings on NS5 backgrounds, deformed AdS_3 and holography. (English summary) **2004k:81286**

Ito, Katsushi *see* **Fuji, Hiroyuki et al., 2004a:81189**

Itoh, Taichi (*with* Sin, Sang-Jin) Classification and quantum moduli space of D-branes in group manifolds. (English summary) **2004a:81195**

Itzhaki, Nissan *see* **Gaiotto, Davide et al.**

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Jaskólski, Zbigniew *see* **Hadasz, Leszek, 2004k:81276**

Jayaraman, T. *see* **Govindarajan, Suresh, 2004a:81191**

Jevicki, Antal *see* **Das, Sumit R., 2004k:81266** *and* **de Mello Koch, Robert et al., 2004k:81303**

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Jing, Jiliang (*with* Wang, Shiliang) Can Martinez's conjecture be extended to string theory? (English summary) **2004b:81167**

Johnson, Clifford V. ★ D-branes. **2004b:81168**

— *see also* **Brecher, Dominic et al., 2004k:81253**

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Joukovskaya, Liudmila V. *see* **Aref'eva, Irina Ya. et al., 2004i:81182**

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Kachru, Shamit (*with* Schulz, Michael Brian; Tripathy, Prasanta K.; Trivedi, Sandip P.) New supersymmetric string compactifications. (English summary) **2004k:81287**
Kaganovich, Alexander *see* **Guendelman, Eduardo I. et al.**, (**2004d:83002**)
Kajiura, Hiroshige Homotopy algebra morphism and geometry of classical string field theories. (English summary) **2004b:81170**
Kaku, Michio Highlights of supersymmetry, superstrings, and M-theory. (English summary)
Kakushadze, Zurab On gauge dynamics and SUSY breaking in orientiworld. (English summary) **2004e:81139**
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Kallosh, Renata *see* **Dvali, Gia et al.**, **2004m:81187**
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Kamenshchik, A. Yu. (*with* Khalatnikov, Isaak M.; Martellini, Maurizio) Remarks about UV regularization of basic commutators in string theories. (English summary) **2004b:81171**
Kamimura, Kiyoshi (*with* Sakaguchi, Makoto) osp(1|32) and extensions of super-$AdS_5 \times S^5$ algebra. (English summary) **2004g:81210**
Kanno, Hiroaki *see* **Eguchi, Tohru**, **2004m:81188**
Kao, Hsien-Chung (*with* Lee, Jen-Chi) Decoupling of degenerate positive-norm states in Witten's string field theory. (English summary) **2004e:81140**
Kaplan, David B. *see* **Arkani-Hamed, Nima et al.**, **2004b:81139**
Kaplunovsky, Vadim S. *see* **Gorbatov, Elie et al.**, **2004d:81094**
Kapustin, Anton *see* **Hori, Kentaro**, **2004g:81205**
Karatheodoris, G. (*with* Pinzul, A.; Stern, Allen) Fate of the Born-Infeld solution in string theory. (English summary) **2004e:81141**
Karch, Andreas (*with* Katz, A.) Adding flavor to AdS/CFT. (English summary)
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Karp, Robert L. *see* **Aspinwall, Paul S.**, **2004i:81183**
Kaste, Peter (*with* Minasian, Ruben; Petrini, Michela; Tomasiello, Alessandro) Nontrivial RR two-form field strength and SU(3)-structure. (English summary) **2004g:81211**
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Katagiri, Yasutaka (*with* Kitazawa, Noriaki) Fermionic zeromodes in heterotic fivebrane backgrounds. (English summary) **2004k:81288**
Kato, Akishi D-brane actions on Kähler manifolds. (English summary) **2004e:81142**
Katz, A. *see* **Karch, Andreas**
Katz, Sheldon H. *see* **Cachazo, Freddy et al.**, **2004d:81084**
Kaul, Romesh K. Black hole entropy from a highly excited elementary string. (English summary)
Kawabe, Hiroshi *see* **Ennyu, Daiji et al.**, **2004c:81201**
Kawai, Hikaru (*with* Kawamoto, Shoichi; Kuroki, Tsunehide; Shinohara, Shun'ichi) Improved perturbation theory and four-dimensional space-time in the IIB matrix model. (English summary) **2004b:81172**
Kawamoto, Shoichi *see* **Kawai, Hikaru et al.**, **2004b:81172**
Kazakov, Vladimir Aleksandrovich[1] *see* **Alexandrov, Sergei Yu. et al.**, **2004k:81239**; **2004k:81240** *and* **2004k:81241**
Kazama, Yoichi *see* **Aisaka, Yuri**, **2004i:81178**
Kechkin, Oleg V. Asymptotically flat soliton solutions in bosonic string theory. (English summary) **2004i:81197**
— *see also* **Herrera-Aguilar, Alfredo**, **2004b:81164**
Kennaway, Kristian D. A geometrical construction of rational boundary states in linear sigma models. (English summary) **2004g:81212**
Kephart, Thomas W. *see* **Frampton, Paul H.**, **2004k:81270**
Ketov, Sergei V. Holographic duality, supersymmetry, and Painlevé equation. (English summary) **2004g:81213**
— (*with* Leonhardt, Thorsten; Rühl, Werner) Engineering a bosonic AdS/CFT correspondence. (English summary) **2004j:81141**
— More on the gauge-fixed D3-brane action with dilaton-axion coupling from $N = 1$ superspace. (English summary)
— D-instantons and matter hypermultiplet. (English summary) **2004c:81216**
— *see also* **Cheshel, Andrei**, **2004c:81197**
Keurentjes, Arjan (*with* Sethi, Savdeep) Twisting E_8 five-branes. (English summary) **2004c:81217**
Khalatnikov, Isaak M. *see* **Kamenshchik, A. Yu. et al.**, **2004b:81171**
Khoze, Valentin V. From branes to branes. (English summary) **2004k:81289**
— *see also* **Chu, Chong-Sun et al.**, **2004d:81085**; **2004e:81117** *and* **Georgiou, George**, **2004e:81128**
Kim, Chanju (*with* Kim, Hang Bae; Kim, Yoonbai; Kwon, O-Kab) Electromagnetic string fluid in rolling tachyon. (English summary) **2004c:81218**
— (*with* Kim, Yoonbai; Lee, Chong Oh) Tachyon kinks. (English summary) **2004f:81182**
— (*with* Kim, Yoonbai; Kwon, O-Kab; Yi, Piljin) Tachyon tube and supertube. (English summary) **2004j:81142**
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Kim, Hang Bae *see* **Kim, Chanju et al.**, **2004c:81218**
Kim, Jihn E. SU(3) trits of orbifolded $E_8 \times E_8'$ heterotic string and supersymmetric standard model. (English summary) **2004m:81198**
Kim, Jongwook (*with* Lee, Bum-Hoon; Yang, Hyun Seok) Superstrings and D-branes in a plane wave. (English summary) **2004j:81143**
Kim, Seok (*with* Lee, Kimyeong) Dyonic instanton as supertube between D4-branes. (English summary) **2004j:81144**
Kim, Yeonjung (*with* Park, Jaemo) Boundary states in IIA plane wave background. (English summary) **2004i:81198**
Kim, Yoonbai *see* **Kim, Chanju et al.**, **2004c:81218**; **2004f:81182**; **2004j:81142** *and* **2004k:81290**
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— D-branes in standard model building, gravity and cosmology. (English summary)
Kirsch, Ingo *see* **Constable, Neil R. et al.**, **2004g:81188** *and* **2004g:81189**
Kishimoto, Isao *see* **Bars, Itzhak et al.**, **2004h:81168** *and* **2004h:81169**
Kitazawa, Noriaki Fermion propagators in type II fivebrane backgrounds. (English summary) **2004j:81145**
— *see also* **Katagiri, Yasutaka**, **2004k:81288**
Kitazawa, Yoshihisa *see* **Imai, Takaaki et al.**, **2004k:81284**
Kitsunezaki, Naofumi (*with* Uehara, Shozo) Representation of $SU(\infty)$ algebra for matrix models. (English summary) **2004a:81198**
Klebanov, Igor R. (*with* Herzog, Christopher P.; Ouyang, Hua Jiang) D-branes on the conifold and $\mathcal{N} = 1$ gauge/gravity dualities. (English summary) **2004k:81291**
— (*with* Maldacena, Juan; Seiberg, Nathan) D-brane decay in two-dimensional string theory. (English summary) **2004j:81146**
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Kling, Alexander (*with* Lechtenfeld, Olaf; Popov, A. D.; Uhlmann, Sebastian) Solving string field equations: new uses for old tools. (English summary) **2004g:81214**
— (*with* Uhlmann, Sebastian) String field theory vertices for fermions of integral weight. (English summary) **2004i:81199**
Klose, Thomas Conformal dimensions of two-derivative BMN operators. (English summary) **2004c:81219**
Klusoň, Josef Marginal deformations in the open bosonic string field theory for N D0 branes. (English summary) **2004c:81220**
— Note on D-brane effective action in the linear dilaton background. (English summary) **2004k:81292**
— The Schrödinger wave functional and closed string rolling tachyon. (English summary)
— D-brane effective actions and particle production near the beginning of tachyon condensation. (English summary) **2004m:81199**
Kobayashi, Shinpei *see* **Asakawa, Tsuguhiko et al.**, **2004j:81121**
Kobayashi, Tatsuo (*with* Nakano, Hiroaki; Noguchi, Tatsuya; Terao, Haruhiko) Yukawa hierarchy transfer based on superconformal dynamics and geometrical realization in string models. (English summary) **2004b:81173**
— (*with* Lebedev, Oleg Valerievich) Heterotic Yukawa couplings and continuous Wilson lines. (English summary)
— *see also* **Higaki, Tetsutaro**, **2004k:81282**
Kogan, Ian I. (*with* Polyakov, Dimitri) DBI action from closed strings and D-brane second quantization. (English summary) **2004e:81143**
Kogetsu, Hisashi *see* **Hata, Hiroyuki et al.**, **2004k:81279**
Kokorelis, Christos Constraint supersymmetry breaking and non-perturbative effects in string theory. (English summary) (*see* **2004g:83002**)
— GUT model hierarchies from intersecting branes. (English summary) **2004b:81174**
— Deformed intersecting D6-brane GUTS. I. (English summary) **2004a:81199**
— Exact standard model structures from intersecting branes. (English summary) (*see* **2004d:81001**)
— *see also* **Axenides, Minos et al.**, **2004k:81249**
Konechny, Anatoly *see* **Belov, D. M.**, **2004b:81143**
Körs, Boris The quintic standard model. (English summary)
— (*with* Nath, Pran) Effective action and soft supersymmetry breaking for intersecting D-brane models. (English summary) **2004k:81293**
Koshelev, Alexey S. *see* **Aref'eva, Irina Ya. et al.**, **2004g:81177** *and* **2004i:81182**
Kostov, Ivan K. Integrable flows in $c = 1$ string theory. (English summary) **2004h:81198**
— *see also* **Alexandrov, Sergei Yu. et al.**, **2004k:81241**
Kounnas, Costas *see* **Kiritsis, Elias et al.**, **2004a:81197** *and* **Israël, Dan et al.**, **2004k:81286**
Kovtun, Pavel *see* **Clark, Adam et al.**, **2004k:81261**
Koyama, Kazuya *see* **Shiromizu, Tetsuya et al.**
Kraniotis, Georgios V. *see* **Bailin, David et al.**, **2004g:81179**
Kraus, Per (*with* Shigemori, Masaki) On the matter of the Dijkgraaf-Vafa conjecture. (English summary) **2004e:81144**
Krause, Axel On the flattening of negative curvature via T-duality with a non-constant B-field. (English summary)
— *see also* **Curio, Gottfried**, **2004i:81190**
Kristiansson, Fredric *see* **Danielsson, Ulf H. et al.**, **2004j:81129**
Kroyter, Michael *see* **Fuchs, Ehud et al.**, **2004k:81271**
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Kulik, Bogdan (*with* Roiban, Radu) T-duality of the Green-Schwarz superstring. (English summary) **2004a:81200**
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Kunze, Kerstin E. Stochastic inflation on the brane. (English summary)
Kuperstein, Stanislav On Penrose limit of elliptic branes. (English summary) **2004f:81183**
Kuroki, Tsunehide *see* **Kawai, Hikaru et al.**, **2004b:81172**
Kutasov, David Introduction to little string theory. (English summary) **2004i:81201**
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Kyritsis, Konstantinos *see* **Chu, Chong-Sun**, **2004e:81118**
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Lambert, Neil D. (*with* Sachs, Ivo) Tachyon dynamics and the effective action approximation. (English summary) **2004c:81221**
— Moduli and brane intersections. (English summary) **2004b:81175**
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Langacker, Paul *see* **Cvetič, Mirjam et al.**, **2004d:81087**

Larosa, M. (*with* Pradisi, Gianfranco) Magnetized four-dimensional $Z_2 \times Z_2$ orientifolds. (English summary) **2004g:81216**
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— *see also* **Constable, Neil R.**, **2004i:81188**
Larsson, Henric An M-theory solution generating technique and SL(2, $\mathbb{R}$). (English summary) **2004c:81222**
Laugier, Alexandre *see* **Antoniadis, Ignatios et al.**, **2004b:81138**
Lazaroiu, Calin I. D-brane categories. (English summary) **2004j:81147**
— *see also* **Landsteiner, Karl**, **2004e:81145**; **Anguelova, Lilia**, **2004g:81176**; **2004k:81242** *and* **2004m:81174**
Lebedev, Oleg Valerievich *see* **Kobayashi, Tatsuo**
Leblond, Louis *see* **Jones, Nicholas T. et al.**
Lechtenfeld, Olaf *see* **Kling, Alexander et al.**, **2004g:81214**
Lee, Bum-Hoon *see* **Kim, Jongwook et al.**, **2004j:81143**
Lee, Chi-Wei Herbert Multicritical matrix-vector models of quantum orbifold geometry. (English summary) **2004k:81296**
Lee, Chong Oh *see* **Kim, Chanju et al.**, **2004f:81182** *and* **2004k:81290**
Lee, Jen-Chi *see* **Kao, Hsien-Chung**, **2004e:81140**
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Lee, Peter Byungho (*with* Park, Jongwon) Open strings in a pp-wave background from defect conformal field theory. (English summary) **2004b:81177**
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Leigh, Robert G. String model building at low string scale. (English summary) (*see* **2004d:81001**)
— (*with* Petkou, Anastasios C.) Holography of the $\mathcal{N} = 1$ higher-spin theory on AdS_4. (English summary) **2004f:81186**
Lelli, Simone (*with* Maggiore, Michele; Rissone, Anna) Perturbative and non-perturbative aspects of the two-dimensional string/Yang-Mills correspondence. (English summary) **2004e:81146**
— *see also* **Dubath, Florian et al.**
Leonhardt, Thorsten *see* **Ketov, Sergei V. et al.**, **2004j:81141**
Lerche, W. On the heterotic/F-theory duality in eight dimensions. (English summary) **2004g:81217**
Lerda, Alberto *see* **Billó, Marco et al.**, **2004e:81112**; **Frau, Marialuisa et al.**, **2004g:81197** *and* **Imeroni, Emiliano**, **2004k:81285**
Li, Tian-Jun[1] (*with* Liu, Tao) Quasi-supersymmetric G^3 unification from intersecting D6-branes on type IIA orientifolds. (English summary) **2004k:81297**
Liccardo, Antonella *see* **Billó, Marco et al.**, **2004e:81112** *and* **Di Vecchia, Paolo et al.**, **2004j:81130**
Lin, Feng-Li *see* **Chen, Bin[5] et al.**, **2004k:81259** *and* **2004m:81183**
Lindström, Ulf (*with* Roček, Martin; van Nieuwenhuizen, Peter) Consistent boundary conditions for open strings. (English summary) **2004e:81147**
— (*with* Zabzine, Maxim) Tensionless strings, WZW models at critical level and massless higher spin fields. (English summary)
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Liu, James T. *see* **Cvetič, Mirjam et al.**, **2004a:81182**; **Buchel, Alex**, **2004m:81180**; **Duff, Michael J.**, **2004m:81186** *and* (**2004m:83003**)
Liu, Tao *see* **Li, Tian-Jun[1]**, **2004k:81297**
Loewy, Amit (*with* Oz, Yaron) Large spin strings in AdS_3. (English summary) **2004b:81178**
Lomholt, M. A. (*with* Larsen, A. L.) Open strings in the SL(2, **R**) WZWN model with solution for a rigidly rotating string. (English summary) **2004d:81098**
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Long, Zheng-Wen *see* **Jing, Jian et al.**
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— *see also* **Gurrieri, Sebastien et al.**, **2004m:81193** *and* **Haack, Michael**, (**2004d:81111**)
Love, Alexander *see* **Bailin, David et al.**, **2004g:81179**
Lovis, Kenneth J. *see* **Brecher, Dominic et al.**, **2004k:81253**
Lowe, David A. (*with* Nastase, Horatiu; Ramgoolam, Sanjaye) Massive IIA string theory and matrix theory compactification. (English summary) **2004m:81201**
— *see also* **Brower, Richard C. et al.**, **2004c:81195**
Lozano-Tellechea, Ernesto *see* **Di Vecchia, Paolo et al.**, **2004c:81199**
Lü, Hong[1] *see* **Cvetič, Mirjam et al.**, **2004a:81182**; **2004c:81198**; **2004k:81264** *and* **Cucu, S. et al.**
Lübcke, Martin *see* **Danielsson, Ulf H. et al.**, **2004j:81129**
Lugo, Adrián R. *see* **Grandi, Nicolas Esteban**, **2004c:81208**
Lukas, André Moving five-branes and cosmology. (English summary) (*see* **2004d:81001**)
— (*with* Morris, Stephen) Rolling G_2 moduli. (English summary) **2004m:81202**
Lukierski, Jerzy (*with* Toppan, Francesco) Octonionic M-theory and $D = 11$ generalized conformal and superconformal algebras. (English summary) **2004i:81202**
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Lunin, Oleg (*with* Mathur, Samir D.) Correlation functions for orbifolds of the type M^N/S^N. (English summary) **2004g:81218**
Lüst, Dieter *see* **Behrndt, Klaus et al.**, **2004c:81187**; **Faux, Michael et al.**, **2004g:81195**; **2004h:81188**; **2004j:81133** *and* **Cardoso, Gabriel Lopes et al.**, **2004k:81257**
Maccaferri, Carlo (*with* Mamone, Davide) Star democracy in open string field theory. (English summary) **2004k:81298**
Machado, Fabiano R. *see* **Brandt, Fernando T. et al.**
Maeda, Kengo *see* **Hertog, Thomas et al.**, **2004e:81137**
Maggiore, Michele *see* **Lelli, Simone et al.**, **2004e:81146**
Mahapatra, Swapna *see* **Behrndt, Klaus et al.**, **2004c:81187**
Majumdar, Pushan The string spectrum from large Wilson loops. (English summary) **2004f:81187**
Makeenko, Yu. M. *see* **Ambjørn, Jan et al.**, **2004e:81108**
Maktabdaran, G. R. *see* **Garousi, Mohammad R.**, **2004h:81192**
Maldacena, Juan Large N field theories, string theory and gravity. (English summary) **2004g:81219a**
— Large N field theories, string theory and gravity. (English summary) **2004g:81219b**
— Les Houches lectures on large N field theories and gravity. (English summary) **2004h:81199**
— Strings in flat space and plane waves from $\mathcal{N} = 4$ super Yang Mills. **2004k:81299**
— (*with* Sheikh-Jabbari, Mohammad M.; Van Raamsdonk, Mark) Tranverse fivebranes in Matrix theory. (English summary) **2004e:81148**
— *see also* **Klebanov, Igor R. et al.**, **2004j:81146**
Maloney, Alexander (*with* Strominger, Andrew; Yin, Xi) S-brane thermodynamics. (English summary) **2004m:81204**
Malyuta, Yu. M. (*with* Obikhod, T. V.) Clifford algebras and D-branes. (Russian. English summary) **2004b:81179**
— (*with* Obikhod, T. V.) BPS-states in F-theory. (Russian. English and Ukrainian summaries)
Mamone, Davide *see* **Bonora, Loriano et al.**, **2004b:81146**; **2004h:81179** *and* **Maccaferri, Carlo**, **2004k:81298**
Mañes, Juan L. String form factors. (English summary)
Manousselis, P. *see* **Cardoso, Gabriel Lopes et al.**, **2004k:81257**
Mansfield, Paul (*with* Nolland, David; Ueno, Tatsuya) Order $1/N^2$ test of the Maldacena conjecture. II. The full bulk one-loop contribution to the boundary Weyl anomaly. (English summary) **2004f:81188**
Manvelyan, Ruben R-currents and trace anomalies in the $(2, 0)$ tensor multiplet in $d = 6$ and AdS/CFT correspondence. (English summary) **2004g:81220**
Marchesano, Fernando *see* **Cremades, Daniel et al.**, **2004a:81181** *and* **2004i:81189**
Marcus, Alon *see* **Fuchs, Ehud et al.**, **2004k:81271**
Marino, E. C. Creation operators for two-branes and duality in BF and Chern-Simons theories in $D = 5$. (English summary)
Mariño, Marcos (*with* Schiappa, Ricardo) Towards vacuum superstring field theory: the supersliver. (English summary) **2004g:81221**
Marolf, Donald (*with* Martucci, Luca; Silva, Pedro J.) Fermions, T-duality and effective actions for D-branes in bosonic backgrounds. (English summary) **2004f:81189**
— (*with* Martucci, Luca; Silva, Pedro J.) Actions and fermionic symmetries for D-branes in bosonic backgrounds. (English summary) **2004g:81222**
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Maroto, Antonio L. Casimir effect between moving branes. (English summary) **2004a:81201**
Marotta, Raffaele *see* **Di Vecchia, Paolo et al.**, **2004j:81130**
Martelli, Dario Field theory duals from (non)-critical type 0 strings. (English summary) (*see* **2004d:81111**)
Martellini, Maurizio *see* **Kamenshchik, A. Yu. et al.**, **2004b:81171**
Martin, Isbelia *see* **De Castro, A. et al.**
Martineau, Patrick[1] *see* **Burgess, Clifford P. et al.**, **2004c:81196** *and* **2004f:81173**
Martinec, Emil J. (*with* McElgin, Will) Exciting AdS orbifolds. (English summary) **2004k:81300**
Martucci, Luca (*with* Silva, Pedro J.) On type II superstrings in bosonic backgrounds: the role of fermions and T-duality. (English summary) **2004k:81301**
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— (*with* Silva, Pedro J.) YM on the dielectric brane: a D0-brane tale. (English summary) **2004g:81223**
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Masip, Manuel *see* **Abel, Steven Adam et al.**, **2004e:81107**
Mateos, David (*with* Mateos, Toni; Townsend, Paul Kingsley) Supersymmetry of tensionless rotating strings in $AdS_5 \times S^5$, and nearly-BPS operators. (English summary) **2004m:81205**
Mateos, Toni *see* **Mateos, David et al.**, **2004m:81205**
Mathur, Samir D. *see* **Lunin, Oleg**, **2004g:81218**
Matlock, Peter Butterfly tachyons in vacuum string field theory. (English summary) **2004e:81149**
Matsuo, Yutaka *see* **Bars, Itzhak et al.**, **2004h:81168** *and* **2004h:81169**
Matsuura, So *see* **Asakawa, Tsuguhiko et al.**, **2004j:81121**
Maznytsia, Alexey (*with* Preitschopf, Christian R.; Sorokin, D. P.) Duality and selfduality of chiral boson fields in various dimensions. (*see* **2004d:81111**)
Mazumdar, Anupam *see* **Frey, Andrew R.**, **2004c:81203**
McElgin, Will *see* **Martinec, Emil J.**, **2004k:81300**
McGreevy, John Adding flavor to Dijkgraaf-Vafa. (English summary) **2004e:81150**
— *see also* **Fabinger, Michal**, **2004g:81193**
de Medeiros, P. F. (*with* Prem Kumar, S.) Spacetime Virasoro algebra from strings on zero radius AdS_3. (English summary) **2004k:81302**
Medina, Ricardo *see* **Chandía, Osvaldo**, **2004k:81258** *and* **Brandt, Fernando T. et al.**
Medvedev, P. B. *see* **Aref′eva, Irina Ya. et al.**, **2004g:81177**
Mehen, Thomas (*with* Wecht, Brian) Gauge fields and scalars in rolling tachyon backgrounds. (English summary) **2004c:81223**
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Michelson, Jeremy (Twisted) toroidal compactification of pp waves. (English summary) **2004a:81202**
Micu, Andrei *see* **Gurrieri, Sebastien et al.**, **2004c:81211** *and* **2004m:81193**

Mikhailov, Andrei Speeding strings. (English summary) **2004m:81206**
Minahan, Joseph A. Circular semiclassical string solutions on $AdS_5 \times S_5$. (English summary) **2004j:81148**
Minasian, Ruben *see* **Kaste, Peter et al., 2004g:81211**; **2004m:81197** *and* **Antoniadis, Ignatios et al., 2004k:81243**
Minic, Djordje Towards covariant matrix theory. (English summary) **2004g:81224**
— *see also* **Balasubramanian, Vijay et al., 2004e:81109**
Minwalla, Shiraz *see* **Constable, Neil R. et al., 2004a:81180** *and* **David, Justin R. et al., 2004a:81184**
Mironov, A. D. *see* **Chekhov, L. O., 2004e:81116**
Mitra, Indrajit[2] *see* **Gubser, Steven S., 2004g:81201**
Mizoguchi, Shun'ya (*with* Mogami, Takeshi; Satoh, Yuji) A note on T-duality of strings in plane-wave backgrounds. (English summary) **2004i:81203**
Mkrtchyan, H. (*with* Mkrtchyan, Ruben) Little groups of preon branes. (English summary) **2004k:81304**
Mkrtchyan, Ruben *see* **Mkrtchyan, H., 2004k:81304**
Modesto, Leonardo *see* **Fré, Pietro, 2004b:81161**
Moeller, Nicolas Some exact results on the matter star-product in the half-string formalism. (English summary) **2004a:81203**
— (*with* Schnabl, Martin) Tachyon condensation in open-closed p-adic string theory. (English summary) **2004m:81207**
Mogami, Takeshi *see* **Mizoguchi, Shun'ya et al., 2004i:81203**
Mohaupt, Thomas *see* **Louis, Jan et al., 2004d:81099**
Mohri, Kenji Exceptional string: instanton expansions and Seiberg-Witten curve. (English summary) **2004c:81224**
Moore, Gregory W. (*with* Saulina, N. A.) T-duality, and the K-theoretic partition function of type IIA superstring theory. (English summary) **2004k:81305**
Morales, José F. (*with* Samtleben, Henning) AdS duals of matrix strings. (English summary) **2004g:81225**
Moreno, Enrique F. *see* **Correa, D. H. et al., 2004d:81086**
Moriyama, Sanefumi *see* **Lee, Peter Byungho et al., 2004f:81185**; **Hata, Hiroyuki, 2004h:81196** *and* **Gomis, Jaume et al., 2004i:81193**
Morris, Stephen *see* **Lukas, André, 2004m:81202**
Motl, Luboš (*with* Neitzke, Andrew; Sheikh-Jabbari, Mohammad M.) Heterotic plane wave Matrix models and giant gluons. (English summary) **2004f:81190**
— *see also* **Arkani-Hamed, Nima et al., 2004b:81139**
Mourad, J. *see* **Dudas, Emilian et al., 2004e:81121**; (**2004d:81001**); (**2004m:83003**) *and* **Brax, Philippe et al.**
Mukherji, Sudipta *see* **Bhattacharya, Somdatta et al.**
Mukhopadhyay, Partha (*with* Sen, Ashoke) Decay of unstable D-branes with electric field. (English summary) **2004b:81181**
Müller-Kirsten, Harald J. W. *see* **Park, DaeKil et al.**
Murakami, Koichi (*with* Nakatsu, Toshio) Open Wilson lines as states of closed string. (English summary) **2004m:81208**
Myers, Robert C. Nonabelian D-branes and noncommutative geometry. (English summary) **2004b:81182**
— (*with* Winters, David J.) From D-$\overline{\text{D}}$ pairs to branes in motion. (English summary) **2004c:81225**
— Non-abelian phenomena on D-branes. (English summary) **2004k:81306**
— *see also* **Brecher, Dominic et al., 2004k:81253**
Naculich, Stephen G. (*with* Schnitzer, Howard J.; Wyllard, Niclas) A cascading $\mathcal{N} = 1$ $\mathrm{Sp}(2N + 2M) \times \mathrm{Sp}(2N)$ gauge theory. (English summary) **2004d:81101**
— *see also* **Ksir, Amy E., 2004i:81200**
Nagami, Kenji Closed string emission from unstable D-brane with background electric field. (English summary) **2004m:81209**
Nagaoka, Satoshi Fluctuation analysis of the non-abelian Born-Infeld action in background intersecting D-branes. (English summary) **2004k:81307**
— Higher dimensional recombination of intersecting D-branes. (English summary) **2004m:81210**
— *see also* **Hashimoto, Koji et al., 2004h:81195** *and* **2004j:81138**
Naik, Satchidananda The sigma model formulation of type II string theory in the $AdS_5 \times S_5$ backgrounds with Ramond-Ramond flux. (English summary) **2004d:81102**
Nakano, Hiroaki *see* **Kobayashi, Tatsuo et al., 2004b:81173**
Nakatsu, Toshio *see* **Murakami, Koichi, 2004m:81208**
Nakayama, Yu Tadpole cancellation in unoriented Liouville theory. (English summary) **2004k:81308**
Nakazawa, Naohito *see* **Ennyu, Daiji et al., 2004c:81201**
Naqvi, Asad *see* **Larsen, Finn et al., 2004f:81184**
Narain, Kumar S. *see* **Gava, Edi, 2004k:81273**
Nastase, Horatiu *see* **Lowe, David A. et al., 2004m:81201**
Nath, Pran *see* **Körs, Boris, 2004k:81293**
Nayak, Rashmi R. (*with* Panigrahi, Kamal L.) More D-branes in plane wave spacetime. (English summary) **2004m:81211**
Nedel, D. L. Consistency of superspace low energy equations of motion of 4D type II superstring with type II sigma model at tree-level. (English summary)
Neitzke, Andrew *see* **Iqbal, Amer et al., 2004e:81138** *and* **Motl, Luboš et al., 2004f:81190**
Neuberger, Herbert Topological effects in matrix models representing lattice gauge theories at large N. (English summary) **2004m:81212**
Niarchos, Vasilis *see* **Kutasov, David, 2004g:81215**
Nichols, Alexander Strings and particles with extrinsic curvature. (English summary)
Niemi, Antti J. Phases of bosonic strings and two dimensional gauge theories. (English summary) **2004g:81226**
van Nieuwenhuizen, Peter *see* **Lindström, Ulf et al., 2004e:81147** *and* **Grassi, Pietro A. et al., 2004k:81275**
Nilles, Hans Peter *see* **Ghilencea, D. M. et al., 2004d:81093** *and* **Groot Nibbelink, Stefan et al., 2004f:81178**
Nishimura, Jun[1] (*with* Okubo, Toshiyuki; Sugino, Fumihiko) Testing the Gaussian expansion method in exactly solvable Matrix models. (English summary)
Nissimov, Emil *see* **Guendelman, Eduardo I. et al., (2004d:83002)**
Nitta, Muneto *see* **Clark, Thomas E. et al.**
Noguchi, Tatsuya *see* **Kobayashi, Tatsuo et al., 2004b:81173**
Nolland, David *see* **Mansfield, Paul et al., 2004f:81188**
Núñez, Carlos Dualities between gauge and supergravity/string theories. (English summary) (*see* **2004m:83003**)
— *see also* **David, Justin R. et al., 2004a:81184**; **Gürsoy, Umut et al., 2004f:81179** *and* **Hartnoll, Sean A., 2004g:81204**
Obers, Niels A. (*with* Pioline, Boris) Duality, Eisenstein series and exact thresholds. (English summary) **2004m:81213**
— *see also* **Harmark, Troels, 2004g:81203**
Obikhod, T. V. *see* **Malyuta, Yu. M., 2004b:81179**
Oda, Kin-ya Alternative signature of TeV strings. (English summary)
Oh, Kyungho *see* **Dasgupta, Keshav et al., 2004a:81183**
Oh, Phillial *see* **Cho, Jin-Ho, 2004b:81151**
Ohmori, Kazuki Comments on solutions of vacuum superstring field theory. (English summary) **2004d:81103**
— On ghost structure of vacuum superstring field theory. (English summary) **2004i:81204**
Ohta, Nobuyoshi Introduction to branes and M-theory for relativists and cosmologists. (English summary) **2004k:81309**
— Intersection rules for S-branes. (English summary) **2004b:81183**
— *see also* **Miao, Yan-Gang, 2004d:81100**
Okubo, Toshiyuki *see* **Nishimura, Jun[1] et al.**
Okuyama, Kazumi Siegel gauge in vacuum string field theory. (English summary) **2004a:81204**
— D-branes on the null-brane. (English summary) **2004c:81226**
— Wess-Zumino term in tachyon effective action. (English summary) **2004d:81104**
— Comments on half S-branes. (English summary) **2004i:81205**
Olechowski, Marek *see* **Groot Nibbelink, Stefan et al., 2004f:81178**
Ooguri, Hirosi (*with* Vafa, Cumrun) Worldsheet derivation of a large N duality. (English summary) **2004b:81184**
— *see also* **DeWolfe, Oliver et al., 2004a:81185**
Ookouchi, Yutaka *see* **Fuji, Hiroyuki, 2004b:81162**
Orselli, Marta *see* **Grignani, Gianluca et al., 2004e:81133**
Ott, Tassilo *see* **Blumenhagen, Ralph et al., 2004d:81082**
Ouyang, Hua Jiang *see* **Klebanov, Igor R. et al., 2004k:81291**
Ovrut, Burt A. *see* **Bukhbinder, E. I. et al., 2004a:81176**; **2004a:81177**; **Faux, Michael et al., 2004g:81195**; **2004h:81188** *and* **2004j:81133**
Owen, A. W. *see* **Abel, Steven Adam, 2004b:81135** *and* **2004k:81237**
Oz, Yaron Aspects of tachyon condensation in string theory. (English summary) **2004d:81106**
— *see also* **Loewy, Amit, 2004b:81178**; **Glück, Dan et al., 2004g:81200**; **2004i:81192** *and* **Cheung, Yeuk-Kwan E. et al., 2004k:81260**
Pacheva, Svetlana *see* **Guendelman, Eduardo I. et al., (2004d:83002)**
Page, David C. *see* **Brecher, Dominic et al., 2004k:81254**
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Pando Zayas, Leopoldo A. (*with* Vaman, Diana) Strings in the Ramond-Ramond plane wave background at finite temperature. (English summary) **2004g:81227**
— (*with* Vaman, Diana) Hadronic density of states from string theory. (English summary) **2004g:81228**
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Panigrahi, Kamal L. (*with* Sanjay) D-branes in pp-wave spacetime with nonconstant NS-NS flux. (English summary) **2004d:81107**
— *see also* **Nayak, Rashmi R., 2004m:81211**
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— (*with* Stefański, B., Jr.) pp-wave light-cone superstring field theory. (English summary) **2004c:81228**
Papadimitriou, Ioannis N. *see* **Cvetič, Mirjam et al., 2004f:81175** *and* **2004h:81184**
Papadopoulos, George (*with* Russo, Jorge G.; Tseytlin, Arkady A.) Solvable model of strings in a time-dependent plane-wave background. (English summary) **2004j:81149**
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Park, Inyong Y. Absorption of a quantum in a D1/D5 system. (English summary)
Park, Jaemo *see* **Hyun, Seungjoon et al., 2004b:81165** *and* **Kim, Yeonjung, 2004i:81198**
Park, Jong-Dae *see* **Hyun, Seungjoon et al.**
Park, Jongwon *see* **Lee, Peter Byungho et al., 2004b:81177**; **2004f:81185** *and* **Gomis, Jaume et al., 2004i:81193**
Parvizi, Shahrokh *see* **Alishahiha, Mohsen et al., 2004f:81167**
Paulot, Louis *see* **Henry-Labordère, Pierre et al., 2004k:81281**
Pawełczyk, Jacek (*with* Steinacker, Harold) Algebraic brane dynamics on SU(2): excitation spectra. (English summary) **2004m:81214**
Pearson, John M. (*with* Spradlin, Marcus; Vaman, Diana; Verlinde, Herman; Volovich, Anastasia) Tracing the string: BMN correspondence at finite J^2/N. (English summary) **2004e:81152**
Peeters, K. *see* **Bain, Pascal et al., 2004g:81180**
Persson, Jonas *see* **Bredthauer, Andreas et al., 2004c:81194** *and* **2004k:81255**
Pesando, Igor *see* **Billó, Marco et al., 2004e:81112**
Petkou, Anastasios C. Evaluating the AdS dual of the critical $\mathrm{O}(N)$ vector model. (English summary) **2004e:81153**
— *see also* **Leigh, Robert G., 2004f:81186**
Petrini, Michela *see* **Chu, Chong-Sun et al., 2004g:81187** *and* **Kaste, Peter et al., 2004g:81211**
Petropoulos, P. Marios *see* **Kiritsis, Elias et al., 2004a:81197** *and* **Israël, Dan et al., 2004k:81286**
Pezzella, Franco *see* **Di Vecchia, Paolo et al., 2004j:81130**
Phong, D. H. *see* **D'Hoker, Eric, 2004b:81154**; **2004b:81155**; **2004b:81156** *and* **2004b:81157**

(Picco, Marco) *see* **Progress in string theory and M-theory, 2004d:81111**
Pinzul, A. *see* **Karatheodoris, G. et al., 2004e:81141**
Pioline, Boris *see* **Durin, Bruno, 2004f:81176** *and* **Obers, Niels A., 2004m:81213**
Plefka, Jan Christoph Vertex operators for the supermembrane and background field matrix theory. (English summary) **2004g:81229**
— Lectures on the plane-wave string/gauge theory duality. (English summary)
Polchinski, Joseph Monopoles, duality, and string theory. (English summary) (*see* **2004k:81004**)
— M theory and black hole quantum mechanics.
— (*with* Strassler, Matthew J.) Deep inelastic scattering and gauge/string duality. (English summary) **2004i:81206**
— Monopoles, duality, and string theory. (English summary)
Policastro, Giuseppe *see* **Grassi, Pietro A. et al., 2004k:81275**
Polyakov, Dimitri *see* **Kogan, Ian I., 2004e:81143**
Pomerance, Laura *see* **Conley, John Anthony et al., 2004b:81153**
Pope, C. N. *see* **Cvetič, Mirjam et al., 2004a:81182**; **2004c:81198** *and* **2004k:81264**
Popov, A. D. *see* **Kling, Alexander et al., 2004g:81214**
Porrati, Massimo *see* **Girardello, L. et al., 2004e:81130**
Pradisi, Gianfranco Magnetized (shift-)orientifolds. (English summary) (*see* **2004d:81001**)
— *see also* **Larosa, M., 2004g:81216**
Preitschopf, Christian R. *see* **Maznytsia, Alexey et al.,** (**2004d:81111**)
Prem Kumar, S. *see* **de Medeiros, P. F., 2004k:81302**
Prokushkin, S. F. *see* **Becker, Katrin et al., 2004i:81184**
Quella, Thomas On the hierarchy of symmetry breaking D-branes in group manifolds. (English summary) **2004c:81229**
Quevedo, Fernando *see* **Burgess, Clifford P. et al., 2004c:81196**; **2004f:81173** *and* **2004m:81181**
Rabadán, Raúl (*with* Simón, Joan) M-theory lift of brane-antibrane systems and localised closed string tachyons. (English summary) **2004e:81154**
— (*with* Zamora, Frederic) Dilaton tadpoles and D-brane interactions in compact spaces. (English summary) **2004a:81205**
— *see also* **Burgess, Clifford P. et al., 2004f:81173** *and* **2004m:81181**
Rabinovici, Eliezer Aspects of string motion in time-dependent backgrounds. (English summary)
— *see also* **Elitzur, Shmuel et al., 2004d:81091** *and* **Giveon, Amit et al., 2004h:81193**
Raeymaekers, Joris *see* **Dabholkar, Atish, 2004k:81265**
Ramgoolam, Sanjaye *see* **Corley, Steven, 2004m:81185** *and* **Lowe, David A. et al., 2004m:81201**
Ramond, Pierre Adventures in eleven dimensions. (English summary)
Ramon Medrano, M. (*with* Sanchez, Norma G.) New dual relations between quantum field theory and string regimes in curved backgrounds. (English summary) **2004i:81207**
Rampino, Carlo *see* **Beccaria, Matteo, 2004j:81124**
Rashkov, R. C. *see* **Dimov, H. et al., 2004k:81267**
Rasmussen, Jørgen *see* **Belhaj, Adil et al., 2004j:81126**
Rastelli, Leonardo (*with* Sen, Ashoke; Zwiebach, Barton) Vacuum string field theory. (English summary) **2004h:81202**
— Open string fields and D-branes. (English summary)
— *see also* **Gaiotto, Davide et al., 2004h:81191**
Redi, Michele *see* **Delgado, Antonio, 2004d:81089**
Resco, Pedro *see* **Gómez, César, 2004e:81131**
Restuccia, A. *see* **De Castro, A. et al.**
Reuillon, Sébastien *see* **Correa, D. H. et al., 2004d:81086**
Rey, Soo-Jong (*with* Sugimoto, Shigeki) Rolling tachyon with electric and magnetic fields: T-duality approach. (English summary) **2004f:81192**
Ribault, Sylvain D3-branes and NS5-brane backgrounds. (English summary) **2004c:81230**
Rissone, Anna *see* **Lelli, Simone et al., 2004e:81146** *and* **Dubath, Florian et al.**
Rizos, J. *see* **Kiritsis, Elias et al., 2004a:81197**
Roček, Martin *see* **Lindström, Ulf et al., 2004e:81147**
Rodrigues, João P. *see* **de Mello Koch, Robert et al., 2004k:81303**
Roiban, Radu (*with* Römelsberger, Christian; Walcher, Johannes) Discrete torsion in singular G_2-manifolds and real LG. (English summary) **2004c:81231**
— (*with* Spradlin, Marcus; Volovich, Anastasia) On light-cone SFT contact terms in a plane wave. (English summary) **2004k:81310**
— *see also* **Kulik, Bogdan, 2004a:81200**
Römelsberger, Christian *see* **Roiban, Radu et al., 2004c:81231**
de Roo, Mees (*with* Eenink, Martijn G. C.) The effective action for the 4-point functions in abelian open superstring theory. (English summary) **2004h:81203**
— *see also* **Collinucci, Andres et al., 2004b:81152**
Roose, Frederik *see* **Billó, Marco et al.,** (**2004d:81111**)
Roy, Shibaji Accelerating cosmologies from M/string theory compactifications. (English summary)
— Dimensional reductions of M-theory S-branes to string theory S-branes. (English summary)
— *see also* **Bhattacharya, Somdatta et al., 2004h:81175**
Rozali, Moshe *see* **Brecher, Dominic et al., 2004k:81254** *and* **DeBoer, Philip A.**
Rühl, Werner *see* **Ketov, Sergei V. et al., 2004j:81141**
Russo, Jorge G. *see* **Iengo, Roberto, 2004c:81214**; **Papadopoulos, George et al., 2004j:81149**; **Arutyunov, Gleb E. et al., 2004k:81245** *and* **Chialva, Diego et al., 2004m:81184**
Russo, Rodolfo *see* **Chu, Chong-Sun et al., 2004g:81187**
Ryang, Shijong Rotating and orbiting strings in the near-horizon brane backgrounds. (English summary) **2004e:81155**
— Penrose limits of branes and marginal intersecting branes. (English summary) **2004b:81185**
Rychkov, Vyacheslav S. Wilson loops, D-branes, and reparametrization path integrals. (English summary) **2004a:81206**
Sachs, Ivo *see* **Lambert, Neil D., 2004c:81221**
Saffin, P. M. *see* **Brecher, Dominic, 2004h:81181** *and* **Copeland, Edmund J. et al., 2004k:81262**
Sagnotti, Augusto Open-string models with broken supersymmetry. (English summary) (*see* **2004e:82003**)
— Open-string models with broken supersymmetry. (English summary) **2004h:81204**
— (*with* Tsulaia, Mirian) On higher spins and the tensionless limit of string theory. (English summary) **2004k:81311**
— *see also* **Angelantonj, Carlo, 2004g:81175**
Sahraoui, El Mostapha (*with* Saidi, El Hassan) Metrics building of pp-wave orbifold geometries. (English summary) **2004c:81232**
Saidi, El Hassan *see* **Sahraoui, El Mostapha, 2004c:81232**
Sakaguchi, Makoto (*with* Yoshida, Kentaroh) M-theory on a time-dependent plane-wave. (English summary) **2004k:81312**
— (*with* Yoshida, Kentaroh) D-branes of covariant AdS superstrings. (English summary) **2004m:81215**
— *see also* **Hatsuda, Machiko, 2004e:81136** *and* **Kamimura, Kiyoshi, 2004g:81210**
Sakai, Norisuke *see* **Hashimoto, Koji, 2004a:81192**
Sakai, Tadakatsu *see* **Glück, Dan et al., 2004g:81200** *and* **2004i:81192**
Salizzoni, Mario *see* **Bonora, Loriano et al., 2004b:81146** *and* **2004h:81179**
Samtleben, Henning *see* **Berg, Marcus et al., 2004c:81190** *and* **Morales, José F., 2004g:81225**
Sanchez, Norma G. Advances in string theory in curved backgrounds: a synthesis report. (English summary)
— Classical and quantum strings in plane waves, shock waves and space-time singularities: synthesis and new results. (English summary) **2004k:81313**
— *see also* **Ramon Medrano, M., 2004i:81207**
Sanjay *see* **Panigrahi, Kamal L., 2004d:81107**
Santiago, José *see* **Abel, Steven Adam et al., 2004e:81107**
Sarangi, Saswat (*with* Tye, S.-H. Henry) Inter-brane potential and the decay of a non-BPS-D-brane to closed strings. (English summary)
Sarkar, Tapobrata Brane probes, toric geometry, and closed string tachyons. (English summary) **2004h:81205**
Sarkissian, Gor On DBI action of the non-maximally symmetric D-branes on SU(2). (English summary) **2004b:81186**
— On D-branes in the Nappi-Witten and GMM gauged WZW models. (English summary) **2004b:81187**
Sathiapalan, B. Loop variables in string theory. (English summary) **2004c:81233**
Sato, Masatoshi Non-abelian statistics of axion strings. (English summary)
Sato, Matsuo (*with* Tsuchiya, Asato) Born-Infeld action from supergravity. (English summary) **2004h:81206**
Sato, Takeshi[1] D-brane dynamics and creations of open and closed strings after recombination. (English summary) **2004k:81314**
Satoh, Yuji (*with* Troost, Jan) On time-dependent AdS/CFT. (English summary) **2004h:81207**
— *see also* **Mizoguchi, Shun'ya et al., 2004i:81203**
Saulina, N. A. *see* **Moore, Gregory W., 2004k:81305**
Savvidy, G. K. Superstring with extrinsic curvature action. (English summary) **2004c:81234**
— *see also* **Fazio, A. R.**
Savvidy, Konstantin G. The discrete bound state spectrum of the rotating D0-brane system, and its decay by emission of Ramond-Ramond field radiation. (English summary) **2004c:81235**
Schäfer-Nameki, Sakura *see* **Gaberdiel, Matthias R. et al., 2004g:81199** *and* **2004k:81272**
Schalm, Koenraad *see* **Greene, Brian R. et al., 2004c:81209**
Schaposnik, Fidel A. *see* **Correa, D. H. et al., 2004d:81086**
Scheidegger, Emanuel On D0-branes in Gepner models. (English summary) **2004e:81156**
Schiappa, Ricardo *see* **Mariño, Marcos, 2004g:81221**
Schnabl, Martin Wedge states in string field theory. (English summary) **2004c:81236**
— *see also* **Berkovits, Nathan, 2004i:81185** *and* **Moeller, Nicolas, 2004m:81207**
Schnitzer, Howard J. *see* **Naculich, Stephen G. et al., 2004d:81101**
Schomerus, Volker Lectures on branes in curved backgrounds. (English summary) **2004e:81157**
Schröder, Germar Discrete U-duality groups. (English summary) (*see* **2004d:81111**)
Schulz, Michael Brian *see* **Kachru, Shamit et al., 2004k:81287**
Schvellinger, Martin Spinning and rotating strings for $\mathcal{N} = 1$ SYM theory and brane constructions. (English summary) **2004k:81315**
— *see also* **Gürsoy, Umut et al., 2004f:81179**
Schwarz, John H. Non-BPS D-brane systems. (English summary) **2004g:81230**
— Recent progress in superstring theory. (English summary) **2004g:81231**
— *see also* **He, Yang Hui et al., 2004d:81096**
Schwindt, Jan-Markus (*with* Wetterich, Christof) Holographic branes. (English summary)
Seiberg, Nathan *see* **Berkovits, Nathan, 2004j:81128** *and* **Klebanov, Igor R. et al., 2004j:81146**
Sekino, Yasuhiro *see* **Fuji, Hiroyuki et al., 2004a:81189** *and* **Asano, Masako et al., 2004k:81247**
Semenoff, Gordon W. DLCQ strings and branched covers of torii. (English summary) **2004f:81193**
— *see also* **Ambjørn, Jan et al., 2004e:81108**; **Grignani, Gianluca et al., 2004e:81133** *and* **Laidlaw, Mark, 2004k:81295**
Sen, Ashoke Non-BPS states and branes in string theory. (English summary) **2004g:81232**
— An introduction to duality symmetries in string theory. (English summary) **2004i:81208**
— Tachyons in string theory. (English summary)
— Time and tachyon. (English summary) **2004k:81316**
— Dirac-Born-Infeld action on the tachyon kink and vortex. (English summary) **2004k:81317**
— *see also* **Mukhopadhyay, Partha, 2004b:81181** *and* **Rastelli, Leonardo et al., 2004h:81202**
Sen, Siddhartha[1] *see* **Tuite, Michael P.**
Serone, M. *see* **Borunda, M. et al., 2004h:81180**
Sethi, Savdeep *see* **Keurentjes, Arjan, 2004c:81217**
Sever, Amit *see* **Giveon, Amit et al., 2004h:81193**
Sevrin, Alexander (*with* Wijns, Alexander) Higher order terms in the non-abelian D-brane effective action and magnetic background fields. (English summary) **2004h:81208**
Shao, Jing *see* **Chen, Yi Xin[1], 2004g:81186**
Sharpe, Eric R. String orbifolds and quotient stacks. (English summary) **2004c:81237**
— Discrete torsion, quotient stacks, and string orbifolds. **2004i:81209**

— Discrete torsion and shift orbifolds. (English summary) **2004j:81150**
Shatashvili, S. L. On a field theory of open strings, tachyon condensation and closed strings. (English summary) **2004h:81209**
Sheikh-Jabbari, Mohammad M. *see* **Alishahiha, Mohsen et al., 2004b:81137**; **Bak, Dongsu, 2004b:81141**; **Maldacena, Juan et al., 2004e:81148** *and* **Motl, Luboš et al., 2004f:81190**
Shelton, Jessie *see* **Ellwood, Ian et al., 2004g:81192**
Shifman, M. (*with* Yung, A. V.) Domain walls and flux tubes in $\mathcal{N} = 2$ SQCD: D-brane prototypes. (English summary) **2004h:81210**
— *see also* **Gorskiĭ, A. S., 2004c:81206** *and* **Armoni, Adi, 2004h:81167**
Shigemori, Masaki *see* **Kraus, Per, 2004e:81144**
Shimada, Hidehiko Membrane topology and matrix regularization. (English summary) **2004m:81216**
Shin, Hyeonjoon (*with* Sugiyama, Katsuyuki; Yoshida, Kentaroh) Partition function and open/closed string duality in type IIA string theory on a pp-wave. (English summary) **2004h:81211**
— (*with* Yoshida, Kentaroh) One-loop flatness of membrane fuzzy sphere interaction in plane-wave matrix model. (English summary) **2004k:81318**
— *see also* **Hyun, Seungjoon et al., 2004b:81165** *and* **2004d:81097**
Shinohara, Shun'ichi *see* **Kawai, Hikaru et al., 2004b:81172**
Shiromizu, Tetsuya (*with* Torii, Takashi[1]; Uesugi, Tomoko) D-braneworld cosmology. (English summary)
— (*with* Koyama, Kazuya; Torii, Takashi[1]) Cosmological constant and gravitational theory on a D-brane. (English summary)
Shiu, Gary *see* **Greene, Brian R. et al., 2004c:81209**; **Cvetič, Mirjam et al., 2004d:81087** *and* **2004f:81175**
Shomer, Assaf Penrose limit and discrete light cone quantization of string theory. (English summary) **2004k:81319**
Shrivastava, Sharad *see* **Conley, John Anthony et al., 2004b:81153**
Sigalov, Ilya *see* **Coletti, Erasmo et al., 2004i:81187**
Silva, Pedro J. *see* **Marolf, Donald et al., 2004f:81189**; **2004g:81222**; **Martucci, Luca, 2004g:81223**; **2004h:81200**; **2004k:81301** *and* **Caldarelli, Marco M., 2004k:81256**
Simón, Joan *see* **Rabadán, Raúl, 2004e:81154** *and* **Figueroa-O'Farrill, José, 2004g:81196**
Sin, Sang-Jin Localized tachyon mass and a g-theorem analogue. (English summary) **2004g:81233**
— *see also* **Itoh, Taichi, 2004a:81195** *and* **Lee, Sunggeun, 2004m:81200**
Singleton, Douglas Alexander *see* **Gogberashvili, Merab, 2004m:81191**
Sinha, Aninda *see* **Gaberdiel, Matthias R. et al., 2004k:81272**
Sitenko, Yurii A. (*with* Gorkavenko, Volodymyr M.) Induced vacuum energy-momentum tensor in the background of a $(d-2)$-brane in $(d+1)$-dimensional space-time. (English summary) **2004e:81158**
Skarke, Harald *see* **De La Ossa, Xenia et al., 2004d:81105**
Skenderis, Kostas (*with* Taylor, Marika) An overview of branes in the plane wave background. (English summary) **2004g:81234**
Smedbäck, Mikael On effective actions for the bosonic tachyon. (English summary) **2004k:81320**
Smith, Douglas J. Intersecting brane solutions in string and M-theory. (English summary) **2004g:81235**
Sochichiu, Corneliu *see* **Bellucci, Stefano, 2004h:81172**
Solov'ev, Aleksandr Valer'evich *see* **Melnikov, Dmitry, 2004b:81180**
Solov'ev, L. D. A multimode relativistic string. Classical solutions and quantization. (Russian. Russian summary) **2004j:81151**
Son, Dam Thanh *see* **Herzog, Christopher P., 2004c:81212**
Sonnenschein, Jacob *see* **Armoni, Adi et al., 2004b:81140**; **Gorbatov, Elie et al., 2004d:81094** *and* **Gimon, Eric G. et al., 2004e:81129**
Sorin, A. S. *see* **Bonora, Loriano, 2004b:81147**
Sorokin, D. P. *see* **Panda, Sudhakar, 2004c:81227** *and* **Maznytsia, Alexey et al., (2004d:81111)**
Sparks, James *see* **Gukov, Sergei et al., 2004c:81210**
Spradlin, Marcus (*with* Volovich, Anastasia) Superstring interactions in a pp-wave background. II. (English summary) **2004c:81238**
— *see also* **He, Yang Hui et al., 2004d:81096**; **Pearson, John M. et al., 2004e:81152** *and* **Roiban, Radu et al., 2004k:81310**
Stahn, Christian *see* **Green, Michael B., 2004j:81136**
Starodubtsev, Artem A note on quantization of matrix models. (English summary) **2004k:81321**
Steer, Danièle A. *see* **Copeland, Edmund J. et al., 2004k:81262** *and* **Brax, Philippe et al.**
Stefański, B., Jr. WZ couplings of D-branes and O-planes. (English summary) (*see* **2004d:81111**)
— Open string plane-wave light-cone superstring field theory. (English summary) **2004e:81159**
— *see also* **Pankiewicz, Ari, 2004c:81228**
Steinacker, Harold *see* **Pawełczyk, Jacek, 2004m:81214**
Stelle, Kellogg S. *see* **Kalkkinen, J., 2004g:81209**
Stern, Allen *see* **Karatheodoris, G. et al., 2004e:81141**
Stieberger, Stephan *see* **Ghilencea, D. M. et al., 2004d:81093**
Strassler, Matthew J. *see* **Gimon, Eric G. et al., 2004e:81129** *and* **Polchinski, Joseph, 2004i:81206**
Strigazzi, P. *see* **Frau, Marialuisa et al., 2004g:81197**
Strominger, Andrew *see* **Maloney, Alexander et al., 2004m:81204**
Sugawara, Yuji Wilson line in SU(2) WZW model and spherical D-brane. (English summary) **2004m:81217**
— Thermal partition functions for S-branes. (English summary) **2004m:81218**
— Thermal amplitudes in DLCQ superstrings on pp-waves. (English summary) **2004a:81207**
— *see also* **Eguchi, Tohru et al., 2004e:81122** *and* **2004e:81123**
Sugimoto, Shigeki *see* **Rey, Soo-Jong, 2004f:81192** *and* **Asakawa, Tsuguhiko et al., 2004j:81122**
Sugino, Fumihiko *see* **Nishimura, Jun[1] et al.**
Sugiyama, Katsuyuki *see* **Shin, Hyeonjoon et al., 2004h:81211**
Sułkowski, Piotr On tachyon potential in boundary string field theory and problems with boundary fermions. (English summary)
Suryanarayana, Nemani V. The holographic dual of a SUSY vector model and tensionless open strings. (English summary) **2004f:81194**
Szabo, Richard J. D-branes, tachyons and K-homology. (English summary) **2004c:81239**
— *see also* **Ambjørn, Jan et al., 2004e:81108**
Takagi, K. D-branes, flops, and tachyons. (English summary) **2004g:81236**
Takahashi, Tomohiko (*with* Zeze, Shoji) Closed string amplitudes in open string field theory. (English summary) **2004i:81210**
— Tachyon condensation and universal solutions in string field theory. (English summary) **2004h:81212**
Takayama, Yastoshi *see* **Imai, Takaaki et al., 2004k:81284**
Takayanagi, Tadashi Modular invariance of strings on PP-waves with RR-flux. (English summary) **2004d:81108**
— (*with* Toumbas, Nicolaos) A matrix model dual of type 0B string theory in two dimensions. (English summary) **2004i:81211**
— *see also* **Harmark, Troels, 2004j:81137**
Tamaryan, S. *see* **Park, DaeKil et al.**
Tan, Chung-I *see* **Brower, Richard C. et al., 2004c:81195** *and* **2004h:81182**
Tanzini, Alessandro *see* **Chu, Chong-Sun et al., 2004g:81187**
Taormina, Anne *see* **Chattaraputi, Auttakit et al., 2004e:81115**
Tasinato, Gianmassimo *see* **Burgess, Clifford P. et al., 2004c:81196**
Tatar, Radu *see* **Dasgupta, Keshav et al., 2004a:81183** *and* **Alishahiha, Mohsen et al., 2004b:81137**
Taylor, Marika *see* **Skenderis, Kostas, 2004g:81234**
Taylor, Washington A perturbative analysis of tachyon condensation. (English summary) **2004c:81240**
— *see also* **Ellwood, Ian et al., 2004g:81192** *and* **Coletti, Erasmo et al., 2004i:81187**
Tello, Carlos *see* **Barosi, Luciano, 2004f:81170**
Teraguchi, Shunsuke *see* **Hata, Hiroyuki et al., 2004k:81279**
Terao, Haruhiko *see* **Kobayashi, Tatsuo et al., 2004b:81173**
Terashima, Seiji *see* **Larsen, Finn et al., 2004f:81184** *and* **Asakawa, Tsuguhiko et al., 2004j:81122**
Theisen, Stefan *see* **Gorbatov, Elie et al., 2004d:81094**; **Pankiewicz, Ari, 2004h:81201** *and* **Antoniadis, Ignatios et al., 2004k:81243**
Thomas, Scott *see* **Anisimov, Alexey et al., 2004c:81185**
Tian, Li-Jun *see* **Jing, Jian et al.**
Timirgaziu, C. *see* **Dudas, Emilian et al., 2004e:81121**; (**2004d:81001**) *and* (**2004m:83003**)
Tomasiello, Alessandro *see* **Kaste, Peter et al., 2004g:81211** *and* **2004m:81197**
Tomino, Dan *see* **Imai, Takaaki et al., 2004k:81284**
Tong, David *see* **Gukov, Sergei et al., 2004c:81210** *and* **Hanany, Amihay, 2004k:81278**
Toppan, Francesco *see* **Lukierski, Jerzy, 2004i:81202** *and* **2004m:81203**
Torii, Takashi[1] *see* **Shiromizu, Tetsuya et al.**
Torrielli, Alessandro *see* **Bassetto, Antonio et al., 2004m:81177**
Toumbas, Nicolaos *see* **Takayanagi, Tadashi, 2004i:81211**
Townsend, Paul Kingsley Brane theory solitons. (English summary) **2004g:81237**
— The story of M.
— *see also* **Gomis, Joaquim et al., 2004c:81205** *and* **Mateos, David et al., 2004m:81205**
Trancanelli, Diego *see* **Grignani, Gianluca et al., 2004e:81133**
Trapletti, M. *see* **Borunda, M. et al., 2004h:81180**
Travaglini, Gabriele *see* **Chu, Chong-Sun et al., 2004e:81117**
Tripathy, Prasanta K. (*with* Trivedi, Sandip P.) Compactification with flux on K3 and tori. (English summary) **2004h:81213**
— *see also* **Kachru, Shamit et al., 2004k:81287**
Trivedi, Sandip P. *see* **Tripathy, Prasanta K., 2004h:81213** *and* **Kachru, Shamit et al., 2004k:81287**
Troost, Jan *see* **Satoh, Yuji, 2004h:81207**
Tseytlin, Arkady A. Limit cases of a superstring in the space $AdS_5 \times S^5$. (Russian. Russian summary) **2004h:81214**
— pp-wave string models with interacting light-cone actions. (English summary)
— Semiclassical quantization of superstrings: $AdS_5 \times S^5$ and beyond. (English summary) **2004f:81195**
— On semiclassical approximation and spinning string vertex operators in $AdS_5 \times S^5$. (English summary) **2004f:81196**
— *see also* **Fotopoulos, Angelo, 2004e:81126**; **2004m:81189**; **Frolov, Sergei A., 2004h:81190**; **2004j:81134**; **Papadopoulos, George et al., 2004j:81149** *and* **Arutyunov, Gleb E. et al., 2004k:81245**
Tsuchiya, Asato *see* **Sato, Matsuo, 2004h:81206**
Tsulaia, Mirian *see* **Sagnotti, Augusto, 2004k:81311**
Tuite, Michael P. (*with* Sen, Siddhartha[1]) A string motivated approach to the relativistic point particle. (English summary)
Tye, S.-H. Henry *see* **Jones, Nicholas T. et al., 2004b:81169**; **2004j:81140** *and* **Sarangi, Saswat**
Uehara, Shozo (*with* Yamada, Satoshi) Comments on the global constraints in light-cone string and membrane theories. (English summary) **2004a:81208**
— *see also* **Kitsunezaki, Naofumi, 2004a:81198** *and* **Ishida, Akira, 2004c:81215**
Ueno, Tatsuya *see* **Mansfield, Paul et al., 2004f:81188**
Uesugi, Tomoko *see* **Shiromizu, Tetsuya et al.**
Uhlmann, Sebastian *see* **Kling, Alexander et al., 2004g:81214** *and* **2004i:81199**
Uranga, Angel M. Local models for intersecting brane worlds. (English summary) **2004c:81241**
Uvarov, Dmitriy V. New superembeddings for type-II superstrings. (English summary) **2004d:81109**
Uzan, Jean-Philippe *see* **Carter, Brandon et al., 2004e:81114**
Uzawa, Kunihito (*with* Yoshida, Kentaroh) Effective potential in pp-wave geometry. (English summary) **2004m:81219**
Vachaspati, Tanmay Symmetries within domain walls. (English summary) **2004h:81215**
Vafa, Cumrun *see* **Ooguri, Hirosi, 2004b:81184**; **Cachazo, Freddy et al., 2004d:81084**; **Iqbal, Amer et al., 2004e:81138** *and* **Aganagic, Mina, 2004m:81173**
Valandro, Roberto *see* **Bassetto, Antonio et al., 2004m:81177**

Vaman, Diana *see* **Pearson, John M. et al., 2004e:81152**; **Pando Zayas, Leopoldo A., 2004g:81227** *and* **2004g:81228**
Vancea, I. V. *see* **Abdalla, M. C. B. et al.**
Vanhove, Pierre *see* **Antoniadis, Ignatios et al., 2004k:81243**
Van Proeyen, Antoine *see* **Bergshoeff, Eric, 2004g:81183** *and* **Dvali, Gia et al., 2004m:81187**
Van Raamsdonk, Mark Blending local symmetries with matrix nonlocality in D-brane effective actions. (English summary) **2004k:81322**
— *see also* **Maldacena, Juan et al., 2004e:81148**
Varadarajan, Uday *see* **Evslin, Jarah, 2004c:81202**
Vázquez-Poritz, J. F. *see* **Cucu, S. et al.**
ter Veldhuis, T. *see* **Clark, Thomas E. et al.**
Verlinde, Erik CFT & FRW. **2004c:81242**
Verlinde, Herman *see* **Pearson, John M. et al., 2004e:81152**
Vernizzi, Graziano *see* **Austing, Peter et al., 2004j:81123**
Vilenkin, Alexander *see* **Dvali, Gia, 2004b:81160**
Viswanathan, Kadayam Sankaran *see* **Dimov, H. et al., 2004k:81267**
Volovich, Anastasia *see* **Spradlin, Marcus, 2004c:81238**; **He, Yang Hui et al., 2004d:81096**; **Pearson, John M. et al., 2004e:81152** *and* **Roiban, Radu et al., 2004k:81310**
Walcher, Johannes *see* **Roiban, Radu et al., 2004c:81231**; **Hanany, Amihay, 2004g:81202** *and* **Buchel, Alex**
Waldram, Daniel *see* **Gurrieri, Sebastien et al., 2004m:81193**
Walter, Martin *see* **Groot Nibbelink, Stefan et al., 2004f:81178**
Walton, Mark A. (*with* Zhou, Jian-Ge) pp-wave Green-Schwarz superstring, polygon divergent structure, and conformal field theory. (English summary) **2004k:81323**
Wang, John E. *see* **Hashimoto, Koji et al., 2004j:81138**
Wang, Shiliang *see* **Jing, Jiliang, 2004b:81167**
Wang, Xiao-Hui (*with* Hou, Bo Yu; Yang, Zhan-Ying; Yue, Rui-Hong) Open superstring star as a continuous Moyal product with B field. (English summary) **2004m:81220**
Wang, Xiao-Jun *see* **Hu, Sen, (2004j:00020)**
Warner, Nicholas P. *see* **Gowdigere, Chethan N., 2004k:81274**
Watabiki, Yoshiyuki The bosonic string and superstring models in $26+2$ and $10+2$ dimensional space-time, and the generalized Chern-Simons action. (English summary) **2004f:81197**
Wecht, Brian *see* **Mehen, Thomas, 2004c:81223**
Wetterich, Christof *see* **Schwindt, Jan-Markus**
Wheater, John F. *see* **Austing, Peter et al., 2004j:81123** *and* **2004k:81248**
Wiese, Uwe-Jens *see* **Bietenholz, Wolfgang et al.**
Wijns, Alexander *see* **Sevrin, Alexander, 2004h:81208**
(Windey, Paul) *see* **Progress in string theory and M-theory, 2004d:81111**
Winters, David J. *see* **Myers, Robert C., 2004c:81225**
Witten, Edward Singularities in string theory. (English summary) **2004g:81238**
— The past and future of string theory.
Wohlfarth, Mattias N. R. *see* **Gomis, Joaquim et al., 2004c:81205**
Wu, Jun-Bao *see* **Zheng, Zhu-Jun et al., 2004d:81110**; **2004i:81212** *and* **2004i:81213**
Wu, Yong Shi[1] *see* **Dai, Jian[1]**
Wulff, Linus *see* **Bredthauer, Andreas et al., 2004k:81255**
Wyllard, Niclas *see* **Naculich, Stephen G. et al., 2004d:81101**
Yamada, Daisuke *see* **Clark, Adam et al., 2004k:81261**
Yamada, Satoshi Perturbative expansion in DLCQ of field and string theories. (English summary) **2004e:81160**
— *see also* **Uehara, Shozo, 2004a:81208**
Yamaguchi, Satoshi[2] AdS branes corresponding to superconformal defects. (English summary) **2004f:81198**
— *see also* **Hikida, Yasuaki, 2004c:81213** *and* **Eguchi, Tohru et al., 2004e:81123**
Yang, Hyun Seok *see* **Kim, Jongwook et al., 2004j:81143**
Yang, Zhan-Ying *see* **Wang, Xiao-Hui et al., 2004m:81220**
Yankielowicz, Shimon *see* **Gorbatov, Elie et al., 2004d:81094**
Yee, Ho-Ung (*with* Yi, Piljin) Open/closed duality, unstable D-branes and coarse-grained closed strings. (English summary) **2004m:81221**
Yi, Piljin *see* **Kim, Chanju et al., 2004j:81142**; **Kwon, O-Kab, 2004k:81294** *and* **Yee, Ho-Ung, 2004m:81221**
Yi, Sang-Heon *see* **Lee, Kimyeong, 2004b:81176** *and* **Hyun, Seungjoon et al.**
Yin, Xi *see* **Maloney, Alexander et al., 2004m:81204**
Yin, Zheng[1] *see* **Cheung, Yeuk-Kwan E. et al., 2004k:81260**
Yoneya, Tamiaki *see* **Asano, Masako et al., 2004k:81247**
Yoshida, Kentaroh *see* **Shin, Hyeonjoon et al., 2004h:81211**; **2004k:81318**; **Sakaguchi, Makoto, 2004k:81312**; **2004m:81215** *and* **Uzawa, Kunihito, 2004m:81219**
Yue, Rui-Hong *see* **Wang, Xiao-Hui et al., 2004m:81220**
Yung, A. V. *see* **Shifman, M., 2004h:81210**
Zabzine, Maxim *see* **Lindström, Ulf**
Zaffaroni, Alberto[1] *see* **Girardello, L. et al., 2004e:81130**
Zagermann, Marco Effective actions near singularities: the STU-model. (English summary)
— *see also* **Louis, Jan et al., 2004d:81099**
Zamaklar, M. *see* **Bain, Pascal et al., 2004g:81180**
Zamora, Frederic *see* **Rabadán, Raúl, 2004a:81205**
Zarembo, Konstantin *see* **Danielsson, Ulf H. et al., 2004j:81129**
Zavala C., Ivonne *see* **Burgess, Clifford P. et al., 2004c:81196**
Zeze, Shoji *see* **Takahashi, Tomohiko, 2004i:81210**
Zheltukhin, A. A. *see* **Bengtsson, Ingemar, 2004h:81173**
Zheng, Zhu-Jun (*with* Wu, Jun-Bao; Zhu, Chuan-Jie) Two-loop superstrings in hyperelliptic language. II. The cosmological constant and the non-renormalization theorem. (English summary) **2004i:81212**
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Zhou, Jian-Ge pp-wave string interactions from the string bit model. (English summary) **2004c:81243**
— *see also* **Walton, Mark A., 2004k:81323**
Zhu, Chuan-Jie *see* **Zheng, Zhu-Jun et al., 2004d:81110**; **2004i:81212**; **2004i:81213** *and* **Bao, Wu-Jun, 2004f:81169**
Zoupanos, G. *see* **Cardoso, Gabriel Lopes et al., 2004k:81257**
Zwiebach, Barton *see* **Rastelli, Leonardo et al., 2004h:81202**

Items listed otherwise than by author

Cargèse ★ Progress in string theory and M-theory. **2004d:81111**
Progress in string theory and M-theory ★ Progress in string theory and M-theory. **2004d:81111**

Items with secondary classifications in 81T30

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(Abel, Steven Adam) *see* **Conference: String Phenomenology, 2004d:81001**
Abramo, L. Raul (*with* Brenig, Léon; Gunzig, Edgard; Saa, Alberto) A note on dualities in Einstein's gravity in the presence of a non-minimally coupled scalar field. (English summary) **2004d:83055**
Acharya, Bobby S. (*with* Gukov, Sergei) M theory and singularities of exceptional holonomy manifolds. (English summary) **2004k:53072**
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del Aguila, Francisco (*with* Pérez-Victoria, Manuel; Santiago, José) Bulk fields with general brane kinetic terms. (English summary) **2004c:81317**
Aharony, Ofer (*with* Antebi, Yaron E.; Berkooz, Micha; Fishman, Ram) "Holey sheets"—Pfaffians and subdeterminants as D-brane operators in large-N gauge theories. (English summary) **2004c:81255**
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Aisaka, Yuri (*with* Kazama, Yoichi) A new first class algebra, homological perturbation and extension of pure spinor formalism for superstring. (English summary) **2004d:81137**
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— (*with* Cirafici, Michele) Effective superpotentials via Konishi anomaly. (English summary) **2004f:81204**
— (*with* Cirafici, Michele) Gravitational F-terms of SO/Sp gauge theories and anomalies. (English summary) **2004j:81160**
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Alishahiha, Mohsen (*with* Parvizi, Shahrokh) Branes in time-dependent backgrounds and field theory/gravity duality. (English summary) **2004a:83067**
— (*with* Yavartanoo, Hossein) On the multi trace superpotential and corresponding matrix model. (English summary) **2004m:81235**
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Alonso-Alberca, Natxo (*with* Ortín, Tomás; Bergshoeff, Eric; Gran, Ulf; Linares, Román; Roest, Diederik) Domain walls of $D=8$ gauged supergravities and their $D=11$ origin. (English summary) **2004e:83112**
Álvarez, Enrique (*with* Conde, Jorge; Hernández, Lorenzo) The Dirichlet obstruction in AdS/CFT. (English summary) **2004k:83132**
de Alwis, S. P. *see* **Brustein, Ram et al., 2004j:83121** *and* **2004j:83122**
Ametller, Lluís (*with* Pons, Josep M.; Talavera, Pere) On the consistency of the $\mathcal{N}=1$ SYM spectra from wrapped five-branes. (English summary) **2004i:81226**
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Andrianopoli, Laura (*with* D'Auria, Riccardo; Ferrara, Sergio; Lledó, María A.) 4-D gauged supergravity analysis of type-IIB vacua on $K3 \times T^2/\mathbb{Z}_2$. (English summary) **2004a:83076**
Andrianov, A. A. *see* **Alfaro, Jorge et al., 2004f:81251**
Angelantonj, Carlo (*with* Ferrara, Sergio; Trigiante, Mario) New $D=4$ gauged supergravities from $\mathcal{N}=4$ orientifolds with fluxes. (English summary) **2004m:83099**
— (*with* Ferrara, Sergio; Trigiante, Mario) Unusual gauged supergravities from type IIA and type IIB orientifolds. (English summary) **2004m:83100**
Anguelova, Lilia (*with* Lazaroiu, Calin I.) Domain walls of $N=2$ supergravity in five dimensions from hypermultiplet moduli spaces. (English summary) **2004a:83077**
Antebi, Yaron E. *see* **Aharony, Ofer et al., 2004c:81255**
Antoniadis, Ignatios (*with* Kiritsis, Elias; Rizos, J.; Tomaras, Theodore N.) D-branes and the standard model. (English summary) **2004d:81161**
Antunes, Nuno D. (*with* Copeland, Edmund J.; Hindmarsh, Mark; Lukas, André) Kinky brane worlds. (English summary) **2004k:83133**
Arapoglu, S. (*with* Deger, Nihat Sadik; Kaya, Ali) A note on supergravity solutions for partially localized intersecting branes. (English summary) **2004m:83101**
Arcioni, Giovanni (*with* Blau, Matthias; O'Loughlin, Martin) On the boundary dynamics of Chern-Simons gravity. (English summary) **2004e:83059**
Ardalan, F. (*with* Arfaei, H.; Garousi, Mohammad R.; Ghodsi, Ahmad) Gravity on noncommutative D-branes. (English summary) **2004c:83113**
Arfaei, H. *see* **Ardalan, F. et al., 2004c:83113**
Argurio, Riccardo Comments on cosmological RG flows. (English summary) **2004a:83068**
— (*with* Campos, Vanicson L.; Ferretti, Gabriele; Heise, Rainer) Exact superpotentials for theories with flavors via a matrix integral. (English summary) **2004h:81226**
Argyres, Philip C. (*with* Maimon, Ron; Pelland, Sophie) The M theory lift of two $O6^-$ planes and four D6-branes. (English summary) **2004a:81216**

Armoni, Adi (*with* López, Esperanza; Uranga, Angel M.) Closed strings tachyons and non-commutative instabilities. (English summary) **2004d:81144**
— (*with* Shifman, M.) On k-string tensions and domain walls in $\mathcal{N} = 1$ gluodynamics. (English summary) **2004k:81354**
Arnowitt, R. (*with* Dutta, Bhaskar; Hu, Bo[2]) Quark, lepton and neutrino masses in Horava-Witten inspired models. (English summary) (*see* **2004d:81001**)
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Ashok, Sujay K. (*with* Corrado, Richard A.; Halmagyi, Nick; Kennaway, Kristian D.; Römelsberger, Christian) Unoriented strings, loop equations, and $\mathcal{N} = 1$ superpotentials from matrix models. (English summary) **2004f:81210**
Aspinwall, Paul S. A point's point of view of stringy geometry. (English summary) **2004e:14023**
Atiyah, Michael Francis (*with* Witten, Edward) M-theory dynamics on a manifold of G_2 holonomy. (English summary) **2004f:53046**
Axenides, Minos (*with* Floratos, Emmanuel; Kehagias, Alex) Scaling violations in Yang-Mills theories and strings in AdS_5. (English summary) **2004d:81121**
Babington, James (*with* Crooks, David E.; Evans, Nick) Stable supergravity dual of nonsupersymmetric glue. (English summary) **2004g:83135**
(Bachas, Constantin P.) *see* **Unity from duality: gravity, gauge theory and strings, 2004d:81004**
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Bailin, David (*with* Kraniotis, Georgios V.; Love, Alexander) Standard-like models from intersecting D4-branes. (English summary) **2004e:81225**
Bain, Pascal Fractional D3-branes in diverse backgrounds. (English summary) **2004c:81257**
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Bak, Dongsu (*with* Gutperle, Michael; Hirano, Shinji) A dilatonic deformation of AdS_5 and its field theory dual. (English summary) **2004f:83080**
Bakas, Ioannis (*with* Sonnenschein, Jacob) On integrable models from pp-wave string backgrounds. (English summary) **2004c:83114**
Balachandran, Aiyalam P. (*with* Kürkçüoğlu, Seçkin; Gupta, Kumar S.) Edge currents in non-commutative Chern-Simons theory from a new matrix model. (English summary) **2004j:81186**
Balart, L. *see* **Alfaro, Jorge et al., 2004f:81251**
Balasubramanian, Vijay (*with* Huang, Min-xin; Levi, Thomas S.; Naqvi, Asad) Open strings from $\mathcal{N} = 4$ super Yang-Mills. **2004a:81218**
— (*with* de Boer, Jan; Minic, Djordje) Exploring de Sitter space and holography. (English summary) **2004e:83086**
— (*with* Hassan, S. F.; Keski-Vakkuri, Esko; Naqvi, Asad) Space-time orbifold: a toy model for a cosmological singularity. (English summary) **2004m:83084**
Bandos, Igor A. (*with* Julia, Bernard) Superfield T-duality rules. (English summary) **2004g:81256**
Banerjee, Rabin (*with* Chakraborty, Biswajit; Kumar, Kuldeep[2]) Membrane and non-commutativity. (English summary) **2004g:81281**
Banks, Tom (*with* Dine, Michael; Fox, P. J.; Gorbatov, Elie) On the possibility of large axion decay constants. (English summary)
Barbón, José L. F. (*with* Rabinovici, Eliezer) Remarks on black hole instabilities and closed string tachyons. (English summary) **2004e:83087**
Barbosa, G. Dourado On the meaning of the string-inspired noncommutativity and its implications. (English summary) **2004f:81234**
Bars, Itzhak (*with* Kishimoto, Isao; Matsuo, Yutaka) Fermionic ghosts in Moyal string field theory. (English summary) **2004h:81246**
Barvinskiĭ, A. O. Effective action, braneworld scenario and cosmology. (English summary) **2004b:83106**
— (*with* Nesterov, D. V.) Duality of boundary value problems and braneworld action in curved brane models. (English summary) **2004i:83099**
— (*with* Kamenshchik, A. Yu.; Kiefer, Claus; Rathke, Andreas) Graviton oscillations in the two-brane world. (English summary)
Bastianelli, Fiorenzo (*with* Corradini, Olindo; Zirotti, Andrea) BRST treatment of zero modes for the worldline formalism in curved space. (English summary) **2004m:81257**
Baulieu, Laurent (*with* Laroche, Céline; Nekrasov, Nikita A.) From topological field theories to covariant matrix strings. (English summary) (*see* **2004d:81111**)
Behrndt, Klaus (*with* Mahapatra, Swapna) de Sitter vacua from $N = 2$ gauged supergravity. (English summary) **2004m:83102**
Beisert, Niklas (*with* Staudacher, Matthias; Minahan, Joseph A.; Zarembo, Konstantin) Stringing spins and spinning strings. (English summary) **2004m:81237**
— Higher loops, integrability and the near BMN limit. (English summary) **2004j:81167**
Bekaert, Xavier (*with* Gomberoff, Andrés) Quantization of the Chern-Simons coupling constant. (English summary) **2004b:81223**
Belitsky, A. V. (*with* Gorskiĭ, A. S.; Korchemsky, Gregory P.) Gauge/string duality for QCD conformal operators. (English summary) **2004f:81252**
Bellucci, Stefano (*with* Sochichiu, Corneliu) Fermion doubling and Berenstein-Maldacena-Nastase correspondence. (English summary) **2004h:83078**
Bena, Iosif (*with* de Haro, Sebastian; Roiban, Radu) Generalized Yukawa couplings and matrix models. (English summary) **2004f:81211**
— (*with* Roiban, Radu) Supergravity pp-wave solutions with 28 and 24 supercharges. (English summary) **2004h:83093**
Bennai, Mohamed (*with* Saidi, El Hassan) Toric varieties with NC toric actions: NC type IIA geometry. (English summary) **2004k:81392**
Berenstein, David Quantum moduli spaces from matrix models. (English summary) **2004e:81173**
Bergamin, Luzi (*with* Kummer, Wolfgang) Graded Poisson-sigma models and dilaton-deformed 2D supergravity algebra. (English summary) **2004f:83051**
— (*with* Grumiller, Daniel; Kummer, Wolfgang) Supersymmetric black holes in 2D dilaton supergravity: baldness and extremality. (English summary) **2004m:83103**
Berglund, Per (*with* Brandhuber, Andreas) Matter from G_2 manifolds. (English summary) **2004f:53055**
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— (*with* Maldacena, Juan) $N = 2$ superconformal description of superstring in Ramond-Ramond plane wave backgrounds. (English summary) **2004b:83123**
— (*with* Pershin, Vladimir) Supersymmetric Born-Infeld from the pure spinor formalism of the open superstring. (English summary) **2004e:81202**
Berman, David S. *see* **Bergshoeff, Eric et al., 2004g:81285** *and* **2004g:81286**
Bertola, Marco (*with* Eynard, Bertrand; Harnad, John) The duality of spectral curves that arises in two-matrix models. (Russian. Russian summary) **2004k:82033**
Bertoldi, Gaetano Matrix models, Argyres-Douglas singularities and double scaling limits. (English summary) **2004f:81212**
Bertolini, Matteo (*with* de Boer, Jan; Harmark, Troels; Imeroni, Emiliano; Obers, Niels A.) Gauge theory description of compactified pp-waves. (English summary) **2004f:83081**
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Bhattacharya, Somdatta (*with* Roy, Shibaji) Penrose limit and NCYM theories in diverse dimensions. (English summary) **2004d:83079**
— (*with* Roy, Shibaji) Time dependent supergravity solutions in arbitrary dimensions. (English summary) **2004m:83085**
Bianchi, Massimo (*with* Morales, José F.; Samtleben, Henning) On stringy $AdS_5 \times S^5$ and higher spin holography. (English summary) **2004g:83113**
Bilal, Adel (*with* Metzger, Steffen) Anomaly cancellation in M-theory: a critical review. (English summary) **2004m:81230**
— *see also* **Unity from duality: gravity, gauge theory and strings, 2004d:81004**
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Blau, Matthias (*with* Meessen, Patrick; O'Loughlin, Martin) Gödel, Penrose, anti-Mach: extra supersymmetries of time-dependent plane waves. (English summary) **2004i:83117**
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Blažek, Tomáš (*with* King, Stephen F.; Parry, Jonathan K.) Global analysis of a supersymmetric Pati-Salam model. (English summary)
Blumenhagen, Ralph (*with* Körs, Boris; Lüst, Dieter; Ott, Tassilo) Hybrid inflation in intersecting brane worlds. (English summary) **2004g:83087**
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de Boer, Jan (*with* Halpern, Martin B.; Helfgott, Craig) Twisted Einstein tensors and orbifold geometry. (English summary) **2004h:81217**
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Bordalo, Pedro (*with* Wurtz, Albrecht) D-branes in lens spaces. (English summary) **2004j:81152**
Borokhov, Vadim (*with* Gubser, Steven S.) Non-supersymmetric deformations of the dual of a confining gauge theory. (English summary) **2004e:83092**
Bossard, A. (*with* Mohammedi, N.) Non-abelian T-duality in pre-big-bang cosmology. (English summary) **2004c:83154**
Boulton, Lyonell S. (*with* García del Moral, M. P.; Martín, Isbelia; Restuccia, A.) On the spectrum of a matrix model for the $D = 11$ supermembrane compactified on a torus with non-trivial winding. (English summary) **2004b:83124**
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Boutaleb-Joutei, Hafid (*with* Chafik, A.; Marrakchi, A. L.) Supersymmetric hybrid inflation in the braneworld scenario. (English summary)
Bouwknegt, Peter (*with* Dawson, Peter; Ridout, David) D-branes on group manifolds and fusion rings. (English summary) **2004j:81153**
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Boyda, Edward K. (*with* Ganguli, Surya; Hořava, Petr; Varadarajan, Uday) Holographic protection of chronology in universes of the Gödel type. (English summary) **2004j:83078**

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Brandenberger, Robert (*with* Geshnizjani, G.; Watson, Gary Scott) Initial conditions for brane inflation. (English summary) **2004i:83149**

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Brecher, Dominic (*with* Gregory, James P.; Saffin, P. M.) String theory and the classical stability of plane waves. (English summary) **2004b:83125**

Brenig, Léon *see* **Abramo, L. Raul et al.**, **2004d:83055**

Brihaye, Yves (*with* Chakrabarti, Amitabha[1]; Tchrakian, Tigran D. H.) Particle-like solutions to higher-order curvature Einstein-Yang-Mills systems in d dimensions. (English summary) **2004g:83089**

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Buchel, Alex (*with* Walcher, Johannes) Comments on supergravity description of S-branes. (English summary) **2004m:83087**

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Cariglia, Marco (*with* Lechner, K.) Neveu-Schwarz 5-branes in type-IIA supergravity and gravitational anomalies. (English summary) **2004e:83114**

Carneiro da Cunha, Bruno G. (*with* Martinec, Emil J.) Closed string tachyon condensation and worldsheet inflation. (English summary) **2004k:83136**

Carrion, Hector Leny (*with* Rojas, Moises; Toppan, Francesco) Octonionic realizations of one-dimensional extended supersymmetries. A classification. (English summary) **2004e:81065**

Carrión, Juan Martín *see* **González-Díaz, Pedro F.**, **2004k:83108**

Cartas-Fuentevilla, R. Adjoint operators, gauge invariant perturbations, and covariant symplectic form for black holes in string theory. (English summary) **2004b:83060**

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— The Euler characteristic and the first Chern number in the covariant phase space formulation of string theory. (English summary) **2004i:53114**

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Casero, Roberto (*with* Trincherini, Enrico) Phases and geometry of the $\mathcal{N} = 1$ A_2 quiver gauge theory and matrix models. (English summary) **2004j:81170**

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Chaichian, Masud (*with* Polyakov, Dimitri; Tureanu, Anca) Non-commutativity and Ramond-Ramond fields. (English summary) **2004b:81225**

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Chakrabarti, Amitabha[1] *see* **Brihaye, Yves et al.**, **2004g:83089**

Chakraborty, Biswajit *see* **Banerjee, Rabin et al.**, **2004g:81281**

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Ciesielski, Rafał (*with* Lalak, Zygmunt) Racetrack models in theories from extra dimensions. (English summary) **2004a:83071**

Ciocarlie, Calin *see* **Chepelev, Iouri**, **2004f:81238**

Cirafici, Michele *see* **Alday, Luis Fernando**, **2004e:83084**; **2004f:81204** *and* **2004j:81160**

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Coley, Alan A. A class of exact classical solutions to string theory. (English summary) **2004h:83079**

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Conde, Jorge *see* **Álvarez, Enrique et al.**, **2004k:83132**

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Copeland, Edmund J. *see* **Antunes, Nuno D. et al.**, **2004k:83133**

Corley, Steven (*with* Lowe, David A.) Probing the enhancon via calculations in supersymmetric gauge theory. (English summary) **2004g:81260**

Cornalba, Lorenzo (*with* Costa, Miguel S.) On the classical stability of orientifold cosmologies. (English summary) **2004j:83126**

Corradini, Olindo *see* **Bastianelli, Fiorenzo et al.**, **2004m:81257**

Corrado, Richard A. From a conformal anomaly to a theory of tensionless strings? (English summary) (*see* **2004d:81111**)

— (*with* Halmagyi, Nick; Kennaway, Kristian D.; Warner, Nicholas P.) Penrose limits of RG fixed points and pp-waves with background fluxes. (English summary) **2004b:83142**

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Costa, Miguel S. *see* **Cornalba, Lorenzo**, **2004j:83126**

Couchoud, Nicolas Anti-de Sitter branes with Neveu-Schwarz and Ramond-Ramond backgrounds. (English summary) **2004b:83126**

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Cremades, Daniel (*with* Ibáñez, Luis E.; Marchesano, Fernando) SUSY quivers, intersecting branes and the modest hierarchy problem. (English summary) **2004a:81221**

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— Plane waves with weak singularities. (English summary) **2004k:83138**

Davidson, Aharon *see* **Karasik, David**, **2004g:83104**

Davies, Ian James (*with* Mansfield, Paul) A large-D Weyl invariant string in anti-de Sitter space. (English summary) **2004e:83097**

Davis, Anne Christine *see* **Majumdar, Mahbub**

Dawson, Peter *see* **Bouwknegt, Peter et al.**, **2004j:81153**

Deger, Nihat Sadik Non-standard intersections of S-branes in $D = 11$ supergravity. (English summary) **2004c:83141**

— *see also* **Arapoglu, S. et al.**, **2004m:83101**

Deliduman, Cemsinan AdS_2 D-branes in Lorentzian AdS_3. (English summary) **2004k:83139**

Denef, Frederik On the correspondence between D-branes and stationary supergravity solutions of type II Calabi-Yau compactifications. (English summary) **2004e:83098**

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Dine, Michael *see* **Banks, Tom et al.**

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Easther, Richard (*with* Greene, Brian R.; Jackson, Mark G.; Kabat, Daniel) Brane gas cosmology in M theory: late time behavior. (English summary) **2004h:83081**

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Evans, Nick *see* **Babington, James et al., 2004g:83135**

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García del Moral, M. P. *see* **Boulton, Lyonell S. et al., 2004b:83124** *and* **2004i:83119**

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Gómez-Reino, Marta (*with* Zavala C., Ivonne) Recombination of intersecting D-branes and cosmological inflation. (English summary) **2004c:83122**
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Gupta, Kumar S. *see* **Balachandran, Aiyalam P. et al., 2004j:81186**
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Halpern, Martin B. *see* **de Boer, Jan et al., 2004h:81217**
Hamanaka, Masashi (*with* Toda, Kouichi) Towards noncommutative integrable systems. (English summary) **2004i:37165**
Hanany, Amihay *see* **Franco, Sebastián, 2004h:81232** *and* **2004h:81233**
Hanson, Heather Ann *see* **Cleaver, Gerald B. et al., 2004c:81319**
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Harvey, Jeffrey A. *see* **Craps, Ben et al., 2004i:81215** *and* **Gregory, Ruth, 2004j:83141**
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Kaya, Ali Open cosmic strings in black hole space-times. (English summary) **2004b:83066**

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Kazama, Yoichi *see* **Aisaka, Yuri, 2004d:81137**

Kechkin, Oleg V. *see* **Herrera-Aguilar, Alfredo, 2004i:83125**

Kehagias, Alex *see* **Gherghetta, Tony, 2004c:83121**; **2004k:83158** *and* **Axenides, Minos et al., 2004d:81121**

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Kerimov, G. A. Correspondence between quantum field theory on Riemannian and pseudo-Riemannian space of positive constant curvature. (English summary) **2004j:81116**

Kerstan, Sven F. *see* **Drummond, James M. et al., 2004i:81232**

Keski-Vakkuri, Esko *see* **Balasubramanian, Vijay et al., 2004m:83084**

Ketov, Sergei V. Summing up D-instantons in $N = 2$ supergravity. (English summary) **2004b:83150**

Khan, Alex *see* **Larsen, A. L., 2004m:83096**

Khoze, Valentin V. *see* **Dorey, Nick et al., 2004c:81163** *and* **Georgiou, George et al., 2004k:81363**

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Kingaby, Tom *see* **Hollowood, Timothy J., 2004e:81185**
Kiritsis, Elias *see* **Antoniadis, Ignatios et al., 2004d:81161** *and* **D'Appollonio, Giuseppe, 2004k:83137**
Kishimoto, Isao *see* **Bars, Itzhak et al., 2004h:81246**
Kitazawa, Noriaki Gaugino condensation in heterotic five-brane background. (English summary)
Kleban, Matthew *see* **Goheer, Naureen et al., 2004i:83123**
Klebanov, Igor R. (*with* Witten, Edward) Proton decay in intersecting D-brane models. (English summary) **2004k:81431**
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Klemm, Albrecht (*with* Mariño, Marcos; Theisen, Stefan) Gravitational corrections in supersymmetric gauge theory and matrix models. (English summary) **2004e:81187**
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Klemm, Dietmar *see* **Caldarelli, Marco M., 2004i:83135**
Klimčík, Ctirad Yang-Baxter σ-models and dS/AdS T-duality. (English summary) **2004f:81202**
Klose, Thomas *see* **Kim, Nakwoo et al., 2004i:81240**
Klusoň, Josef Remark about dS/CFT correspondence. (English summary) **2004k:81331**
— The Schrödinger wave functional and S-branes. (English summary) **2004j:83128**
Kogan, Ian I. (*with* Polyakov, Dimitri) Ghost-matter mixing and Feigenbaum universality in string theory. (Russian) **2004j:81112**
Kokorelis, Christos Exact standard model compactifications from intersecting branes. (English summary) **2004c:81274**
Konechny, Anatoly *see* **Giveon, Amit et al., 2004k:81328**
Konshteĭn, S. E. (*with* Vasil′ev, M. A.; Zaikin, V. N.) Conformal higher spin currents in any dimension and AdS/CFT correspondence. (English summary) **2004g:81246**
Korchemsky, Gregory P. *see* **Belitsky, A. V. et al., 2004f:81252**
Körs, Boris *see* **Blumenhagen, Ralph et al., 2004g:83087**
Kostov, Ivan K. Boundary correlators in 2D quantum gravity: Liouville versus discrete approach. (English summary) **2004d:83052**
Kovtun, Pavel (*with* Son, Dam Thanh; Starinets, Andrei O.) Holography and hydrodynamics: diffusion on stretched horizons. (English summary) **2004j:83130**
Koyama, Kazuya *see* **Shiromizu, Tetsuya et al., 2004f:83091**
Kraniotis, Georgios V. *see* **Bailin, David et al., 2004e:81225**
Krasnitz, Michael Correlation functions in a cascading $N = 1$ gauge theory. (English summary) **2004a:83073**
Kraus, Per (*with* Ryzhov, Anton V.; Shigemori, Masaki) Loop equations, matrix models, and $\mathcal{N} = 1$ supersymmetric gauge theories. (English summary) **2004e:81188**
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Kruczenski, Martin A note on twist two operators in $N = 4$ SYM and Wilson loops in Minkowski signature. (English summary) **2004a:81228**
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Kumar, Jason A brief comment on instanton-like singularities and cosmological horizons. (English summary) **2004e:83103**
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Kumar, Kuldeep[2] *see* **Banerjee, Rabin et al., 2004g:81281**
Kummer, Wolfgang *see* **Bergamin, Luzi et al., 2004f:83051** *and* **2004m:83103**
Kunze, Kerstin E. T-duality and Penrose limits of spatially homogeneous and inhomogeneous cosmologies. (English summary) **2004k:83148**
Kurita, Yasunari (*with* Sakagami, Masa-aki) Quasinormal modes of D3-brane black holes. (English summary) **2004b:83134**
Kürkçüoğlu, Seçkin *see* **Balachandran, Aiyalam P. et al., 2004j:81186**
Kuroki, Tsunehide *see* **Kawai, Hikaru et al., 2004m:81250**
Kutasov, David *see* **Elitzur, Shmuel et al., 2004c:83119**
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Lambert, Neil D. *see* **Constable, Neil R., 2004a:53055**
Langfelder, Peter *see* **Buchel, Alex et al., 2004m:83088**
Laroche, Céline *see* **Baulieu, Laurent et al., (2004d:81111)**
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Lerda, Alberto *see* **Di Vecchia, Paolo et al., 2004b:81208** *and* **Supergravity and gauge theories**
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Lewis, Matthew J. *see* **Freese, Katherine et al., 2004g:83095**
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Lifschytz, Gilad Cut-off QFT and black hole entropy. (English summary) **2004f:83042**
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Lin, Feng-Li *see* **Chen, Bin[5] et al., 2004h:83097**
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Linares, Román *see* **Bergshoeff, Eric et al., 2004d:83091**; **2004e:83088** *and* **Alonso-Alberca, Natxo et al., 2004e:83112**
Linde, Andrei *see* **Kallosh, Renata et al., 2004b:83148**; **2004b:83149**; **2004f:83102** *and* **Gutperle, Michael et al., 2004g:83117**
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Lippert, Matthew *see* **Freivogel, Ben et al., 2004b:83128**
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Liu, James T. (*with* Sabra, Wafic A.) Charged configurations in (A)dS spaces. (English summary) **2004i:83130**
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Liu, Kefeng Mathematical results inspired by physics. (English summary) **2004d:11028**
Liu, Xiao *see* **Kachru, Shamit et al., 2004h:83086**
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Lledó, María A. *see* **Andrianopoli, Laura et al., 2004a:83076**; **D'Auria, Riccardo et al., 2004b:83127** *and* **Ferrara, Sergio et al., 2004j:81194**
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Louis, Jan Mirror symmetry in Calabi-Yau compactifications with background flux. (English summary) **2004g:83123**
Love, Alexander *see* **Bailin, David et al., 2004e:81225**
Lowe, David A. *see* **Kabat, Daniel et al., 2004c:83127** *and* **Corley, Steven, 2004g:81260**
Lozano, Carlos *see* **Ennes, Isabel P. et al., 2004c:81264** *and* **2004c:81265**
Lozano, Yolanda *see* **Janssen, Bert, 2004b:83131** *and* **2004c:83126**
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Lukas, André *see* **Brändle, Matthias, 2004j:83120** *and* **Antunes, Nuno D. et al., 2004k:83133**
Lunin, Oleg (*with* Mathur, Samir D.; Saxena, Ashish) What is the gravity dual of a chiral primary? (English summary) **2004i:83131**
— *see also* **Gimon, Eric G. et al., 2004h:83083**
Lüst, Dieter *see* **Blumenhagen, Ralph et al., 2004g:81312** *and* **2004g:83087**
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Maciá, Oscar *see* **Ferrara, Sergio et al., 2004j:81194**
Maeda, Kei-ichi *see* **Uzawa, Kunihito, 2004k:83129**
Maeda, Yoshiaki (*with* Kajiura, Hiroshige) String theories and deformation quantization. (Japanese) **2004i:53132**
Mahapatra, Swapna *see* **Behrndt, Klaus, 2004m:83102**
Maimon, Ron *see* **Argyres, Philip C. et al., 2004a:81216**
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Maldacena, Juan Eternal black holes in anti-de Sitter. (English summary) **2004e:83037**
— *see also* **Berkovits, Nathan, 2004b:83123**

Maloney, Alexander *see* **Strominger, Andrew et al.**
Mandal, Gautam *see* **David, Justin R. et al., 2004c:83117**
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Månsson, Teresia Another Leigh-Strassler deformation through the matrix model. (English summary) **2004d:81129**
Manvelyan, Ruben *see* **Nichols, Alexander et al.**
Marchesano, Fernando *see* **Cremades, Daniel et al., 2004a:81221**
Marchetti, P. A. *see* **Lechner, K., 2004j:81164**
Marín, M. C. *see* **Nieto, J. A., 2004k:83162**
Mariño, Marcos *see* **Klemm, Albrecht et al., 2004e:81187**
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Marrakchi, A. L. *see* **Boutaleb-Joutei, Hafid et al.**
Marrero, Juan Carlos *see* **de León, Manuel et al., 2004g:70050**
Martelli, Dario (*with* Mück, Wolfgang) Holographic renormalization and Ward identities with the Hamilton-Jacobi method. (English summary) **2004c:81167**
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Martín, Isbelia *see* **Boulton, Lyonell S. et al., 2004b:83124**
Martín de Diego, D. *see* **de León, Manuel et al., 2004g:70050**
Martinec, Emil J. *see* **Carneiro da Cunha, Bruno G., 2004k:83136**
Maru, Nobuhito *see* **Eto, Minoru et al., 2004i:83138** *and* **Haba, Naoyuki**
Mas, Javier (*with* Ramallo, Alfonso V.) Supersymmetric intersections of M-branes and pp-waves. (English summary) **2004e:83106**
Mateos, David *see* **Kruczenski, Martín et al., 2004g:81264**
Mateos, Toni *see* **Brugués, Jan et al., 2004a:83070; 2004g:81258** *and* **Gomis, Joaquim et al., 2004i:83124**
Mathur, Samir D. A proposal to resolve the black hole information paradox. (English summary) **2004e:83039**
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Matsuda, Tomohiro Incidental brane defects. (English summary) **2004j:83131**
Matsuo, Yutaka *see* **Bars, Itzhak et al., 2004h:81246**
Mattis, Michael P. *see* **Dorey, Nick et al., 2004c:81163**
Matyszkiewicz, Radosław *see* **Lalak, Zygmunt, 2004e:83117**
Mazzucato, Luca *see* **Matone, Marco, 2004g:81267** *and* **2004j:81178**
McInnes, Brett The strong energy condition and the S-brane singularity problem. (English summary) **2004m:83097**
McLoughlin, Tristan *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
Meessen, Patrick *see* **Bain, Pascal et al., 2004a:83078** *and* **Blau, Matthias et al., 2004i:83117**
Meissner, Krzysztof A. (*with* Olechowski, Marek) General warped solutions in 5D dilaton gravity. (English summary) **2004h:83074**
Merlatti, Paolo About the enhançon mechanism. (English summary) **2004c:83131**
— $\mathcal{N}=1$ super Yang-Mills theories and wrapped branes. (English summary) **2004h:81238**
— *see also* **Di Vecchia, Paolo et al., 2004b:81208** *and* **Bertolini, Matteo, 2004f:81213**
Metsaev, R. R. Light-cone approach to eleven dimensional supergravity. (English summary) **2004e:83118**
— Supersymmetric D3 brane and $\mathcal{N}=4$ SYM actions in plane wave backgrounds. (English summary) **2004d:81130**
Metzger, Steffen *see* **Bilal, Adel, 2004m:81230**
Meziane, Ahmed *see* **Leonhardt, Thorsten et al., 2004c:81276** *and* **2004h:81237**
Mikhailov, Andrei *see* **Gross, David J. et al., 2004j:81174**
Mikulović, Džo Seiberg-Witten map for superfields on canonically deformed $N=1$, $d=4$ superspace. (English summary) **2004m:81270**
Milson, R. *see* **Coley, Alan A. et al., 2004j:83125**
Minahan, Joseph A. *see* **Engquist, Johan et al., 2004k:81361** *and* **Beisert, Niklas et al., 2004m:81237**
Minasian, Ruben *see* **Kaste, Peter et al., 2004b:83132**
Minic, Djordje (*with* Tze, Chia-Hsiung) Background independent quantum mechanics and gravity. (English summary) **2004k:83048**
— *see also* **Berglund, Per et al., 2004c:83115; 2004c:83116** *and* **Balasubramanian, Vijay et al., 2004e:83086**
Minwalla, Shiraz *see* **Gutperle, Michael et al., 2004a:83072** *and* **Constable, Neil R. et al., 2004b:81205**
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Mizoguchi, Shun'ya (*with* Mogami, Takeshi; Satoh, Yuji) Penrose limits and Green-Schwarz strings. (English summary) **2004d:83083**
Mkrtchyan, Ruben Brane content of branes' states. (English summary) **2004c:81277**
Mogami, Takeshi *see* **Mizoguchi, Shun'ya et al., 2004d:83083**
Mohammedi, N. *see* **Bossard, A., 2004c:83154**
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Moore, Gregory W. *see* **Diaconescu, Duiliu-Emanuel et al., 2004i:58062**
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— String theory on Dp-plane waves. (English summary) **2004c:83132**
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Moreno, Jorge *see* **García-Compeán, H., 2004b:81228**
Morita, Takeshi *see* **Kawai, Hikaru et al., 2004m:81250**
Moriyama, Sanefumi *see* **Gomis, Jaume et al., 2004b:81212**
Morozov, A. Yu. *see* **Itoyama, Hiroshi, 2004f:81217**
Mosaffa, Amir E. *see* **Alishahiha, Mohsen et al., 2004m:83083**
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Moss, Ian G. Zeta functions, anomalies and stable branes.
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Motl, Luboš *see* **Constable, Neil R. et al., 2004b:81205** *and* **Gomis, Jaume et al., 2004e:83101**
Moura, Filipe Four dimensional supersymmetrization of $\mathbf{R}^4$. (English summary) (*see* **2004m:83003**)
Mück, Wolfgang Holographic renormalization and Ward identities with the Hamilton-Jacobi method. (English summary) **2004g:81156**
— Perturbative and non-perturbative aspects of pure $\mathcal{N}=1$ super Yang-Mills theory from wrapped branes. (English summary) **2004c:81278**
— *see also* **Martelli, Dario, 2004c:81167**
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Mukhi, Sunil (*with* Suryanarayana, Nemani V.) Open-string actions and noncommutativity beyond the large-B limit. (English summary) **2004a:81241**
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Myers, Robert C. *see* **Kruczenski, Martín et al., 2004g:81264**
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Nam, Soonkeon *see* **Ahn, Changhyun, 2004e:81172** *and* **2004g:81252**
Naqvi, Asad *see* **Balasubramanian, Vijay et al., 2004a:81218** *and* **2004m:83084**
Narain, Kumar S. *see* **David, Justin R. et al., 2004k:81345**
Nayak, Rashmi R. D-branes at an angle in a pp-wave background. (English summary) **2004f:83088**
Nekrasov, Nikita A. Lectures on open strings, and noncommutative gauge theories. (English summary) **2004j:81198**
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Nesterov, D. V. *see* **Barvinskiĭ, A. O., 2004i:83099**
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Ng, Selena (*with* Perry, Malcolm) Brane splitting via quantum tunneling. (English summary) **2004d:83084**
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Nicolai, Hermann (*with* Samtleben, Henning) Kaluza-Klein supergravity on $AdS_3 \times S^3$. (English summary) **2004i:83142**
Nieder, Harald *see* **Brandhuber, Andreas et al., 2004i:81230**
Nielsen, Mikkel *see* **Bergshoeff, Eric et al., 2004c:83088; Gran, Ulf, 2004e:83115** *and* **Cederwall, Martin et al., 2004g:83138**
Nieto, J. A. (*with* Marín, M. C.) Search for a "gravitoid" theory. (English summary) **2004k:83162**
van Nieuwenhuizen, Peter *see* **Grassi, Pietro A. et al., 2004c:81285** *and* **de Boer, Jan et al., 2004i:81251**
Nilles, Hans Peter *see* **Gmeiner, F. et al., 2004a:81215**
Nilsson, Bengt E. W. *see* **Cederwall, Martin et al., 2004g:83138**
Nishimura, Madoka A note on supersymmetry in noncommutative field theories. (English summary) **2004g:81268**
Nishino, Hitoshi (*with* Rajpoot, Subhash) Gauged $N=2$ supergravity in nine dimensions and domain wall solutions. (English summary) **2004a:83082**
— (*with* Rajpoot, Subhash) Self-dual $N=(1,0)$ supergravity in eight dimensions with reduced holonomy Spin(7). (English summary) **2004i:83143**
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Nomura, Yasunori *see* **Hall, Lawrence J. et al.**
Nooij, Sander E. M. *see* **Cleaver, Gerald B. et al., 2004k:81430**
Novak, E. G. *see* **Brustein, Ram et al., 2004j:83121** *and* **2004j:83122**
Núñez, Alvaro (*with* Starinets, Andrei O.) AdS/CFT correspondence, quasinormal modes, and thermal correlators in $\mathcal{N}=4$ supersymmetric Yang-Mills theory. (English summary) **2004h:81240**
Núñez, Carlos *see* **Burgess, Clifford P. et al., 2004h:83096**
Obers, Niels A. *see* **Janik, Romuald A., 2004f:81218; Bertolini, Matteo et al., 2004f:83081** *and* **Harmark, Troels, 2004g:83053**

Odintsov, Sergei D. Brane new world and dS/CFT correspondence. (English and Russian summaries) **2004j:83112**
— *see also* **Nojiri, Shin'ichi**, **2004e:83079**; **2004f:83074** *and* **2004g:83109**
Oh, John J. *see* **Kim, Sung-Won et al.**, **2004g:83120**
Oh, Kyungho (*with* Tatar, Radu) Duality and confinement in $\mathcal{N} = 1$ supersymmetric theories from geometric transitions. (English summary) **2004k:81379**
— (*with* Tatar, Radu) Orbifolds, Penrose limits, and supersymmetry enhancement. (English summary) **2004d:83085**
Ohta, Kazutoshi Exact mesonic vacua from Matrix models. (English summary) **2004d:81133**
Ohta, Nobuyoshi (*with* Panigrahi, Kamal L.; Sanjay) Intersecting branes in pp-wave spacetime. (English summary) **2004i:83133**
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— *see also* **Chen, Chiang-Mei et al.**
Okada, Nobuchika *see* **Luty, Markus A.**, **2004d:83096**
Okui, Takemichi *see* **Hall, Lawrence J. et al.**
Olechowski, Marek *see* **Gmeiner, F. et al.**, **2004a:81215** *and* **Meissner, Krzysztof A.**, **2004h:83074**
Oliver, Steven J. *see* **Hall, Lawrence J. et al.**
O'Loughlin, Martin *see* **Arcioni, Giovanni et al.**, **2004e:83059**; **Blau, Matthias et al.**, **2004e:83089** *and* **2004i:83117**
Onda, Sumitada *see* **Shiromizu, Tetsuya et al.**
Ookouchi, Yutaka (*with* Watabiki, Yoshiyuki) Effective superpotentials for SO/Sp with flavor from matrix models. (English summary) **2004e:81193**
Orlov, D. O. *see* **Kapustin, Anton**, **2004f:14053**
Orselli, Marta *see* **De Risi, Giuseppe et al.**, **2004a:81235**
Ortín, Tomás *see* **Alonso-Alberca, Natxo et al.**, **2004e:83112**
Osborn, Hugh *see* **Arutyunov, Gleb E. et al.**, **2004i:81228**
Ott, Tassilo *see* **Blumenhagen, Ralph et al.**, **2004g:83087**
Ovrut, Burt A. (*with* Reinbacher, René; Pantev, Tony) Torus-fibered Calabi-Yau threefolds with non-trivial fundamental group. (English summary) **2004i:14047**
— *see also* **Doran, Charles F. et al.**, **2004b:81210** *and* **Donagi, Ron et al.**, **2004k:14066**
Oz, Yaron (*with* Sakai, Tadakatsu) Exact anomalous dimensions for $\mathcal{N} = 2$ *ADE* SCFTs. (English summary) **2004b:81190**
— *see also* **Gherghetta, Tony**, **2004b:83113** *and* **Brandhuber, Andreas et al.**, **2004i:81230**
Ozakin, Arkadas *see* **Gubser, Steven S.**, **2004k:83145**
(Paban, Sonia) *see* **Pouliot, Philippe**, **2004b:81235**
Page, David C. (*with* Smith, Douglas J.) Giant gravitons in non-supersymmetric backgrounds. (English summary) **2004h:83089**
Pakis, Stathis *see* **Gauntlett, Jerome P. et al.**, **2004m:83104**
Pakman, Ari BRST quantization of string theory in AdS_3. (English summary) **2004f:81233**
— *see also* **Giveon, Amit et al.**, **2004i:83122** *and* **2004k:81328**
Pal, Shesansu Sekhar A note on noncommutative string theory and its low energy limit. (English summary) **2004g:81296**
— *see also* **Biswas, Anindya et al.**
Panda, Sudhakar *see* **de Roo, Mees et al.**, **2004k:83164**
Pandharipande, Rahul *see* **Hori, Kentaro et al.**, **2004g:14042**
Pando Zayas, Leopoldo A. *see* **Marolf, Donald**, **2004c:83130**; **Gimon, Eric G. et al.**, **2004g:81159** *and* **Buchel, Alex**, **2004j:81168**
Panero, Marco *see* **Caselle, Michele et al.**, **2004a:81171**
Panigrahi, Kamal L. *see* **Ohta, Nobuyoshi et al.**, **2004i:83133**
Pantev, Tony *see* **Ovrut, Burt A. et al.**, **2004i:14047** *and* **Donagi, Ron et al.**, **2004k:14066**
Papadopoulos, George (*with* Tsimpis, Dimitrios) The holonomy of the supercovariant connection and Killing spinors. (English summary) **2004f:53056**
— *see also* **Gutowski, Jan B.**, **2004c:83145** *and* **Gillard, Joe et al.**, **2004f:81206**
Parameswaran, Susha L. *see* **Aghababaie, Yashar et al.**, **2004c:83136**
Paredes, Ángel *see* **Edelstein, José Daniel et al.**, **2004c:83118**; **2004c:83142** *and* **2004d:83093**
Parikh, Maulik K. (*with* Savonije, Ivo; Verlinde, Erik) Elliptic de Sitter space: $dS/\mathbb{Z}_2$. (English summary) **2004j:83025**
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— *see also* **Hyun, Seungjoon et al.**, **2004c:81271**
Park, Jongwon *see* **Gomis, Jaume et al.**, **2004b:81212**
Parry, Jonathan K. *see* **Blažek, Tomáš et al.**
Parvizi, Shahrokh *see* **Alishahiha, Mohsen**, **2004a:83067**
Pasti, P. (*with* Sorokin, D. P.; Tonin, M.) Superembeddings, branes and nonlinear realizations. (English summary) **2004g:83125**
Patricot, Christophe Kaigorodov spaces and their Penrose limits. (English summary) **2004e:83108**
Peet, Amanda W. *see* **Leblond, Frédéric**, **2004e:83104**
Pelavas, N. *see* **Coley, Alan A. et al.**, **2004j:83125**
Pelland, Sophie *see* **Argyres, Philip C. et al.**, **2004a:81216**
Penrose, Roger On the instability of extra space dimensions.
Pérez-Victoria, Manuel *see* **del Aguila, Francisco et al.**, **2004c:81317**
Perkins, John Thomas *see* **Cleaver, Gerald B. et al.**, **2004c:81319**
Perry, Malcolm Black holes and string theory.
— *see also* **Ng, Selena**, **2004d:83084**
Pershin, Vladimir Interaction of higher spin massive fields with gravity in string theory. (English summary) **2004g:83126**
— *see also* **Berkovits, Nathan**, **2004e:81202**
(Pesando, Igor) *see* **Supergravity and gauge theories**
Pestun, Vasily (*with* Zarembo, Konstantin) Comparing strings in $AdS_5 \times S^5$ to planar diagrams: an example. (English summary) **2004e:81194**
Peter, Patrick *see* **Fabris, J. C. et al.**, **2004h:83105**
Petrini, Michela *see* **Kaste, Peter et al.**, **2004b:83132**
Petropoulos, P. Marios On AdS_3 string theory. (English summary) (*see* **2004d:81111**)
Philbin, T. G. Supergravity and IOSp(3, 1|4) gauge theory. (English summary) **2004j:83144**
Pickles, Mike (*with* Urrestilla, Jon) Nielsen-Olesen strings in supersymmetric models. (English summary) **2004b:81216**
Pinto-Neto, Nelson *see* **Fabris, J. C. et al.**, **2004h:83105**
Pinzul, A. (*with* Stern, Allen) Can classical wormholes stabilize the brane–anti-brane system? (English summary) **2004j:83132**
Plefka, Jan Christoph *see* **Kristjansen, C. et al.**, **2004a:81227** *and* **Kim, Nakwoo et al.**, **2004i:81240**
(Plümacher, M.) *see* **Conference: String Phenomenology**, **2004d:81001**
Plyushchaĭ, M. S. (*with* Sorokin, D. P.; Tsulaia, Mirian) Higher spins from tensorial charges and $OSp(N|2n)$ symmetry. (English summary) **2004g:83145**
Polchinski, Joseph *see* **Graña, Mariana**, **2004e:81181**
Policastro, Giuseppe (*with* Son, Dam Thanh; Starinets, Andrei O.) From AdS/CFT correspondence to hydrodynamics. II. Sound waves. (English summary) **2004b:81218**
— *see also* **Grassi, Pietro A. et al.**, **2004c:81285**
Pollock, M. D. Causality and supersymmetry in the superstring theory. (English summary) **2004g:83127**
Polyakov, Dimitri *see* **Chaichian, Masud et al.**, **2004b:81225** *and* **Kogan, Ian I.**, **2004j:81112**
Pons, Josep M. (*with* Talavera, Pere) Semi-classical string solutions for $\mathcal{N} = 1$ SYM. (English summary) **2004h:81241**
— *see also* **Grassi, Pietro A. et al.**, **2004c:81285**
Pope, C. N. *see* **Cvetič, Mirjam et al.**, **2004e:83095**; **2004h:53074**; **2004i:53058**; **2004i:83137**; **Lü, Hong[1] et al.**, **2004f:83094** *and* **Retraction: "Cohomogeneity one manifolds of Spin(7) and G_2 holonomy"**, **2004h:53074**
Poppitz, Erich *see* **Giedt, Joel et al.**, **2004b:81197**
Porrati, Massimo *see* **Ferrara, Sergio**, **2004b:83144** *and* **Luty, Markus A. et al.**
Postnikov, A. E. *see* **Constable, Neil R. et al.**, **2004b:81205**
Pouliot, Philippe Evidence for winding states in noncommutative quantum field theory. **2004b:81235**
Pravda, V. *see* **Coley, Alan A. et al.**, **2004j:83125**
Pravdová, A. *see* **Coley, Alan A. et al.**, **2004j:83125**
Prem Kumar, S. *see* **Dorey, Nick et al.**, **2004f:81214** *and* **2004f:81215**
Prezas, Nikolaos *see* **Niarchos, Vasilis**, **2004f:81224**
Prokushkin, S. F. *see* **Kallosh, Renata et al.**, **2004b:83148**
Pujolàs, Oriol *see* **Flachi, Antonino et al.**, **2004k:83144**
Quella, Thomas (*with* Schomerus, Volker) Symmetry breaking boundary states and defect lines. (English summary) **2004a:81213**
— (*with* Schomerus, Volker) Asymmetric cosets. (English summary) **2004k:81337**
Quevedo, Fernando Lectures on string/brane cosmology. (English summary) **2004e:83109**
— *see also* **Aghababaie, Yashar et al.**, **2004c:83136**; **Burgess, Clifford P. et al.**, **2004e:83093**; **2004h:83096**; **2004j:83124** *and* **Escoda, Cristina et al.**, **2004k:83141**
Rabadán, Raúl (*with* Shiu, Gary) (Re)constructing dimensions. (English summary) **2004e:83082**
Rabinovici, Eliezer *see* **Elitzur, Shmuel et al.**, **2004c:83119** *and* **Barbón, José L. F.**, **2004e:83087**
Rahmfeld, J. Superspace: bulk vs. boundary. (English summary) **2004h:81220**
Rajaraman, Arvind *see* **Kumar, Jason**, **2004g:83141**
Rajesh, Govindan *see* **Dasgupta, Keshav et al.**, **2004f:83082**
Rajpoot, Subhash *see* **Nishino, Hitoshi**, **2004a:83082** *and* **2004i:83143**
Ramallo, Alfonso V. *see* **Edelstein, José Daniel et al.**, **2004c:83118**; **2004c:83142**; **2004d:83093** *and* **Mas, Javier**, **2004e:83106**
Ramírez, Toni *see* **Brugués, Jan et al.**, **2004a:83070** *and* **2004g:81258**
Randjbar-Daemi, Seif (*with* Shaposhnikov, Mikhail) A formalism to analyze the spectrum of brane world scenarios. (English summary) **2004h:83076**
Rangamani, Mukund *see* **Hubeny, Veronika E. et al.**, **2004b:83130**; **2004i:83127** *and* **Gimon, Eric G. et al.**, **2004h:83083**
Rathke, Andreas *see* **Barvinskiĭ, A. O. et al.**
Rattazzi, Riccardo *see* **Luty, Markus A. et al.**
Reall, Harvey S. *see* **Gutowski, Jan B. et al.**, **2004i:83140**
Recknagel, Andreas On permutation branes. (English summary)
— Permutation branes. (English summary) **2004d:81113**
Redi, Michele Brane running and AdS/CFT. (English summary) **2004e:83110**
Rehren, K.-H. *see* **Dütsch, M.**, **2004a:81170**
Reinbacher, René *see* **Ovrut, Burt A. et al.**, **2004i:14047** *and* **Donagi, Ron et al.**, **2004k:14066**
Restuccia, A. *see* **Boulton, Lyonell S. et al.**, **2004b:83124** *and* **2004i:83119**
Rey, Soo-Jong (*with* Yee, Jung-Tay) Softer hard scattering and noncommutative gauge-string duality. (English summary) **2004h:81256**
— *see also* **Burgess, Clifford P. et al.**, **2004e:83093** *and* **Hikida, Yasuaki**, **2004g:83118**
Rhedin, Henric *see* **Ennes, Isabel P. et al.**, **2004c:81264**
Ribault, Sylvain Two AdS_2 branes in the Euclidean AdS_3. (English summary) **2004e:83111**
Ridout, David *see* **Bouwknegt, Peter et al.**, **2004j:81153**
Riegler, Erwin *see* **Kreuzer, Maximilian et al.**, **2004h:14044**
Rivelles, Victor O. Quantization in AdS and the AdS/CFT correspondence. (English summary) **2004g:83128**
Rizos, J. *see* **Antoniadis, Ignatios et al.**, **2004d:81161**
Robbins, Daniel *see* **Dasgupta, Keshav et al.**, **2004f:83082**
Robbins, David D. *see* **Cleaver, Gerald B. et al.**, **2004c:81319**
Roest, Diederik *see* **Bergshoeff, Eric et al.**, **2004d:83091**; **2004e:83088** *and* **Alonso-Alberca, Natxo et al.**, **2004e:83112**
Roiban, Radu (*with* Tatar, Radu; Walcher, Johannes) Massless flavor in geometry and matrix models. (English summary) **2004j:81182**
— *see also* **Bena, Iosif et al.**, **2004f:81211**; **2004h:83093** *and* **Gross, David J. et al.**, **2004j:81174**
Rojas, Moises *see* **Carrion, Hector Leny et al.**, **2004e:81065**
Römelsberger, Christian *see* **Ashok, Sujay K. et al.**, **2004f:81210** *and* **Brandhuber, Andreas et al.**, **2004i:81230**
de Roo, Mees (*with* Westra, Dennis B.; Panda, Sudhakar; Trigiante, Mario) Potential and mass-matrix in gauged $N = 4$ supergravity. (English summary) **2004k:83164**
Rossi, Michele *see* **Grassi, Antonella**, **2004b:81195**
Roy, Shibaji On supergravity solutions of space-like Dp-branes. (English summary) **2004c:83133**
— *see also* **Bhattacharya, Somdatta**, **2004d:83079** *and* **2004m:83085**
Rozali, Moshe *see* **Giedt, Joel et al.**, **2004b:81197**

Ruan, Yongbin Stringy geometry and topology of orbifolds. **2004b:32051**
Ruchayskiy, Oleg *see* **Boyarskiĭ, A. M., 2004c:81111**
Rühl, Werner *see* **Leonhardt, Thorsten et al., 2004c:81276** *and* **2004h:81237**
Runkel, Ingo *see* **Fuchs, Jürgen et al.**
Russo, Jorge G. Anomalous dimensions in gauge theories from rotating strings in $AdS_5 \times S^5$. (English summary) **2004d:81135**
Russo, Rodolfo (*with* Sciuto, Stefano) Twisted determinants on higher genus Riemann surfaces. (English summary) **2004k:58050**
Ryang, Shijong String propagators in time-dependent and time-independent homogeneous plane waves. (English summary) **2004j:83133**
Ryzhov, Anton V. *see* **Kraus, Per et al., 2004e:81188**
Saa, Alberto *see* **Abramo, L. Raul et al., 2004d:83055**
Sabra, Wafic A. *see* **Liu, James T., 2004i:83130**
Sadri, Darius (*with* Sheikh-Jabbari, Mohammad M.) String theory on parallelizable pp-waves. (English summary) **2004f:83089**
Saffin, P. M. *see* **Brecher, Dominic et al., 2004b:83125**
Sahakian, Vatche Holography with Ramond-Ramond fluxes. (English summary) **2004a:83074**
Sahakyan, David A. *see* **Kreuzer, Maximilian et al., 2004h:14044**
Saidi, El Hassan *see* **Haddou, Malika Ait Ben, 2004i:81238** *and* **Bennai, Mohamed, 2004k:81392**
Sakagami, Masa-aki *see* **Kurita, Yasunari, 2004b:83134**
Sakai, Norisuke *see* **Eto, Minoru et al., 2004i:83138**
Sakai, Tadakatsu (*with* Sonnenschein, Jacob) Probing flavored mesons of confining gauge theories by supergravity. (English summary) **2004j:83134**
— *see also* **Oz, Yaron, 2004b:81190**
Samtleben, Henning *see* **Morales, José F., 2004b:83135**; **Bianchi, Massimo et al., 2004g:83113** *and* **Nicolai, Hermann, 2004i:83142**
Sanchez, Norma G. Advances in string theory in curved backgrounds: a synthesis report. (English summary) (*see* **2004m:83002**)
Sanjay *see* **Ohta, Nobuyoshi et al., 2004i:83133**
Santiago, José *see* **del Aguila, Francisco et al., 2004c:81317**
Santillan, O. P. A construction of G_2 holonomy spaces with torus symmetry. (English summary) **2004d:53057**
Sarkar, Tapobrata *see* **Govindarajan, Suresh et al., 2004g:81251**
Sati, Hisham *see* **Duff, Michael J. et al., 2004h:83080** *and* **Evslin, Jarah, 2004j:81162**
Satoh, Yuji (*with* Troost, Jan) Massless BTZ black holes in minisuperspace. (English summary) **2004a:83075**
— *see also* **Mizoguchi, Shun'ya et al., 2004d:83083**
Savonije, Ivo *see* **Parikh, Maulik K. et al., 2004j:83025**
Savvidy, G. K. *see* **Nichols, Alexander et al.**
Saxena, Ashish *see* **Lunin, Oleg et al., 2004i:83131**
van der Schaar, Jan Pieter *see* **Bergshoeff, Eric et al., 2004g:81285**; **2004g:81286** *and* **Freese, Katherine et al., 2004g:83095**
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Sethi, Savdeep *see* **Dasgupta, Keshav et al., 2004f:83082**
Sever, Amit *see* **Berkooz, Micha et al., 2004g:83112** *and* **Giveon, Amit et al., 2004k:81328**
Sezgin, E. *see* **Lü, Hong[1] et al., 2004f:83094**
Sfetsos, Konstadinos The exact description of NS5-branes in the Penrose limit. (English summary) **2004f:83090**
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Shifman, M. *see* **Armoni, Adi, 2004k:81354**
Shigemori, Masaki *see* **Kraus, Per et al., 2004e:81188**
Shimada, Hidehiko *see* **Dobashi, Suguru et al., 2004g:83115**
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Shomer, Assaf *see* **Berkooz, Micha et al., 2004g:83112**
Sieg, Christoph *see* **Dorn, Harald, 2004e:83099**
Siegel, Warren *see* **Lee, Kiyoung, 2004g:83122**; **Feng, Haidong, 2004m:81259** *and* **Hatsuda, Machiko, (2004j:81004)**
Silva, Pedro J. *see* **Gomis, Joaquim et al., 2004i:83124**
Silverstein, Eva *see* **Aharony, Ofer et al., 2004c:83112** *and* **Strominger, Andrew et al.**
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Singh, Harvendra Note on (D6, D8) bound state, massive duality and non-commutativity. (English summary) **2004k:81407**
Sinkovics, Annamaria *see* **de Haro, Sebastian et al., 2004d:83094**; **Dorey, Nick et al., 2004f:81214** *and* **2004f:81215**
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Skiba, Witold *see* **Constable, Neil R. et al., 2004b:81205**
Skinner, David Inflation and Kähler stabilization of the dilaton. (English summary)
Smith, Douglas J. *see* **Page, David C., 2004h:83089**
Snajdr, Martin *see* **Frolov, Valery P. et al.**
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Sochichiu, Corneliu Continuum limits of Berenstein-Maldacena-Nastase matrix theory: where is the (non-abelian) gauge group? (English summary) **2004j:81119**
— *see also* **Bellucci, Stefano, 2004h:83078**
Sokatchev, Emery *see* **Arutyunov, Gleb E. et al., 2004i:81227** *and* **2004i:81228**
Solodukhin, S. N. *see* **de Boer, Jan, 2004i:83118**
Sommovigo, Luca Penrose limit of $AdS_3 \times S^3 \times S^3 \times S^1$ and its associated σ-model. (English summary) **2004h:83092**
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Sonnenschein, Jacob *see* **Bakas, Ioannis, 2004c:83114**; **Gimon, Eric G. et al., 2004g:81159** *and* **Sakai, Tadakatsu, 2004j:83134**
Sorokin, D. P. *see* **Pasti, P. et al., 2004g:83125** *and* **Plyushchaĭ, M. S. et al., 2004g:83145**
Speliotopoulos, Achilles D. A topological string: the Rasetti-Regge Lagrangian, topological quantum field theory and vortices in quantum fluids. (English summary) **2004a:82106**
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Stanciu, Sonia (*with* Figueroa-O'Farrill, José) Penrose limits of Lie branes and a Nappi-Witten braneworld. (English summary) **2004m:83098**
Starinets, Andrei O. *see* **Policastro, Giuseppe et al., 2004b:81218**; **Núñez, Alvaro, 2004h:81240** *and* **Kovtun, Pavel et al., 2004j:83130**
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Stelle, Kellogg S. *see* **Cvetič, Mirjam et al., 2004e:83095** *and* **Lehners, Jean-Luc, 2004e:83105**
Stern, Allen *see* **Pinzul, A., 2004j:83132**
Stevenson, Daniel *see* **Murray, Michael K., 2004i:53027**
Stieberger, Stephan *see* **Blumenhagen, Ralph et al., 2004g:81312**
Stoica, Horace *see* **Jones, Nicholas T. et al., 2004b:83116**
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Sugiyama, Katsuyuki *see* **Nakayama, Noriko et al., 2004k:83151**
Sundell, P. *see* **Bergshoeff, Eric et al., 2004g:81285** *and* **2004g:81286**
Suryanarayana, Nemani V. *see* **Mukhi, Sunil, 2004a:81241**
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Suzuki, Kenji[1] *see* **Takahashi, Hidenori et al., 2004b:81236**
Swanson, Ian *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
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Tanaka, Takahiro *see* **Flachi, Antonino et al., 2004k:83144**
Tasinato, Gianmassimo *see* **Burgess, Clifford P. et al., 2004e:83093** *and* **2004h:83096**
Tatar, Radu *see* **Oh, Kyungho, 2004d:83085; 2004k:81379** *and* **Roiban, Radu et al., 2004j:81182**
Taylor, Marika *see* **Skenderis, Kostas, 2004d:83087**
Tchrakian, Tigran D. H. *see* **Brihaye, Yves et al., 2004g:83089**
Theisen, Stefan *see* **Klemm, Albrecht et al., 2004e:81187** *and* **Schwimmer, Adam, 2004k:81349**
Thomas, Richard Paul *see* **Hori, Kentaro et al., 2004g:14042**
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Toda, Kouichi *see* **Hamanaka, Masashi, 2004i:37165**
Toharia, Manuel The radion and the perturbative metric in RS1. (English summary)
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Tong, David *see* **Gukov, Sergei, 2004c:81270**
Tonin, M. *see* **Pasti, P. et al., 2004g:83125**
Toppan, Francesco On the octonionic superconformal M-algebra. (English summary) **2004h:81114**
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Torii, Takashi[1] *see* **Shiromizu, Tetsuya et al.**
Torrielli, Alessandro Unitarity of noncommutative field theories from string theory. (English summary) **2004k:81411**
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Travaglini, Gabriele *see* **Georgiou, George et al., 2004k:81363**
Trigiante, Mario *see* **D'Auria, Riccardo et al., 2004e:83096; de Roo, Mees et al., 2004k:83164; Angelantonj, Carlo et al., 2004m:83099** *and* **2004m:83100**
Trincherini, Enrico *see* **Casero, Roberto, 2004j:81170**
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— *see also* **Frolov, Sergei A., 2004g:83116**
Tsimpis, Dimitrios *see* **Papadopoulos, George, 2004f:53056; Gillard, Joe et al., 2004f:81206** *and* **Howe, Paul S., 2004i:83126**
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Tye, S.-H. Henry *see* **Jones, Nicholas T. et al., 2004b:83116; Shiu, Gary et al., 2004g:83130** *and* **Firouzjahi, Hassan, 2004k:83143**
Tze, Chia-Hsiung *see* **Minic, Djordje, 2004k:83048**
Ueno, Tatsuya *see* **Mansfield, Paul et al., 2004f:81207** *and* **2004m:81234**
Uhlmann, Sebastian *see* **Ihl, Matthias, 2004k:81399**
Umetsu, Hiroshi *see* **Hatsuda, Machiko et al., 2004i:81253**
Uranga, Angel M. Local intersecting brane worlds. (English summary) **2004g:83132**
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Vaidya, Sachindeo *see* **Gegenberg, Jack et al., 2004b:83129**
Vakil, Ravi *see* **Hori, Kentaro et al., 2004g:14042**
Van Proeyen, Antoine *see* **Gomis, Joaquim et al., 2004i:83124**
Varadarajan, Uday *see* **Boyda, Edward K. et al., 2004j:83078**
Vasil'ev, M. A. *see* **Konshtein, S. E. et al., 2004g:81246**
Vaulà, Silvia *see* **D'Auria, Riccardo et al., 2004b:83127; 2004e:83096** *and* **2004j:83139**
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Veneziano, Gabriele *see* **Gasperini, M., 2004b:83159**
Verlinde, Erik *see* **Hubeny, Veronika E. et al., 2004b:83130** *and* **Parikh, Maulik K. et al., 2004j:83025**
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Wadia, Spenta R. *see* **David, Justin R. et al., 2004c:83117**
Walcher, Johannes *see* **Roiban, Radu et al., 2004j:81182; Buchel, Alex et al., 2004m:83087** *and* **2004m:83088**
Walter, Martin *see* **Gmeiner, F. et al., 2004a:81215**
Walton, Mark A. (*with* Zhou, Jian-Ge) D-branes in asymmetrically gauged WZW models and axial-vector duality. (English summary) **2004c:81247**
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Watabiki, Yoshiyuki *see* **Ookouchi, Yutaka, 2004e:81193**
Watson, Gary Scott *see* **Brandenberger, Robert et al., 2004i:83149**
Wei, Yi Huan (*with* Zhang, Yuan Zhong; He, Feng) Static axisymmetric solutions with electric fields in low-energy string theory. (English summary) **2004d:83089**
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Westra, Dennis B. *see* **de Roo, Mees et al., 2004k:83164**
Wiltshire, David L. *see* **Visser, Matt, 2004g:83111**
Winters, David J. *see* **Kruczenski, Martín et al., 2004g:81264**
de Wit, Bernard Supergravity. **2004i:83144**
de Wit, Tim C. *see* **Bergshoeff, Eric et al., 2004d:83091**
Witten, Edward *see* **Yau, Shing Tung, 2004c:53059; Atiyah, Michael Francis, 2004f:53046; Diaconescu, Duiliu-Emanuel et al., 2004i:58062** *and* **Klebanov, Igor R., 2004k:81431**
Wohlfarth, Mattias N. R. *see* **Townsend, Paul Kingsley, 2004h:83077**
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Wurtz, Albrecht *see* **Bordalo, Pedro, 2004j:81152**
Wyllard, Niclas *see* **Schnitzer, Howard J., 2004d:83086; Naculich, Stephen G. et al., 2004f:81222** *and* **2004k:83150**
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Yamaguchi, Satoshi[2] Holographic RG flow on the defect and g-theorem. (English summary) **2004e:81097**
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Yee, Ki Hyuk *see* **Kim, Sung-Won et al., 2004g:83120**
Yi, Piljin *see* **Yee, Jung-Tay, 2004c:83135**
Yi, Sang-Heon *see* **Hyun, Seungjoon et al., 2004c:81271**
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Yoneya, Tamiaki String theory and gravitation—towards quantum geometry. (English summary) **2004k:83083**
— *see also* **Dobashi, Suguru et al., 2004g:83115**
Yoshida, Kentaroh *see* **Nakayama, Noriko et al., 2004k:83151**
Yoshioka, Koichi *see* **Hirayama, Takayuki, 2004m:81233**
Zabzine, Maxim *see* **Lindström, Ulf, 2004c:81246** *and* **2004f:81221**
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Zaikin, V. N. *see* **Konshteĭn, S. E. et al., 2004g:81246**
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Zamaklar, M. *see* **Bain, Pascal et al., 2004a:83078**
Zarembo, Konstantin *see* **Pestun, Vasily, 2004e:81194; Engquist, Johan et al., 2004k:81361** *and* **Beisert, Niklas et al., 2004m:81237**
Zaslow, Eric *see* **Hori, Kentaro et al., 2004g:14042**
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Zhang, Yuan Zhong *see* **Wei, Yi Huan et al., 2004d:83089**
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81T40 Two-dimensional field theories, conformal field theories, etc.

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Belavin, A. A. (*with* Belavin, V. A.; Litvinov, A. V.; Pugai, Yaroslav; Zamolodchikov, Aleksandr B.) On correlation functions in the perturbed minimal models $\mathcal{M}_{2,2n+1}$. (English summary) **2004k:81325**
Belavin, V. A. *see* **Belavin, A. A. et al.**, **2004k:81325**
Bernard, Denis *see* **Bauer, Michel**, **2004h:81216**
Birmingham, Danny (*with* Sachs, Ivo; Solodukhin, S. N.) Relaxation in conformal field theory, Hawking-Page transition, and quasinormal or normal modes. (English summary) **2004i:81214**
de Boer, Jan (*with* Halpern, Martin B.; Helfgott, Craig) Twisted Einstein tensors and orbifold geometry. (English summary) **2004h:81217**
Bordalo, Pedro (*with* Wurtz, Albrecht) D-branes in lens spaces. (English summary) **2004j:81152**
Bouwknegt, Peter (*with* Dawson, Peter; Ridout, David) D-branes on group manifolds and fusion rings. (English summary) **2004j:81153**
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Caldeira, Alexandre F. (*with* Kawai, Shinsuke; Wheater, John F.) Free boson formulation of boundary states in W_3 minimal models and the critical Potts model. (English summary) **2004j:81154**
Cardy, John Calogero-Sutherland model and bulk-boundary correlations in conformal field theory. (English summary) **2004m:81223**
Cho, Chui (*with* Mercat, Christian; Pearce, Paul A.) Integrable and conformal twisted boundary conditions for sl(2) A-D-E lattice models. (English summary) **2004k:81326**
Conlon, Joseph P. (*with* Gepner, Doron) Field identifications for interacting bosonic models in $N=2$ superconformal field theory. (English summary) **2004e:81162**
Controzzi, Davide (*with* Schoutens, Kareljan) On the quasiparticle description of $c=1$ CFTs. (English summary)
Craps, Ben (*with* Gaberdiel, Matthias R.; Harvey, Jeffrey A.) Monstrous branes. (English summary) **2004i:81215**
Dawson, Peter *see* **Ardonne, Eddy et al.**, **2004g:81239** *and* **Bouwknegt, Peter et al.**, **2004j:81153**
Dolan, F. A. (*with* Osborn, Hugh) Conformal partial waves and the operator product expansion. (English summary) **2004j:81155**
Dotsenko, Vladimir S. (*with* Nguyen, Xuan Son; Santachiara, Raoul) Coupled models $WD_3^{(P)}$: their fixed points. (English summary) (*see* **2004e:82003**)
— (*with* Jacobsen, Jesper Lykke; Santachiara, Raoul) Parafermionic theory with the symmetry Z_5. (English summary) **2004k:81327**
— (*with* Jacobsen, Jesper Lykke; Santachiara, Raoul) Conformal field theories with Z_N and Lie algebra symmetries. (English summary) **2004m:81224**
Doyon, Benjamin (*with* Lukyanov, Sergei L.) Fermion Schwinger's function for the SU(2)-Thirring model. (English summary) **2004b:81188**
Dulat, Sayipjamal The $N=2$ superconformal $\mathbb{Z}_3$ orbifold-prime model with $c=3$. (English summary) **2004a:81209**
Dunning, Clare *see* **Bajnok, Zoltan et al.**, **2004k:81324**
Dzhordzhadze, G. P. (*with* Weigt, G.) Quantisation of gauged $SL(2,\mathbb{R})$ WZNW theories. (English summary) **2004g:81242**
Eggert, Sebastian Impurities in one dimension. (English summary) (*see* **2004e:82003**)
Eguchi, Tohru (*with* Sugawara, Yuji; Yamaguchi, Satoshi[2]) Supercoset CFT's for string theories on non-compact special holonomy manifolds. (English summary)
Fateev, Vladimir A. Reflection amplitudes and expectation values of fields in integrable boundary theories. (English summary) (*see* **2004e:82003**)
Feverati, Giovanni (*with* Pearce, Paul A.; Ravanini, Francesco) Exact $\varphi_{1,3}$ boundary flows in the tricritical Ising model. (English summary) **2004m:81225**
— Exact $(d)\mapsto(+)\&(-)$ boundary flow in the tricritical Ising model. (English summary) **2004m:81226**
Flohr, M. A. I. *see* **Krohn, Marco**, **2004c:81245**
Förste, Stefan D-branes in a marginally deformed WZW model. (English summary)
Fotopoulos, Angelo Semiclassical description of D-branes in the SL(2)/U(1) gauged WZW model. (English summary)
Fredenhagen, Stefan Organizing boundary RG flows. (English summary) **2004h:81218**
— (*with* Schomerus, Volker) Boundary renormalization group flows in coset conformal field theories. (English summary) **2004e:81163**
Fuchs, Jürgen (*with* Runkel, Ingo; Schweigert, Christoph) Conformal boundary conditions and 3D topological field theory. (English summary) (*see* **2004e:82003**)
— (*with* Runkel, Ingo; Schweigert, Christoph) TFT construction of RCFT correlators. I. Partition functions. (English summary) **2004c:81244**
— (*with* Runkel, Ingo; Schweigert, Christoph) Boundaries, defects and Frobenius algebras. (English summary)
— (*with* Runkel, Ingo; Schweigert, Christoph) Boundaries, defects and Frobenius algebras. (English summary) **2004i:81216**
Gaberdiel, Matthias R. (*with* Gannon, Terry) The charges of a twisted brane. (English summary) **2004m:81227**
— *see also* **Craps, Ben et al.**, **2004i:81215**
Gannon, Terry Comments on nonunitary conformal field theories. (English summary) **2004g:81243**
— *see also* **Gaberdiel, Matthias R.**, **2004m:81227**
Ganor, Ori J. (*with* Halpern, Martin B.; Helfgott, Craig; Obers, Niels A.) The outer-automorphic WZW orbifolds on $\mathfrak{so}(2n)$, including five triality orbifolds on $\mathfrak{so}(8)$. (English summary) **2004f:81199**
Gărăjeu, Daniela (*with* Gărăjeu, Mihail) Mathematica™ packages for computing principal decompositions of simple Lie algebras and applications in extended conformal field theories. (English summary) **2004g:81244**
Gărăjeu, Mihail *see* **Gărăjeu, Daniela**, **2004g:81244**
Gepner, Doron *see* **Conlon, Joseph P.**, **2004e:81162**
Geronimo, Jeffrey S. (*with* Navelet, Henri) On certain integrals that appear in conformal field theory. (English summary) **2004g:81245**
Giveon, Amit (*with* Konechny, Anatoly: Pakman, Ari; Sever, Amit) Type 0 strings in a 2-d black hole. (English summary) **2004k:81328**
Gubser, Steven S. (*with* Klebanov, Igor R.) A universal result on central charges in the presence of double-trace deformations. (English summary) **2004f:81200**
Gutperle, Michael (*with* Strominger, Andrew) Timelike boundary Liouville theory. (English summary) **2004i:81217**
Halpern, Martin B. (*with* Helfgott, Craig) Extended $c$perator algebra and reducibility in the WZW permutation orbifolds. (English summary) **2004b:81189**
— *see also* **Ganor, Ori J. et al.**, **2004f:81199** *and* **de Boer, Jan et al.**, **2004h:81217**
Hannabuss, K. C. (*with* Semplice, M.) Boundary conformal fields and Tomita-Takesaki theory. (English summary) **2004j:81156**
Harvey, Jeffrey A. *see* **Craps, Ben et al.**, **2004i:81215**
Heinen, Andreas *see* **Baacke, Jürgen**
Helfgott, Craig *see* **Halpern, Martin B.**, **2004b:81189**; **Ganor, Ori J. et al.**, **2004f:81199** *and* **de Boer, Jan et al.**, **2004h:81217**
Higashijima, Kiyoshi (*with* Itou, Etsuko) A new class of conformal field theories with anomalous dimensions. (English summary) **2004e:81164**
Hikida, Yasuaki Orientifolds of SU(2)/U(1) WZW models. (English summary) **2004e:81165**
— Liouville field theory on an unoriented surface. (English summary) **2004e:81166**
Hortaçsu, M. Explicit examples of conformal invariance. (English summary) **2004f:81201**
Huang, Yi-Zhi Differential equations and conformal field theories. (English summary) (*see* **2004j:00020**)
Intriligator, Ken (*with* Wecht, Brian) The exact superconformal R-symmetry maximizes a. (English summary) **2004k:81329**
Ishikawa, Hiroshi[2] (*with* Yamaguchi, Atsushi) Twisted boundary states in $c=1$ coset conformal field theories. (English summary) **2004j:81157**
— (*with* Tani, Taro) Twisted boundary states in Kazama-Suzuki models. (English summary) **2004m:81228**
Ishimoto, Yukitaka Boundary states in boundary LCFT: an algebraic approach. (English summary) **2004k:81330**
Itou, Etsuko *see* **Higashijima, Kiyoshi**, **2004e:81164**
Jacobsen, Jesper Lykke *see* **Dotsenko, Vladimir S. et al.**, **2004k:81327** *and* **2004m:81224**
Kawai, Shinsuke Logarithmic conformal field theory with boundary. (English summary) **2004j:81158**
— Free-field realization of boundary states and boundary correlation functions of minimal models. (English summary) **2004h:81219**
— *see also* **Caldeira, Alexandre F. et al.**, **2004j:81154**
Klebanov, Igor R. *see* **Gubser, Steven S.**, **2004f:81200**
Klimčík, Ctirad Quasitriangular chiral WZW model in a nutshell. (English summary) **2004j:81159**
— Yang-Baxter σ-models and dS/AdS T-duality. (English summary) **2004f:81202**
Klusoň, Josef Remark about dS/CFT correspondence. (English summary) **2004k:81331**
Kogan, Ian I. (*with* Nichols, Alexander) Stress energy tensor in LCFT and logarithmic Sugawara construction. (English summary) **2004k:81332**
Konechny, Anatoly *see* **Giveon, Amit et al.**, **2004k:81328**
Konshteĭn, S. E. (*with* Vasil′ev, M. A.; Zaikin, V. N.) Conformal higher spin currents in any dimension and AdS/CFT correspondence. (English summary) **2004g:81246**
Krohn, Marco (*with* Flohr, M. A. I.) Ghost systems revisited: modified Virasoro generators and logarithmic conformal field theories. (English summary) **2004c:81245**
Leonhardt, Thorsten (*with* Manvelyan, Ruben; Rühl, Werner) The group approach to AdS space propagators. (English summary) **2004i:81218**
Lesage, F. (*with* Mathieu, Pierre[1]; Rasmussen, Jørgen; Saleur, Hubert) The $\widehat{\mathfrak{su}}(2)_{-1/2}$ WZW model and the $\beta\gamma$ system. (English summary) **2004a:81210**
Lindström, Ulf (*with* Zabzine, Maxim) D-branes in $N=2$ WZW models. (English summary) **2004c:81246**
— *see also* **Albertsson, Cecilia et al.**, **2004e:81161**
Litvinov, A. V. *see* **Belavin, A. A. et al.**, **2004k:81325**
Ludwig, Andreas W. W. (*with* Wiese, Kay Jörg) The 4-loop β-function in the 2D non-abelian Thirring model, and comparison with its conjectured "exact" form. (English summary) **2004f:81203**

Lukyanov, Sergei L. *see* **Doyon, Benjamin**, **2004b:81188** *and* **Bazhanov, V. V. et al.**, **2004m:81222**
Manvelyan, Ruben *see* **Leonhardt, Thorsten et al.**, **2004i:81218**
Mathieu, Pierre[1] *see* **Lesage, F. et al.**, **2004a:81210**
Mavromatos, Nikolaos E. (*with* Szabo, Richard J.) The Neveu-Schwarz and Ramond algebras of logarithmic superconformal field theory. (English summary) **2004k:81333**
Mercat, Christian *see* **Cho, Chui et al.**, **2004k:81326**
Michelson, Jeremy Anti-de Sitter fragmentation. (English summary) (*see* **2004d:81111**)
Miemiec, André CFT/CFT interpolating RG flows and the holographic c-function. (English summary) **2004g:81247**
Mimachi, Katsuhisa (*with* Yoshida, Masaaki) Intersection numbers of twisted cycles and the correlation functions of the conformal field theory. (English summary) **2004e:81167**
Moghimi-Araghi, S. (*with* Rouhani, S.; Saadat, Mehdi) Use of nilpotent weights in logarithmic conformal field theories. (English summary) **2004k:81334**
Mohammedi, N. Classical integrability of two-dimensional non-linear sigma models. (English summary) **2004a:81211**
Naka, Michihiro A realization of $N = 1$ $\mathscr{W}(3/2, 2)$ algebras with Wolf spaces. (English summary) **2004a:81212**
Navelet, Henri *see* **Geronimo, Jeffrey S.**, **2004g:81245**
Nguyen, Xuan Son *see* **Dotsenko, Vladimir S. et al.**, (**2004e:82003**)
Nichols, Alexander The $SU(2)_0$ WZNW model. (English summary) **2004k:81336**
— Extended multiplet structure in logarithmic conformal field theories. (English summary) **2004k:81335**
— *see also* **Kogan, Ian I.**, **2004k:81332**
Nikolov, Nikolai Marinov (*with* Stanev, Yassen S.; Todorov, Ivan T.) Rational conformal field theory in four dimensions. (English summary) (*see* **2004e:82003**)
— (*with* Stanev, Yassen S.; Todorov, Ivan T.) Globally conformal invariant gauge field theory with rational correlation functions. (English summary)
Obers, Niels A. *see* **Ganor, Ori J. et al.**, **2004f:81199**
Osborn, Hugh *see* **Dolan, F. A.**, **2004j:81155**
Oz, Yaron (*with* Sakai, Tadakatsu) Exact anomalous dimensions for $\mathcal{N} = 2$ ADE SCFTs. (English summary) **2004b:81190**
Pakman, Ari *see* **Giveon, Amit et al.**, **2004k:81328**
Palchik, M. Ya. (*with* Zaikin, V. N.) Secondary fields in $D \geq 3$ conformal theories: the existence conditions for D-dimensional generalization of two dimensional models in quantum field theory. (English summary) **2004g:81248**
Palla, Laszlo *see* **Bajnok, Zoltan et al.**, **2004k:81324**
Pearce, Paul A. *see* **Cho, Chui et al.**, **2004k:81326** *and* **Feverati, Giovanni et al.**, **2004m:81225**
Petkova, Valentina B. (*with* Zuber, Jean-Bernard) Verlinde NIM-reps for charge conjugate sl(N) WZW theory. (English summary) (*see* **2004e:82003**)
Pugai, Yaroslav On vertex operators and the normalization of form factors. (English summary) (*see* **2004e:82003**)
— *see also* **Belavin, A. A. et al.**, **2004k:81325**
Quella, Thomas (*with* Schomerus, Volker) Symmetry breaking boundary states and defect lines. (English summary) **2004a:81213**
— (*with* Schomerus, Volker) Asymmetrically gauged WZNW models. (English summary)
— (*with* Schomerus, Volker) Asymmetric cosets. (English summary) **2004k:81337**
Rahimi Tabar, M. Reza Disordered systems and logarithmic conformal field theory. (English summary) **2004k:81338**
Rahmfeld, J. Superspace: bulk vs. boundary. (English summary) **2004h:81220**
Rasmussen, Jørgen *see* **Lesage, F. et al.**, **2004a:81210**
Ravanini, Francesco *see* **Feverati, Giovanni et al.**, **2004m:81225**
Recknagel, Andreas On permutation branes. (English summary)
— Permutation branes. (English summary) **2004d:81113**
Ridout, David *see* **Bouwknegt, Peter et al.**, **2004j:81153**
Rouhani, S. *see* **Moghimi-Araghi, S. et al.**, **2004k:81334**
Rühl, Werner *see* **Leonhardt, Thorsten et al.**, **2004i:81218**
Runkel, Ingo *see* **Fuchs, Jürgen et al.**, **2004c:81244**; **2004i:81216** *and* (**2004e:82003**)
Saadat, Mehdi *see* **Moghimi-Araghi, S. et al.**, **2004k:81334**
Sachs, Ivo *see* **Birmingham, Danny et al.**, **2004i:81214**
Sakai, Tadakatsu *see* **Oz, Yaron**, **2004b:81190**
Saleur, Hubert *see* **Lesage, F. et al.**, **2004a:81210**
Sanjay Logarithmic operators in $SL(2, \mathbb{R})$ WZNW model, singletons and $AdS_3/(L)CFT_2$ correspondence. (English summary) **2004b:81191**
Santachiara, Raoul *see* **Dotsenko, Vladimir S. et al.**, **2004k:81327**; **2004m:81224** *and* (**2004e:82003**)
Schomerus, Volker *see* **Quella, Thomas**, **2004a:81213**; **2004k:81337** *and* **Fredenhagen, Stefan**, **2004e:81163**
Schoutens, Kareljan *see* **Controzzi, Davide**
Schweigert, Christoph *see* **Fuchs, Jürgen et al.**, **2004c:81244**; **2004i:81216** *and* (**2004e:82003**)
Semplice, M. *see* **Hannabuss, K. C.**, **2004j:81156**
Sethi, Savdeep *see* **Basu, Anirban**
Sever, Amit *see* **Giveon, Amit et al.**, **2004k:81328**
Shi, Kang-Jie *see* **Yang, Zhan-Ying et al.**
Solodukhin, S. N. *see* **Birmingham, Danny et al.**, **2004i:81214**
Stanev, Yassen S. *see* **Nikolov, Nikolai Marinov et al.**, (**2004e:82003**)
Strominger, Andrew *see* **Gutperle, Michael**, **2004i:81217**
Sugawara, Yuji *see* **Eguchi, Tohru et al.**
Szabo, Richard J. *see* **Mavromatos, Nikolaos E.**, **2004k:81333**
Takács, Gabor *see* **Bajnok, Zoltan et al.**, **2004k:81324**
Tani, Taro *see* **Ishikawa, Hiroshi**[2], **2004m:81228**
Todorov, Ivan T. *see* **Nikolov, Nikolai Marinov et al.**, (**2004e:82003**)
Tsvelik, Alexei M. Lectures on conformal field theory. (English summary) (*see* **2004d:81002**)
Vasil'ev, M. A. Relativity, causality, locality, quantization and duality in the Sp($2M$) invariant generalized space-time. (English summary) **2004e:81168**
— *see also* **Konshteĭn, S. E. et al.**, **2004g:81246**
Wágner, Ferenc *see* **Bajnok, Zoltan et al.**, **2004k:81324**
Walton, Mark A. (*with* Zhou, Jian-Ge) D-branes in asymmetrically gauged WZW models and axial-vector duality. (English summary) **2004c:81247**
Wecht, Brian *see* **Intriligator, Ken**, **2004k:81329**
Weigt, G. *see* **Dzhordzhadze, G. P.**, **2004g:81242**
Wendland, Katrin Orbifold constructions of $K3$: a link between conformal field theory and geometry. (English summary) **2004c:81248**
Wheater, John F. *see* **Caldeira, Alexandre F. et al.**, **2004j:81154**
Wiese, Kay Jörg *see* **Ludwig, Andreas W. W.**, **2004f:81203**
Wurtz, Albrecht *see* **Bordalo, Pedro**, **2004j:81152**
Yamaguchi, Atsushi *see* **Ishikawa, Hiroshi**[2], **2004j:81157**
Yamaguchi, Satoshi[2] *see* **Eguchi, Tohru et al.**
Yamaguchi, Shun-ichi Logarithmic correlation functions in Liouville field theory. (English summary) **2004b:81192**
Yang, Zhan-Ying (*with* Zhao, Liu; Shi, Kang-Jie) Boson-fermion duality in A_2 Toda field theory. (English summary)
Yoshida, Masaaki *see* **Mimachi, Katsuhisa**, **2004e:81167**
Zabzine, Maxim *see* **Lindström, Ulf**, **2004c:81246** *and* **Albertsson, Cecilia et al.**, **2004e:81161**
Zaikin, V. N. *see* **Konshteĭn, S. E. et al.**, **2004g:81246** *and* **Palchik, M. Ya.**, **2004g:81248**
Zamolodchikov, Aleksandr B. *see* **Belavin, A. A. et al.**, **2004k:81325** *and* **Bazhanov, V. V. et al.**, **2004m:81222**
Zamolodchikov, Alekseĭ B. Perturbed conformal field theory on a sphere. (English summary) (*see* **2004e:82003**)
Zhao, Liu *see* **Yang, Zhan-Ying et al.**
Zhao, Wenhua Some generalizations of genus zero two-dimensional conformal field theory. (English summary) **2004d:81114**
Zhou, Jian-Ge *see* **Walton, Mark A.**, **2004c:81247**
Zuber, Jean-Bernard *see* **Petkova, Valentina B.**, (**2004e:82003**)

Items with secondary classifications in 81T40

Abe, Toshiyuki (*with* Nagatomo, Kiyokazu) Finiteness of conformal blocks over the projective line. (English summary) **2004m:81102**
Abreu, Everton M. C. (*with* de Souza Dutra, A.; Wotzasek, C.) New approaches in $\mathscr{W}$ gravities. (English summary) **2004a:81110**
Agashe, K. (*with* Delgado, Antonio) Conformal field theory dual of the RS model with gauge fields in the bulk. (English summary) **2004c:83090**
Aharony, Ofer (*with* DeWolfe, Oliver; Freedman, Daniel Z.; Karch, Andreas) Defect conformal field theory and locally localized gravity. (English summary) **2004i:83097**
Alonso Izquierdo, A. (*with* González León, M. A.; Mateos Guilarte, Juan) Invariants in supersymmetric classical mechanics. (English summary) **2004c:70038**
Altaie, M. B. *see* **Setare, Mohammad R.**, **2004i:83077**
Álvarez, Enrique (*with* Conde, Jorge; Hernández, Lorenzo) Rudiments of holography. (English summary) **2004g:81174**
Anselmi, Damiano Consistent irrelevant deformations of interacting conformal field theories. (English summary) **2004j:81110**
Ardelean, Gheorghe (*with* Cotăescu, Ion I.) Quantum particles inside Gaussian bags in $(1 + 1)$ general relativity. (English summary) **2004h:83063**
Ardonne, Eddy *see* **Schoutens, Kareljan et al.**, (**2004e:82003**)
Azakov, S. The general correlation function in the Schwinger model on a torus. (English summary) **2004d:81062**
Babington, James (*with* Crooks, David E.; Evans, Nick) A non-supersymmetric deformation of the AdS/CFT correspondence. (English summary) **2004d:83090**
Bajnok, Zoltan (*with* Palla, Laszlo; Takács, Gabor) The spectrum of boundary sine-Gordon theory. (English summary) (*see* **2004e:82003**)
Balasubramanian, Vijay (*with* de Boer, Jan; Minic, Djordje) Notes on de Sitter space and holography. (English summary) **2004e:81109**
Bantay, Peter On generalizations of Verlinde's formula. (English summary) **2004h:81221**
Barron, Katrina The notion of $N = 1$ supergeometric vertex operator superalgebra and the isomorphism theorem. (English summary) **2004j:17034**
Baseilhac, Pascal (*with* Stanishkov, M.) On the third level descendent fields in the Bullough-Dodd model and its reductions. (English summary)
Bégin, L. (*with* Fortin, J.-F.; Jacob, Patrick; Mathieu, Pierre[1]) Fermionic characters for graded parafermions. (English summary) **2004b:81059**
Behrend, Roger E. (*with* Evans, David E.) Integrable lattice models for conjugate $A_n^{(1)}$. (English summary) **2004m:82027**
Belhaj, Adil *see* **Haddou, Malika Ait Ben et al.**, **2004k:81365**
Berenstein, David (*with* Herzog, Christopher P.; Klebanov, Igor R.) Baryon spectra and AdS/CFT correspondence. (English summary) **2004c:81189**
Berg, Marcus (*with* Samtleben, Henning) Holographic correlators in a flow to a fixed point. (English summary) **2004m:81159**
Berkooz, Micha (*with* Sever, Amit; Shomer, Assaf) "Double-trace" deformations, boundary conditions and spacetime singularities. (English summary) **2004g:83112**
(Berman, Stephen) *see* **Vertex operator algebras in mathematics and physics**, **2004g:00021**
(Billig, Yu. V.) *see* **Vertex operator algebras in mathematics and physics**, **2004g:00021**
Biswas, Anindya (*with* Mukherji, Sudipta) On the Hawking-Page transition and the Cardy-Verlinde formula. (English summary) **2004m:83048**
de Boer, Jan *see* **Balasubramanian, Vijay et al.**, **2004e:81109**
Boyarskiĭ, A. M. (*with* Ruchayskiy, Oleg) Integrability in SFT and new representation of dispersionless KP tau-function. (English summary) **2004c:81111**
Brevik, Iver Viscous cosmology and the Cardy-Verlinde formula. (English summary) **2004k:83062**
Brink, Lars Euler multiplets, light-cone supersymmetry and superconformal algebras. **2004h:81113**
Cadoni, Mariano Entropy of the 3-brane and the AdS/CFT duality from a two-dimensional perspective. (English summary) **2004i:83120**
Caldarelli, Marco M. (*with* Silva, Pedro J.) Multi giant graviton systems, SUSY breaking and CFT. (English summary) **2004k:81256**
Cardy, John The stress tensor in quenched random systems. (English summary) (*see* **2004e:82003**)
— Stochastic Loewner evolution and Dyson's circular ensembles. (English summary) **2004k:82092a**

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Carpi, Sebastiano (*with* Conti, Roberto[2]) Classification of subsystems, local symmetry generators and intrinsic definition of local observables. (English summary) **2004a:81149**

— The Virasoro algebra and sectors with infinite statistical dimension. (English summary) **2004k:81209**

Caselle, Michele (*with* Hasenbusch, Martin; Pelissetto, Andrea; Vicari, Ettore) Irrelevant operators in the two-dimensional Ising model. (English summary) **2004c:82020**

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Castro-Alvaredo, Olalla (*with* Fring, Andreas) Scaling functions from q-deformed Virasoro characters. (English summary) **2004b:81122**

Chekhov, L. O. (*with* Fock, V. V.) Observables in 3D gravity and geodesic algebras. (English summary) **2004g:83070**

Conde, Jorge *see* **Álvarez, Enrique et al., 2004g:81174**

Constable, Neil R. (*with* Erdmenger, Johanna; Guralnik, Zachary; Kirsch, Ingo) Intersecting branes, defect conformal theories and tensionless strings. (English summary) **2004g:81189**

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Ketov, Sergei V. Holographic duality, supersymmetry, and Painlevé equation. (English summary) **2004g:81213**
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Sen, Ashoke *see* **Rastelli, Leonardo et al., 2004h:81202**
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Sever, Amit *see* **Berkooz, Micha et al., 2004g:83112**; **Giveon, Amit et al., 2004h:81193** *and* **2004k:83087**
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Shatashvili, S. L. Exceptional magic. **2004m:53089**
Shomer, Assaf *see* **Berkooz, Micha et al., 2004g:83112**
Siegel, Warren *see* **Feng, Haidong, 2004m:81259**
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Silva, Pedro J. *see* **Caldarelli, Marco M., 2004k:81256**
Sin, Sang-Jin *see* **Lee, Sunggeun, 2004m:81200**
Singer, Michael A.[1] *see* **Mason, Lionel J. et al., 2004b:37146**
Siopsis, George Thermodynamics of conformal field theories and cosmology. (English summary) **2004c:83163**
de Souza Dutra, A. *see* **Abreu, Everton M. C. et al., 2004a:81110**
Spradlin, Marcus (*with* Strominger, Andrew; Volovich, Anastasia) de Sitter space. (English summary) **2004k:83023**
Stanishkov, M. *see* **Baseilhac, Pascal**
Strominger, Andrew *see* **Gomis, Jaume et al., 2004e:83101**; **Spradlin, Marcus et al., 2004k:83023** *and* **Maloney, Alexander et al., 2004m:81204**
Sugawara, Yuji *see* **Eguchi, Tohru et al., 2004e:81123**
Suzuki, Hiroshi *see* **Fujiwara, Takanori et al., 2004j:81117**
Tagami, Makoto Nonexistence of modular fusion algebras whose kernels are certain noncongruence subgroups. (English summary) **2004h:11036**
Takács, Gabor *see* **Bajnok, Zoltan et al., (2004e:82003)**
Takeyama, Yoshihiro Form factors of $SU(N)$ invariant Thirring model. (English summary) **2004d:81044**
Tateo, Roberto *see* **Dorey, Patrick et al., (2004e:82003)**
Terras, Véronique *see* **Lukyanov, Sergei L., 2004b:82014**
Teschner, J. Quantum Liouville theory versus quantized Teichmüller spaces. (English summary) **2004i:32026**
Theisen, Stefan *see* **Kuzenko, Sergei M. et al., 2004d:81128**; **Pankiewicz, Ari, 2004h:81201** *and* **Schwimmer, Adam, 2004k:81349**
Tipunin, I. Yu. *see* **Feigin, B. L. et al., 2004g:81086**
Todorov, Ivan T. *see* **Furlan, P. et al., 2004j:81087**
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— *see also* **Hanany, Amihay, 2004k:81278**
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Tyurin, Andreĭ Nikolaevich ★ Quantization, classical and quantum field theory and theta functions. **2004i:53129**
Unterberger, Jérémie *see* **Henkel, Malte, 2004g:81078**
Vagenas, Elias C. *see* **Setare, Mohammad R., 2004j:83073**
Verlinde, Erik CFT & FRW. **2004c:81242**
Vicari, Ettore *see* **Caselle, Michele et al., 2004c:82020**
Volovich, Anastasia *see* **Spradlin, Marcus et al., 2004k:83023**
Walton, Mark A. (*with* Zhou, Jian-Ge) pp-wave Green-Schwarz superstring, polygon divergent structure, and conformal field theory. (English summary) **2004k:81323**
Woodhouse, N. M. J. *see* **Mason, Lionel J. et al., 2004b:37146**
Wotzasek, C. *see* **Abreu, Everton M. C. et al., 2004a:81110**
Yamaguchi, Satoshi[2] Holographic RG flow on the defect and g-theorem. (English summary) **2004e:81097**
— *see also* **Eguchi, Tohru et al., 2004e:81123**
Yamamoto, Masaru *see* **Fujiwara, Takanori et al., 2004j:81117**
Yee, Ki Hyuk *see* **Kim, Sung-Won et al., 2004g:83120**
Yin, Xi *see* **Maloney, Alexander et al., 2004m:81204**
Yin, Zheng[1] From boundaries to conditions over superspace. (English summary) **2004d:81136**
Zabzine, Maxim *see* **Lindström, Ulf, 2004f:81221**
Zaffaroni, Alberto[1] *see* **Girardello, L. et al., 2004e:81130**
Zel′nikov, A. I. *see* **Frolov, Valery P. et al., 2004b:83063**
Zhang, Yao-Zhong *see* **Ding, Xiang-Mao et al., 2004i:81097** *and* **2004k:81160**
Zhou, Jian-Ge *see* **Walton, Mark A., 2004k:81323**
Zwiebach, Barton *see* **Rastelli, Leonardo et al., 2004h:81202**

Items listed otherwise than by author

Memorial Issue:
O'Raifeartaigh, Lochlainn ★ Proceedings of the School and Workshop on Logarithmic Conformal Field Theory and its Applications.
Proceedings:
School and Workshop on Logarithmic Conformal Field Theory and its Applications ★ Proceedings of the School and Workshop on Logarithmic Conformal Field Theory and its Applications.
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Toronto, ON ★ Vertex operator algebras in mathematics and physics. **2004g:00021**
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81T45 Topological field theories [see also 57R56, 58Dxx]

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Bantay, Peter On generalizations of Verlinde's formula. (English summary) **2004h:81221**
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— Going down from a 3-form in 16 dimensions. (English summary) **2004e:81169**
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— (*with* Bellon, Marc; Tanzini, Alessandro) Supergravity and the knitting of the Kalb-Ramond two-form in eight-dimensional topological gravity. (English summary) **2004g:81249**
Bellon, Marc *see* **Baulieu, Laurent et al., 2004g:81249**
Bojowald, Martin (*with* Strobl, Thomas) Classical solutions for Poisson sigma models on a Riemann surface. (English summary) **2004i:81220**
Boldo, J. L. (*with* Constantinidis, C. P.; Piguet, Olivier; Gieres, F.; Lefrançois, M.) Topological Yang-Mills theories and their observables: a superspace approach. (English summary)
Borowiec, Andrzej (*with* Ferraris, Marco; Francaviglia, Mauro) A covariant formalism for Chern-Simons gravity. (English summary) **2004i:81221**
Buffenoir, E. (*with* Noui, K.; Roche, Ph.) Hamiltonian quantization of Chern-Simons theory with $SL(2,\mathbb{C})$ group. (English summary) **2004c:81249**
Calvo, Iván (*with* Falceto, Fernando; García-Álvarez, David) Topological Poisson sigma models on Poisson-Lie groups. (English summary) **2004k:81339**
Cantcheff, M. Botta (*with* Helayël-Neto, José A.) Bosonization and duality in arbitrary dimensions: new results. (English summary) **2004d:81116**
Carbone, G. (*with* Carfora, Mauro; Marzuoli, Annalisa) Spin models, TQFTs and their hierarchical structure. (English summary) **2004k:81340**
Carfora, Mauro *see* **Carbone, G. et al., 2004k:81340**
Catterall, Simon Lattice supersymmetry and topological field theory. (English summary) **2004e:81170**
Constantinidis, C. P. *see* **Boldo, J. L. et al.**
Duan, Yi-Shi (*with* Liu, Xin[5]; Fu, Li-Bin) Many knots in Chern-Simons field theory. (English summary) **2004g:81250**
Falceto, Fernando *see* **Calvo, Iván et al., 2004k:81339**
Ferraris, Marco *see* **Borowiec, Andrzej et al., 2004i:81221**
Figueroa-O'Farrill, José *see* **de Medeiros, P. F. et al., 2004h:81222**
Francaviglia, Mauro *see* **Borowiec, Andrzej et al., 2004i:81221**
Freedman, Michael H. A magnetic model with a possible Chern-Simons phase. (English summary) **2004b:81193**
Fu, Li-Bin *see* **Duan, Yi-Shi et al., 2004g:81250**
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Geyer, Bodo (*with* Mülsch, Dietmar) Higher-dimensional analogue of the Blau-Thompson model and $N_T = 8$, $D = 2$ Hodge-type cohomological gauge theories. (English summary) **2004k:81341**
Gianvittorio, R. (*with* Restuccia, A.) Symplectic structure and time reversal operation for TQFT. (English and Spanish summaries)
Gieres, F. (*with* Grimstrup, J. M.; Nieder, Harald; Pisar, T.; Schweda, Manfred) Topological field theories and their symmetries within the Batalin-Vilkovisky framework. (English summary) **2004b:81194**
— *see also* **Boldo, J. L. et al.**
(Goodman, Frederick M.) *see* **Freedman, Michael H., 2004b:81193**
Govindarajan, Suresh (*with* Jayaraman, T.; Sarkar, Tapobrata) Disc instantons in linear sigma models. (English summary) **2004g:81251**
Grassi, Antonella (*with* Rossi, Michele) Large N dualities and transitions in geometry. **2004b:81195**
Grimstrup, J. M. *see* **Gieres, F. et al., 2004b:81194**
Guralnik, Zachary (*with* Kulik, Bogdan) Properties of chiral Wilson loops. (English summary) **2004k:81342**
Helayël-Neto, José A. *see* **Cantcheff, M. Botta, 2004d:81116**
Hull, Christopher M. *see* **de Medeiros, P. F. et al., 2004h:81222**
Ikeda, Noriaki[2] Topological field theories and geometry of Batalin-Vilkovisky algebras. (English summary) **2004c:81250**
Jayaraman, T. *see* **Govindarajan, Suresh et al., 2004g:81251**
Kulik, Bogdan *see* **Guralnik, Zachary, 2004k:81342**
Laroche, Céline *see* **Baulieu, Laurent et al., (2004d:81111)**
Lazaroiu, Calin I. An analytic torsion for graded D-branes. (English summary) **2004c:81251**
Leal, Lorenzo Link invariants from classical Chern-Simons theory. (English summary) **2004c:81252**
Lefrançois, M. *see* **Boldo, J. L. et al.**
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Malik, R. P. Abelian 2-form gauge theory: special features. (English summary) **2004i:81222**
Marzuoli, Annalisa *see* **Carbone, G. et al., 2004k:81340**
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Mostafazadeh, Ali *see* **Samani, Keivan Aghababaei, 2004a:81214**
Mülsch, Dietmar *see* **Geyer, Bodo, 2004k:81341**
Nekrasov, Nikita A. *see* **Baulieu, Laurent et al., (2004d:81111)**
Nieder, Harald *see* **Gieres, F. et al., 2004b:81194**
Noui, K. *see* **Buffenoir, E. et al., 2004c:81249**
Piguet, Olivier *see* **Boldo, J. L. et al.**
Pisar, T. *see* **Gieres, F. et al., 2004b:81194**
Restuccia, A. *see* **Gianvittorio, R.**
Roche, Ph. *see* **Buffenoir, E. et al., 2004c:81249**
Rossi, Michele *see* **Grassi, Antonella, 2004b:81195**
Samani, Keivan Aghababaei (*with* Mostafazadeh, Ali) Topological generalizations of supersymmetry. (English summary) **2004a:81214**
Sarkar, Tapobrata *see* **Govindarajan, Suresh et al., 2004g:81251**
Schweda, Manfred *see* **Gieres, F. et al., 2004b:81194**
Spence, Bill *see* **de Medeiros, P. F. et al., 2004h:81222** *and* **2004i:81223**
Strobl, Thomas *see* **Bojowald, Martin, 2004i:81220**
Tanzini, Alessandro *see* **Baulieu, Laurent et al., 2004g:81249**
(Wenzl, Hans) *see* **Freedman, Michael H., 2004b:81193**
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Iqbal, Amer (*with* Kashani-Poor, Amir-Kian) Instanton counting and Chern-Simons theory. (English summary) **2004m:81154**
Jackiw, Roman W. *see* **Guralnik, G. et al., 2004h:83064**
Kajiura, Hiroshige Kronecker foliation, D1-branes and Morita equivalence of noncommutative two-tori. (English summary) **2004k:81189**
— Homotopy algebra morphism and geometry of classical string field theories. (English summary) **2004b:81170**
Kanno, Hiroaki *see* **Eguchi, Tohru, 2004m:81188**
Kashani-Poor, Amir-Kian *see* **Iqbal, Amer, 2004m:81154**
Kerler, Thomas p-modular TQFT's, Milnor torsion and the Casson-Lescop invariant. (English summary) **2004h:57035**
Kori, Tosiaki Four-dimensional Wess-Zumino-Witten actions. (English summary) **2004j:58044**
Kummer, Wolfgang *see* **Grumiller, Daniel, 2004j:83080**
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Miković, A. Quantum gravity vacuum and invariants of embedded spin networks. (English summary) **2004e:83020**
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Ol'shanetskiĭ, M. A. Lie algebroids as gauge symmetries in topological field theories. (English summary) **2004c:53137**
Pi, So-Young *see* **Guralnik, G. et al., 2004h:83064**
Roche, Ph. *see* **Noui, K., 2004f:83026**
Runkel, Ingo *see* **Fuchs, Jürgen et al., 2004c:81244; 2004i:81216** *and* **(2004e:82003)**
Samtleben, Henning *see* **de Wit, Bernard et al., 2004i:81246**
Sandström, Niclas *see* **Edgren, Ludde, 2004m:81258**
Schweigert, Christoph *see* **Fuchs, Jürgen et al., 2004c:81244; 2004i:81216** *and* **(2004e:82003)**
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81T50 Anomalies

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Asorey, Manuel (*with* Gorbar, Eduard V.; Shapiro, Ilya L.) Universality and ambiguities of the conformal anomaly. (English summary) **2004j:81161**
Banerjee, Rabin Anomalies in noncommutative gauge theories, Seiberg-Witten transformation and Ramond-Ramond couplings. (English summary) **2004k:81344**
Bilal, Adel (*with* Metzger, Steffen) Anomaly cancellation in M-theory: a critical review. (English summary) **2004m:81230**
Buchmüller, W. *see* **Asaka, Takehiko et al., 2004c:81253**
Chaichian, Masud (*with* Chen, Wen-Feng) The holographic supercurrent anomaly. (English summary) **2004m:81231**
Chang, Lay Nam (*with* Soo, Chopin) Massive torsion modes, chiral gravity and the Adler-Bell-Jackiw anomaly. (English summary) **2004d:81117**
Chen, Wen-Feng *see* **Chaichian, Masud, 2004m:81231**
Cirafici, Michele *see* **Alday, Luis Fernando et al., 2004f:81204; 2004j:81160** *and* **2004m:81229**
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Covi, L. *see* **Asaka, Takehiko et al., 2004c:81253**
David, Justin R. (*with* Gava, Edi; Narain, Kumar S.) Konishi anomaly approach to gravitational F-terms. (English summary) **2004k:81345**
— *see also* **Alday, Luis Fernando et al., 2004m:81229**
Delbourgo, Robert Self-consistent nonperturbative anomalous dimensions. (English summary) **2004k:81346**
Dotti, Gustavo Discrete anomalies and the null cone of SYM theories. (English summary)
Evslin, Jarah (*with* Sati, Hisham) SUSY vs E_8 gauge theory in 11 dimensions. (English summary) **2004j:81162**
Fabbrichesi, M. (*with* Percacci, R.; Piai, M.; Serone, M.) Cancellation of global anomalies in spontaneously broken gauge theories. (English summary) **2004b:81196**
Freyhult, Lisa (*with* Niemi, Antti J.) Chirality and fermion number in a knotted soliton background. (English summary) **2004f:81205**
Fujikawa, Kazuo (*with* van Nieuwenhuizen, Peter) Topological anomalies from the path integral measure in superspace. (English summary) **2004i:81224**
— (*with* Rebhan, Anton; van Nieuwenhuizen, Peter) On the nature of the anomalies in the supersymmetric kink. (English summary) **2004j:81163**
Gaillard, Mary K. (*with* Giedt, Joel) More modular invariant anomalous U(1) breaking. (English summary) **2004m:81232**
Gava, Edi *see* **David, Justin R. et al., 2004k:81345** *and* **Alday, Luis Fernando et al., 2004m:81229**
Giedt, Joel D-moduli stabilization. (English summary) (*see* **2004d:81001**)
— (*with* Poppitz, Erich; Rozali, Moshe) Deconstruction, lattice supersymmetry, anomalies and branes. (English summary) **2004b:81197**
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Gillard, Joe (*with* Papadopoulos, George; Tsimpis, Dimitrios) Anomaly, fluxes and (2, 0) heterotic-string compactifications. (English summary) **2004f:81206**
Gmeiner, F. (*with* Groot Nibbelink, Stefan; Nilles, Hans Peter; Olechowski, Marek; Walter, Martin) Localized anomalies in heterotic orbifolds. (English summary) **2004a:81215**
Gorbar, Eduard V. *see* **Asorey, Manuel et al., 2004j:81161**
Gorskiĭ, A. S. Konishi anomaly and $N = 1$ effective superpotentials from the matrix models. (English summary) **2004c:81254**
Groot Nibbelink, Stefan (*with* Nilles, Hans Peter) Localization and anomalies on orbifolds. (English summary) (*see* **2004d:81001**)
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— *see also* **Gmeiner, F. et al., 2004a:81215**
Gustavsson, Andreas On the Weyl anomaly of Wilson surfaces. (English summary) **2004k:81347**
Hirayama, Takayuki (*with* Yoshioka, Koichi) Anomalies and Fayet-Iliopoulos terms on warped orbifolds and large hierarchies. (English summary) **2004m:81233**
Inagaki, Teruaki (*with* Kikukawa, Yoshio; Suzuki, Hiroshi) Axial anomaly in the reduced model: higher representations. (English summary) **2004d:81118**
Iso, Satoshi (*with* Nagao, Keiichi) Chiral anomaly and Ginsparg-Wilson relation on the noncommutative torus. (English summary) **2004e:81171**
Jackiw, Roman W. John Bell's observations on the chiral anomaly and some properties of its descendants. (*see* **2004f:81046**)
Kikukawa, Yoshio *see* **Inagaki, Teruaki et al., 2004d:81118**
Klinkhamer, Frans R. (*with* Schimmel, J.) CPT anomaly: a rigorous result in four dimensions. (English summary) **2004b:81198**

Klose, Thomas (*with* Marculescu, Sorin) Computation of the chiral anomaly in the bulk quantization. (English summary) **2004d:81119**
Kubota, Takahiro *see* **Nishihara, Koske**
Lechner, K. (*with* Marchetti, P. A.) Chern-kernels and anomaly cancellation in M-theory. (English summary) **2004j:81164**
Lee, Hyun Min Anomalies on orbifolds with gauge symmetry breaking. (English summary) **2004j:81165**
Mansfield, Paul (*with* Nolland, David; Ueno, Tatsuya) Order $1/N^3$ corrections to the conformal anomaly of the $(2,0)$ theory in six dimensions. (English summary) **2004f:81207**
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Marachevsky, Valeri N. (*with* Vasilevich, D. V.) Chiral anomaly for local boundary conditions. (English summary) **2004k:81348**
Marchetti, P. A. *see* **Lechner, K., 2004j:81164**
Marculescu, Sorin *see* **Klose, Thomas, 2004d:81119**
Metzger, Steffen *see* **Bilal, Adel, 2004m:81230**
Moss, Ian G. Zeta functions, anomalies and stable branes.
Nagao, Keiichi *see* **Iso, Satoshi, 2004e:81171**
Nakajima, Tadahito Nonplanar anomalies in noncommutative gauge theories with adjoint matter fields. (English summary)
Narain, Kumar S. *see* **David, Justin R. et al., 2004k:81345** *and* **Alday, Luis Fernando et al., 2004m:81229**
Niemi, Antti J. *see* **Freyhult, Lisa, 2004f:81205**
van Nieuwenhuizen, Peter *see* **Fujikawa, Kazuo et al., 2004i:81224** *and* **2004j:81163**
Nilles, Hans Peter *see* **Gmeiner, F. et al., 2004a:81215** *and* **Groot Nibbelink, Stefan, (2004d:81001)**
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Martín, Carmelo P. *see* **Brandt, Friedemann et al., 2004k:81394**
Matsui, Kosuke *see* **Fujiwara, Takanori et al., 2004j:81117**
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Shaposhnikov, Mikhail *see* **Randjbar-Daemi, Seif, 2004d:81157**
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81T60 Supersymmetric field theories

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Corley, Steven (*with* Lowe, David A.) Probing the enhancon via calculations in supersymmetric gauge theory. (English summary) **2004g:81260**
Corrado, Richard A. *see* **Ashok, Sujay K. et al.**, **2004f:81210**
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Csáki, Csaba (*with* Erlich, Joshua; Terning, John) Seiberg-Witten description of the deconstructed 6D (0, 2) theory. (English summary) **2004b:81206**
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Demasure, Yves (*with* Janik, Romuald A.) Explicit factorization of Seiberg-Witten curves with matter from random matrix models. (English summary) **2004h:81230**
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Diniz, Sortelano Araujo (*with* Piguet, Olivier) Induced mass in $N=2$ super Yang-Mills theories. (English summary) **2004b:81209**
Di Vecchia, Paolo (*with* Lerda, Alberto; Merlatti, Paolo) $\mathcal{N}=1$ and $\mathcal{N}=2$ super-Yang-Mills theories from wrapped branes. (English summary) **2004b:81208**
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Doran, Charles F. (*with* Faux, Michael; Ovrut, Burt A.) Four-dimensional $N=1$ super Yang-Mills theory from an M-theory orbifold. (English summary) **2004b:81210**
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— (*with* Sinkovics, Annamaria) $\mathcal{N}=1^*$ vacua, fuzzy spheres and integrable systems. (English summary) **2004a:81222**
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Drummond, James M. (*with* Heslop, Paul J.; Howe, Paul S.; Kerstan, Sven F.) Integral invariants in $N=4$ SYM and the effective action for coincident D-branes. (English summary) **2004i:81232**
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Ennes, Isabel P. (*with* Lozano, Carlos; Naculich, Stephen G.; Rhedin, Henric; Schnitzer, Howard J.) M-theory tested by $\mathcal{N}=2$ Seiberg-Witten theory. (English summary) **2004c:81264**
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Erlich, Joshua (*with* Naqvi, Asad) Nonperturbative tests of the parent/orbifold correspondence in supersymmetric gauge theories. (English summary) **2004a:81223**
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Esposito, F. Paul *see* **Argyres, Philip C. et al.**, **2004g:81255**
Evlampiev, K. (*with* Yung, A. V.) Flux tubes on Higgs branches in SUSY gauge theories. (English summary) **2004m:81243**
Evslin, Jarah *see* **Auzzi, Roberto et al.**, **2004i:81229**
Falkowski, Adam (*with* Nilles, Hans Peter; Olechowski, Marek; Pokorski, Stefan) Deconstructing 5d supersymmetric U(1) gauge theories on orbifolds. (English summary) **2004e:81179**
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Faux, Michael *see* **Doran, Charles F. et al.**, **2004b:81210**
Fendley, Paul (*with* Schoutens, Kareljan; de Boer, Jan) Lattice models with $\mathcal{N}=2$ supersymmetry. (English summary) **2004c:81266**
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— Note on Seiberg duality in matrix model. (English summary) **2004i:81235**
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Ferrari, A. F. (*with* Girotti, H. O.; Gomes, Marcelo O. C.; Petrov, A. Yu.; Ribeiro, Anderson André Genro; da Silva, A. J.) On the finiteness of noncommutative supersymmetric QED$_3$ in the covariant superfield formulation. (English summary)
Ferrari, Frank Quantum parameter space in super Yang-Mills. II. (English summary) **2004c:81268**
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Ferretti, Gabriele *see* **Argurio, Riccardo et al.**, **2004h:81226** *and* **2004k:81353**
Figueroa-O'Farrill, José (*with* Simón, Joan) Corrigendum: "Supersymmetric Kaluza-Klein reductions of M-waves and MKK-monopoles" [Classical Quantum Gravity **19** (2002), no. 23, 6147–6174].
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Fishman, Ram *see* **Aharony, Ofer et al.**, **2004c:81255**
Floratos, Emmanuel *see* **Axenides, Minos et al.**, **2004d:81121**
Flume, R. (*with* Poghossian, Rubik H.) An algorithm for the microscopic evaluation of the coefficients of the Seiberg-Witten prepotential. (English summary) **2004e:81180**
Franco, Sebastián (*with* Hanany, Amihay) Toric duality, Seiberg duality and Picard-Lefschetz transformations. (English summary) **2004h:81233**
— (*with* Hanany, Amihay) Geometric dualities in 4d field theories and their 5d interpretation. (English summary) **2004h:81232**
Freedman, Daniel Z. *see* **Constable, Neil R. et al.**, **2004b:81205**
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Fuji, Hiroyuki (*with* Ookouchi, Yutaka) Confining phase superpotentials for SO/Sp gauge theories via geometric transition. (English summary) **2004d:81124**
Georgi, Howard *see* **Chang, Spencer**, **2004i:81231** *and* **Hailu, Girma**, **2004k:81366**
Georgiou, George (*with* Khoze, Valentin V.; Travaglini, Gabriele) New tests of the pp-wave correspondence. (English summary) **2004k:81363**
Gervais, Jean-Loup Exact integration methods for supersymmetric Yang-Mills theory. (English summary) **2004a:81225**
Gheerardyn, Jos (*with* Janssen, Bert) Probes in fluxbranes and supersymmetry breaking through Hodge-duality. (English summary) **2004a:81226**
Ghilencea, D. M. Wilson lines corrections to gauge couplings from a field theory approach. (English summary)
Girotti, H. O. *see* **Ferrari, A. F. et al.**
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Gomes, Marcelo O. C. *see* **Ferrari, A. F. et al.**
Gómez-Reino, Marta Prepotential and instanton corrections in $\mathcal{N}=2$ supersymmetric SU(N_1) $\times$ SU(N_2) Yang Mills theories. (English summary) **2004c:81269**
Gomis, Jaume (*with* Moriyama, Sanefumi; Park, Jongwon) SYM description of SFT Hamiltonian in a pp-wave background. (English summary) **2004b:81212**
Gomis, Joaquim *see* **Brugués, Jan et al.**, **2004g:81258**
González León, M. A. *see* **Alonso Izquierdo, A. et al.**, **2004c:81256**
Gopakumar, Rajesh $\mathcal{N}=1$ theories and a geometric master field. (English summary) **2004h:81234**
Gorskĭ, A. S. Condensates near the Argyres-Douglas point in SU(2) gauge theory with broken $\mathcal{N}=2$ supersymmetry. (English summary) **2004h:81235**
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Grassi, Pietro A. (*with* Hurth, Tobias; Quadri, Andrea) Super background field method for $N=2$ SYM. (English summary) **2004i:81237**
Grena, Roberto *see* **Auzzi, Roberto et al.**, **2004b:81202**
Grigore, Dan Radu (*with* Scharf, Günter) A supersymmetric extension of quantum gauge theory. (English summary) **2004d:81125**
Groot Nibbelink, Stefan *see* **Nyawelo, T. S. et al.**, **2004d:81132**
Gross, David J. (*with* Mikhailov, Andrei; Roiban, Radu) A calculation of the plane wave string Hamiltonian from $\mathcal{N}=4$ super-Yang-Mills theory. (English summary) **2004j:81174**
Gudmundsson, Skuli (*with* Thorn, Charles B.; Tran, Tuan A.) BT worldsheet for supersymmetric gauge theories. (English summary) **2004e:81182**
Gukov, Sergei (*with* Tong, David) D-brane probes of special holonomy manifolds, and dynamics of $\mathcal{N}=1$ three-dimensional gauge theories. (English summary) **2004c:81270**
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Haba, Naoyuki (*with* Maru, Nobuhito) Fat branes, orbifolds and doublet-triplet splitting. (English summary)

Hadasz, Leszek *see* **Bzdak, Adam, 2004m:81239**

Haddou, Malika Ait Ben (*with* Belhaj, Adil; Saidi, El Hassan) Geometric engineering of $\mathcal{N}=2$ CFT_4 based on indefinite singularities: hyperbolic case. (English summary) **2004k:81365**

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Hahn, Sang-Ok *see* **Cho, Jin-Ho et al.**

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— (*with* Georgi, Howard) On exact superpotentials, free energies and matrix models. (English summary) **2004k:81366**

Halmagyi, Nick *see* **Ashok, Sujay K. et al., 2004f:81210**

Hanany, Amihay *see* **Franco, Sebastián, 2004h:81232** *and* **2004h:81233**

de Haro, Sebastian *see* **Bena, Iosif et al., 2004f:81211**

He, Yang Hui *see* **Feng, Bo[1], 2004i:81234**

Headrick, Matthew *see* **Constable, Neil R. et al., 2004b:81205**

Heise, Rainer *see* **Argurio, Riccardo et al., 2004h:81226** *and* **2004k:81353**

Helayël-Neto, José A. *see* **Carvalho, Marcelo Ferreira Lima et al., 2004j:81169** *and* **Góes-Negrão, M. S. et al.**

Herger, Ivan *see* **de Wit, Bernard et al., 2004i:81246**

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— New results from glueball superpotentials and matrix models: the Leigh-Strassler deformation. (English summary) **2004i:81239**

— Critical points of glueball superpotentials and equilibria of integrable systems. (English summary) **2004m:81247**

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van Holten, J. W. *see* **Nyawelo, T. S. et al., 2004d:81132**

Hori, Kentaro Mirror symmetry and some applications. (English summary) **2004m:81248**

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— *see also* **Heslop, Paul J., 2004b:81213**; **2004m:81246**; **D'Hoker, Eric et al., 2004e:81176** *and* **Drummond, James M. et al., 2004i:81232**

Hu, Sen *see* **Wang, Xiao-Jun, 2004g:81272**

Huang, Min-xin *see* **Balasubramanian, Vijay et al., 2004a:81218**

Hurth, Tobias *see* **Grassi, Pietro A. et al., 2004i:81237**

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Ibáñez, Luis E. *see* **Cremades, Daniel et al., 2004a:81221**

Imaanpur, Ali On instantons and zero modes of $\mathcal{N}=1/2$ SYM theory. (English summary)

— Comments on gluino condensates in $\mathcal{N}=1/2$ SYM theory. (English summary) **2004k:81368**

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Jack, Ian (*with* Jones, D. R. T.) Yukawa textures and anomaly mediated supersymmetry breaking. (English summary) **2004d:81126**

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Jones, D. R. T. *see* **Jack, Ian, 2004d:81126**

Julia, Bernard *see* **Bandos, Igor A., 2004g:81256**

Kanno, Hiroaki *see* **Itoyama, Hiroshi, 2004j:81176**

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Kawai, Hikaru (*with* Kuroki, Tsunehide; Morita, Takeshi) Dijkgraaf-Vafa theory as large-N reduction. (English summary) **2004m:81250**

Kazama, Yoichi (*with* Muramatsu, Tatsuya) Power of supersymmetry in D-particle dynamics. (English summary) **2004f:81219**

Kehagias, Alex *see* **Axenides, Minos et al., 2004d:81121**

Kennaway, Kristian D. *see* **Ashok, Sujay K. et al., 2004f:81210**

Kerstan, Sven F. *see* **Drummond, James M. et al., 2004i:81232**

Khoze, Valentin V. *see* **Davies, N. Michael et al., 2004k:81359** *and* **Georgiou, George et al., 2004k:81363**

Kim, Hyung Do *see* **Choi, Kiwoon et al., 2004c:81262**

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Kingaby, Tom *see* **Hollowood, Timothy J., 2004e:81185**

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Klemm, Albrecht (*with* Mariño, Marcos; Theisen, Stefan) Gravitational corrections in supersymmetric gauge theory and matrix models. (English summary) **2004e:81187**

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Kokorelis, Christos Exact standard model compactifications from intersecting branes. (English summary) **2004c:81274**

Kol, Barak *see* **Aharony, Ofer et al., 2004k:81350**

Konishi, Kenichi *see* **Bolognesi, Stefano, 2004a:81219**; **Auzzi, Roberto et al., 2004b:81202** *and* **2004i:81229**

Konishi, Yukiko (*with* Naka, Michihiro) Geometric engineering of Seiberg-Witten theories with massive hypermultiplets. (English summary) **2004k:81375**

Kotikov, A. V. (*with* Lipatov, L. N.; Velizhanin, V. N.) Anomalous dimensions of Wilson operators in $N=4$ SYM theory. (English summary) **2004f:81220**

Kratzert, Kai Finite-temperature supersymmetry: the Wess-Zumino model. (English summary) **2004i:81242**

Kraus, Elisabeth (*with* Rupp, Christian W.; Sibold, Klaus) Supersymmetric Yang-Mills theories with local coupling: the supersymmetric gauge. (English summary) **2004d:81127**

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Krivonos, S. O. *see* **Bellucci, Stefano et al., 2004c:81260** *and* **Ivanov, Evgeniĭ Alekseevich[2] et al., 2004k:81371**

Kruczenski, Martin A note on twist two operators in $N=4$ SYM and Wilson loops in Minkowski signature. (English summary) **2004a:81228**

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Kumar, Alok[2] *see* **Chandrasekhar, Bhamidipati, 2004m:81240**

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Langmann, Edwin NC geometry and quantum fields: simple examples. (*see* **2004k:58045**)

Lechtenfeld, Olaf *see* **Ivanov, Evgeniĭ Alekseevich[2] et al., 2004k:81370** *and* **2004m:81249**

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Levi, Thomas S. *see* **Balasubramanian, Vijay et al., 2004a:81218**

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— Supersymmetry, a biased review. (English summary) **2004g:81265**
— Generalized $\mathcal{N} = (2, 2)$ supersymmetric non-linear sigma models. (English summary)
— *see also* **Albertsson, Cecilia et al., 2004g:81253**
Lipatov, L. N. *see* **Kotikov, A. V. et al., 2004f:81220**
Litvintsev, Andrei *see* **Goldhaber, Alfred Scharff et al., 2004j:81173**
Losev, Andrei S. (*with* Shifman, M.; Vaĭnshteĭn, A. I.) Single state supermultiplet in $1 + 1$ dimensions. (English summary) **2004a:81229**
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Louis, Jan *see* **Cerdeño, D. G. et al.**
Lowe, David A. *see* **Corley, Steven, 2004g:81260**
Lozano, Carlos *see* **Ennes, Isabel P. et al., 2004c:81264** *and* **2004c:81265**
Machin, W. (*with* Papadopoulos, George) Supersymmetric gauge theories, vortices and equivariant cohomology. (English summary) **2004g:81266**
Maimon, Ron *see* **Argyres, Philip C. et al., 2004a:81216**
Makeenko, Yu. M. Light-cone Wilson loops and the string/gauge correspondence. (English summary) **2004e:81190**
Månsson, Teresia Another Leigh-Strassler deformation through the matrix model. (English summary) **2004d:81129**
Marchesano, Fernando *see* **Cremades, Daniel et al., 2004a:81221**
Mariño, Marcos *see* **Klemm, Albrecht et al., 2004e:81187**
Marshakov, Andrei *see* **Chekhov, L. O. et al., 2004k:81358**
Martínez, Roberto *see* **Diaz, Rodolfo A. et al., 2004d:81123**
Martini, R. *see* **Hoevenaars, L. K., 2004e:81184**
Maru, Nobuhito *see* **Haba, Naoyuki**
Mateos, David *see* **Kruczenski, Martín et al., 2004g:81264**
Mateos, Toni *see* **Brugués, Jan et al., 2004g:81258**
Mateos Guilarte, Juan *see* **Alonso Izquierdo, A. et al., 2004c:81256**
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— The affine connection of supersymmetric $\mathrm{SO}(N)/\mathrm{Sp}(N)$. (English summary) **2004m:81253**
— Seiberg-Witten duality in Dijkgraaf-Vafa theory. (English summary) **2004e:81191**
Mazzucato, Luca *see* **Matone, Marco, 2004g:81267** *and* **2004j:81178**
McArthur, Ian N. *see* **Kuzenko, Sergei M. et al., 2004d:81128; 2004e:81189** *and* **2004m:81251**
McKeon, D. G. C. (*with* Sherry, T. N.) AdS_2 models in an embedding superspace. (English summary) **2004j:81179**
Merlatti, Paolo $\mathcal{N} = 1$ super Yang-Mills theories and wrapped branes. (English summary) **2004h:81238**
— *see also* **Di Vecchia, Paolo et al., 2004b:81208** *and* **Bertolini, Matteo, 2004f:81213**
Mesref, L. *see* **Hoffmann, Laurent et al., 2004h:81236**
Metsaev, R. R. Supersymmetric D3 brane and $\mathcal{N} = 4$ SYM actions in plane wave backgrounds. (English summary) **2004d:81130**
Meziane, Ahmed *see* **Leonhardt, Thorsten et al., 2004c:81276; 2004h:81237** *and* **Hoffmann, Laurent et al., 2004h:81236**
Mikhailov, Andrei *see* **Gross, David J. et al., 2004j:81174**
Minahan, Joseph A. (*with* Zarembo, Konstantin) The Bethe-ansatz for $\mathcal{N} = 4$ super Yang-Mills. (English summary) **2004d:81131**
— *see also* **Engquist, Johan et al., 2004k:81361** *and* **Beisert, Niklas et al., 2004m:81237**
Minwalla, Shiraz *see* **Constable, Neil R. et al., 2004b:81205**
Mira Martínez, Jesús María *see* **Diaz, Rodolfo A. et al., 2004d:81123**
Mironov, A. D. *see* **Chekhov, L. O. et al., 2004k:81358**
Mkrtchyan, Ruben Brane content of branes' states. (English summary) **2004c:81277**
Morita, Takeshi *see* **Kawai, Hikaru et al., 2004m:81250**
Moriyama, Sanefumi *see* **Gomis, Jaume et al., 2004b:81212**
Morozov, A. Yu. *see* **Itoyama, Hiroshi, 2004f:81217** *and* **2004j:81175**
Mosaffa, Amir E. *see* **Alishahiha, Mohsen et al., 2004f:81208** *and* **2004k:81352**
Motl, Luboš *see* **Constable, Neil R. et al., 2004b:81205**
Moura, Filipe Four dimensional supersymmetrization of $\mathbf{R}^4$. (English summary) (*see* **2004m:83003**)
Mück, Wolfgang Perturbative and non-perturbative aspects of pure $\mathcal{N} = 1$ super Yang-Mills theory from wrapped branes. (English summary) **2004c:81278**
Muramatsu, Tatsuya *see* **Kazama, Yoichi, 2004f:81219**
Myers, Robert C. *see* **Kruczenski, Martín et al., 2004g:81264**
Naculich, Stephen G. (*with* Schnitzer, Howard J.; Wyllard, Niclas) Matrix model approach to the $\mathcal{N} = 2$ $\mathrm{U}(N)$ gauge theory with matter in the fundamental representation. (English summary) **2004f:81222**
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— *see also* **Ennes, Isabel P. et al., 2004c:81264** *and* **2004c:81265**
Naganuma, Masashi *see* **Arai, Masato et al., (2004j:81004)**
Naka, Michihiro *see* **Konishi, Yukiko, 2004k:81375**
Nakayama, Yu Effective gauge degrees of freedom and the (non)existence of the glueball superpotential. (English summary) **2004h:81239**
Nam, Soonkeon *see* **Ahn, Changhyun, 2004e:81172** *and* **2004g:81252**
Naqvi, Asad *see* **Balasubramanian, Vijay et al., 2004a:81218** *and* **Erlich, Joshua, 2004a:81223**
Nath, Pran (*with* Syed, Raza M.) Coupling the supersymmetric 210 vector multiplet to matter in SO(10). (English summary) **2004j:81180**
Negrão, M. R. *see* **Góes-Negrão, M. S. et al.**
Nekrasov, Nikita A. Seiberg-Witten prepotential from instanton counting. (English summary) **2004f:81223**
Nevens, Stijn *see* **Koerber, Paul et al., 2004k:81374**
Niarchos, Vasilis (*with* Prezas, Nikolaos) BMN operators for $\mathcal{N} = 1$ superconformal Yang-Mills theories and associated string backgrounds. (English summary) **2004f:81224**
Nieder, Harald *see* **Ita, Harald et al., 2004b:81215; 2004k:81369** *and* **Brandhuber, Andreas et al., 2004i:81230**
Niederle, Jiří *see* **Ivanov, Evgeniĭ Alekseevich² et al., 2004k:81371** *and* **Arai, Masato et al., 2004m:81236**
van Nieuwenhuizen, Peter *see* **Goldhaber, Alfred Scharff et al., 2004j:81173** *and* **Rebhan, Anton et al., 2004j:81181**
Nilles, Hans Peter *see* **Falkowski, Adam et al., 2004e:81179** *and* **Lee, Hyun Min et al., 2004j:81177**
Nilsson, Bengt E. W. *see* **Cederwall, Martin et al., 2004a:81220**
Nishimura, Madoka A note on supersymmetry in noncommutative field theories. (English summary) **2004g:81268**
Nitta, Muneto *see* **Arai, Masato et al., (2004j:81004)**
Núñez, Alvaro (*with* Starinets, Andrei O.) AdS/CFT correspondence, quasinormal modes, and thermal correlators in $\mathcal{N} = 4$ supersymmetric Yang-Mills theory. (English summary) **2004h:81240**
Núñez, Carlos (*with* Paredes, Ángel; Ramallo, Alfonso V.) Flavoring the gravity dual of $\mathcal{N} = 1$ Yang-Mills with probes. (English summary) **2004k:81378**
Nyawelo, T. S. (*with* Riccioni, F.; van Holten, J. W.; Groot Nibbelink, Stefan) Singular supersymmetric σ-models. (English summary) **2004d:81132**
— Supersymmetric hydrodynamics. (English summary) **2004m:81254**
Obers, Niels A. *see* **Janik, Romuald A., 2004f:81218**
Oda, Ichiro Covariant matrix model of superparticle in the pure spinor formalism. (English summary) **2004e:81192**
Oh, Kyungho (*with* Tatar, Radu) Duality and confinement in $\mathcal{N} = 1$ supersymmetric theories from geometric transitions. (English summary) **2004k:81379**
Oh, Phillial *see* **Cho, Jin-Ho et al.**
Ohta, Kazutoshi Exact mesonic vacua from Matrix models. (English summary) **2004d:81133**
Olechowski, Marek *see* **Falkowski, Adam et al., 2004e:81179**
Onishchenko, Andrei I. (*with* Velizhanin, V. N.) Nonforward anomalous dimensions of Wilson operators in $\mathcal{N} = 4$ supersymmetric Yang-Mills theory. (English summary) **2004k:81380**
Onizawa, S. (*with* Yamada, Mitsuru) Supersymmetry transformation in the supersymmetric non-abelian gauge theory. (English summary)
— Quasisupersymmetric solitons of coupled scalar fields in two dimensions. (English summary) **2004i:81243**
Ookouchi, Yutaka (*with* Watabiki, Yoshiyuki) Effective superpotentials for SO/Sp with flavor from matrix models. (English summary) **2004e:81193**
— *see also* **Fuji, Hiroyuki, 2004d:81124** *and* **Ahn, Changhyun, 2004k:81351**
Osborn, Hugh *see* **Dolan, F. A., 2004g:81261** *and* **Arutyunov, Gleb E. et al., 2004i:81228**
Ovrut, Burt A. *see* **Doran, Charles F. et al., 2004b:81210**
Oz, Yaron *see* **Ita, Harald et al., 2004b:81215; 2004k:81369** *and* **Brandhuber, Andreas et al., 2004i:81230**
Pando Zayas, Leopoldo A. *see* **Buchel, Alex, 2004j:81168**
Papadopoulos, George *see* **Machin, W., 2004g:81266**
Paredes, Ángel *see* **Núñez, Carlos et al., 2004k:81378**
Park, Cheonsoo *see* **Cho, Jin-Ho et al.**
Park, Jeong-Hyuck *see* **Hyun, Seungjoon et al., 2004c:81271** *and* **Cho, Jin-Ho et al.**
Park, Jongwon *see* **Gomis, Jaume et al., 2004b:81212**
Parnachev, Andrei *see* **Kutasov, David et al., 2004k:81376**
Parvizi, Shahrokh *see* **Abbaspur, Reza et al., 2004i:81225**
Peeters, K. (*with* Vanhove, Pierre; Westerberg, Anders) Supersymmetric R^4 actions and quantum corrections to superspace torsion constraints. (English summary) **2004g:81269**
Pelland, Sophie *see* **Argyres, Philip C. et al., 2004a:81216**
Penati, Silvia *see* **Arutyunov, Gleb E. et al., 2004h:81227**
Pestun, Vasily $\mathcal{N} = 4$ super Yang-Mills matrix integrals for almost all simple gauge groups. (English summary) **2004c:81280**
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Petkou, Anastasios C. An operator product expansion analysis of $\mathcal{N} = 4$ SYM_4 at weak and strong coupling. (English summary) **2004g:81270**
— Boundary multi-trace deformations and OPEs in AdS/CFT correspondence. (English summary) **2004d:81134**
Petrov, A. Yu. *see* **Bukhbinder, I. L. et al., 2004b:81204** *and* **Ferrari, A. F. et al.**
Phong, D. H. *see* **D'Hoker, Eric, 2004d:81122**
Pickles, Mike (*with* Urrestilla, Jon) Nielsen-Olesen strings in supersymmetric models. (English summary) **2004b:81216**
Piguet, Olivier *see* **Diniz, Sortelano Araujo, 2004b:81209**
Pinsky, Stephen The spectrum of SYM_{2+1}. (English summary) **2004f:81225**
— Discrete light-cone quantization on a twisted torus. (English summary) **2004b:81217**
Plefka, Jan Christoph *see* **Kristjansen, C. et al., 2004a:81227; Beisert, Niklas et al., 2004c:81259** *and* **Kim, Nakwoo et al., 2004i:81240**
Pletnev, N. G. *see* **Banin, A. T. et al., 2004j:81166**
Plyushchaĭ, M. S. *see* **Leiva, Carlos, 2004m:81252**
Poghossian, Rubik H. *see* **Flume, R., 2004e:81180**
Pokorski, Stefan *see* **Falkowski, Adam et al., 2004e:81179** *and* **Dudas, Emilian et al., 2004j:81171**
Polchinski, Joseph *see* **Graña, Mariana, 2004e:81181**
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Pons, Josep M. (*with* Talavera, Pere) Semi-classical string solutions for $\mathcal{N} = 1$ SYM. (English summary) **2004h:81241**
— *see also* **Ametller, Lluís et al., 2004i:81226**
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Prem Kumar, S. *see* **Dorey, Nick et al., 2004f:81214**; **2004f:81215** *and* **2004k:81360**
Prezas, Nikolaos *see* **Niarchos, Vasilis, 2004f:81224**
Quadri, Andrea *see* **Grassi, Pietro A. et al., 2004i:81237**
Rabinovici, Eliezer *see* **Berman, David S., 2004m:81238**
Ramallo, Alfonso V. *see* **Núñez, Carlos et al., 2004k:81378**
Ramírez, Toni *see* **Brugués, Jan et al., 2004g:81258**
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Rey, Soo-Jong *see* **Britto-Pacumio, Ruth A. et al., 2004g:81257**
Rhedin, Henric *see* **Ennes, Isabel P. et al., 2004c:81264**
Ribeiro, Anderson André Genro *see* **Ferrari, A. F. et al.**
Riccioni, F. *see* **Nyawelo, T. S. et al., 2004d:81132**
Ritz, Adam A note on domain walls and the parameter space of $\mathcal{N} = 1$ gauge theories. (English summary) **2004k:81381**
Rodriguez, J.-Alexis *see* **Diaz, Rodolfo A. et al., 2004d:81123**
Roiban, Radu (*with* Tatar, Radu; Walcher, Johannes) Massless flavor in geometry and matrix models. (English summary) **2004j:81182**
— *see also* **Bena, Iosif et al., 2004b:81203**; **2004f:81211** *and* **Gross, David J. et al., 2004j:81174**
Romagnoni, Alberto Renormalizability of $\mathcal{N} = 1/2$ Wess-Zumino model in superspace. (English summary) **2004k:81382**
Römelsberger, Christian *see* **Ashok, Sujay K. et al., 2004f:81210** *and* **Brandhuber, Andreas et al., 2004i:81230**
Rosu, Haret C. *see* **Torres A., J., 2004i:81245**
Rühl, Werner *see* **Leonhardt, Thorsten et al., 2004c:81276**; **2004h:81237** *and* **Hoffmann, Laurent et al., 2004h:81236**
Rupp, Christian W. *see* **Kraus, Elisabeth et al., 2004d:81127**
Russo, Jorge G. Anomalous dimensions in gauge theories from rotating strings in $AdS_5 \times S^5$. (English summary) **2004d:81135**
Ryzhov, Anton V. *see* **D'Hoker, Eric et al., 2004e:81176** *and* **Kraus, Per et al., 2004e:81188**
Sahakyan, David A. *see* **Kutasov, David et al., 2004k:81376**
Saidi, El Hassan *see* **Haddou, Malika Ait Ben et al., 2004i:81238** *and* **2004k:81365**
Sakai, Norisuke *see* **Arai, Masato et al.**, (**2004j:81004**)
Sakamura, Yutaka Modified mode-expansion on a BPS wall related to the nonlinear realization. (English summary) **2004e:81195**
— Effective theory for wall-antiwall system. (English summary) **2004f:81226**
— Superfield description of effective theories on BPS domain walls. (English summary) **2004f:81227**
Sako, Akifumi (*with* Suzuki, Toshiya) Ring structure of SUSY $*$ product and $1/2$ SUSY Wess-Zumino model. (English summary) **2004k:81383**
Samsonov, I. B. On superconformal invariance of $\mathcal{N} = 3$ super-Yang-Mills model. (English and Russian summaries)
Samtleben, Henning *see* **de Wit, Bernard et al., 2004i:81246**
Santambrogio, A. *see* **Arutyunov, Gleb E. et al., 2004h:81227**
Sasaki, Toru[2] Gap condition and self-dualized $\mathcal{N} = 4$ super-Yang-Mills theory for ADE gauge group on $K3$. (English summary)
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Scharf, Günter *see* **Grigore, Dan Radu, 2004d:81125**
Schnitzer, Howard J. *see* **Ennes, Isabel P. et al., 2004c:81264**; **2004c:81265**; **Naculich, Stephen G. et al., 2004c:81279** *and* **2004f:81222**
Schoutens, Kareljan *see* **Fendley, Paul et al., 2004c:81266**
Schubert, Christian *see* **Eden, Burkhard et al., 2004g:81262**
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— *see also* **Cachazo, Freddy et al., 2004c:81261**
Seki, Shigenori Comments on quiver gauge theories and matrix models. (English summary) **2004f:81228**
Selivanov, Konstantin G. (*with* Smilga, Andrei V.) Effective Lagrangian for 3d $\mathcal{N} = 4$ SYM theories for any gauge group and monopole moduli spaces. (English summary) **2004m:81255**
Semenoff, Gordon W. (*with* Zarembo, Konstantin) Wilson loops in SYM theory: from weak to strong coupling. (English summary) **2004e:81197**
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Sevrin, Alexander *see* **Koerber, Paul et al., 2004k:81374**
Sezgin, E. *see* **Engquist, Johan et al., 2004c:81263** *and* **2004m:81242**
Sfetsos, Konstadinos *see* **Hernández, Rafael, 2004m:81245**
Sherry, T. N. *see* **McKeon, D. G. C., 2004j:81179**
Shifman, M. *see* **Losev, Andrei S. et al., 2004a:81229**; **2004k:81377** *and* **Armoni, Adi et al., 2004k:81354**
Shigemori, Masaki *see* **Kraus, Per et al., 2004e:81188**
Shima, Kazunari (*with* Tsuda, Motomu) Linearizing $N = 1$ nonlinear supersymmetry with higher derivative terms of a Nambu-Goldstone fermion. (English summary)
Sibold, Klaus *see* **Kraus, Elisabeth et al., 2004d:81127**
da Silva, A. J. *see* **Ferrari, A. F. et al.**
Simón, Joan *see* **Figueroa-O'Farrill, José**
Sin, Sang-Jin *see* **Klein, Matthias, 2004k:81372**
Sinkovics, Annamaria *see* **Dorey, Nick et al., 2004a:81222**; **2004f:81214** *and* **2004f:81215**
Skiba, Witold *see* **Constable, Neil R. et al., 2004b:81205**
Smilga, Andrei V. Effective Lagrangians for $(0 + 1)$ and $(1 + 1)$ dimensionally reduced versions of $D = 4$, $\mathcal{N} = 2$ SYM theory. (English summary) **2004a:81231**
— Abelian matrix models in two loops. (English summary) **2004c:81281**
— Weak supersymmetry. (English summary) **2004m:81256**
— *see also* **Selivanov, Konstantin G., 2004m:81255** *and* **Akhmedov, E. T.**
Sokatchev, Emery *see* **Ferrara, Sergio, 2004c:81267**; **Arutyunov, Gleb E. et al., 2004f:81209**; **2004h:81227**; **2004i:81227**; **2004i:81228** *and* **Eden, Burkhard et al., 2004g:81262**
Son, Dam Thanh *see* **Policastro, Giuseppe et al., 2004b:81218**
Starinets, Andrei O. *see* **Policastro, Giuseppe et al., 2004b:81218**; **Porrati, Massimo, 2004b:81219** *and* **Núñez, Alvaro, 2004h:81240**
Staudacher, Matthias *see* **Kristjansen, C. et al., 2004a:81227**; **Beisert, Niklas et al., 2004c:81259**; **2004h:81228**; **2004k:81355** *and* **2004m:81237**
Stelle, Kellogg S. (*with* Van Proeyen, Antoine) Wess-Zumino sigma models with non-Kählerian geometry. (English summary) **2004i:81244**
— *see also* **Howe, Paul S., 2004b:81214**
Strassler, Matthew J. On confinement and duality. (English summary) **2004g:81271**
Sugawara, Yuji *see* **Eguchi, Tohru, 2004e:81178**
Sundell, P. *see* **Engquist, Johan et al., 2004c:81263** *and* **2004m:81242**
Suzuki, Hisao Perturbative derivation of exact superpotential for meson fields from matrix theories with one flavour. (English summary) **2004c:81282**
— Mean-field approach to the derivation of baryon superpotential from matrix model. (English summary) **2004e:81198**
Suzuki, Toshiya *see* **Sako, Akifumi, 2004k:81383**
Syed, Raza M. *see* **Nath, Pran, 2004j:81180**
Tachikawa, Yuji Derivation of the linearity principle of Intriligator-Leigh-Seiberg. (English summary) **2004k:81384**
Talavera, Pere *see* **Pons, Josep M., 2004h:81241** *and* **Ametller, Lluís et al., 2004i:81226**
Tatar, Radu *see* **Roiban, Radu et al., 2004j:81182** *and* **Oh, Kyungho, 2004k:81379**
Taylor, Brett J. On the moduli space of SU(3) Seiberg-Witten theory with matter. (English summary) **2004k:81385**
Terning, John *see* **Csáki, Csaba et al., 2004b:81206**
Theis, Ulrich (*with* Vandoren, Stefan) $N = 2$ supersymmetric scalar-tensor couplings. (English summary) **2004f:81229**
Theisen, Stefan *see* **Kuzenko, Sergei M. et al., 2004d:81128** *and* **Klemm, Albrecht et al., 2004e:81187**
Thorn, Charles B. *see* **Gudmundsson, Skuli et al., 2004e:81182**
Tirziu, Alin (*with* Fendley, Paul) BPS and non-BPS states in a supersymmetric Landau-Ginzburg theory. (English summary) **2004c:81283**
Tong, David Comments on condensates in non-supersymmetric orbifold field theories. (English summary) **2004b:81220**
— *see also* **Gukov, Sergei, 2004c:81270**
de la Torre Mayado, M. *see* **Alonso Izquierdo, A. et al., 2004c:81256**
Torres A., J. (*with* Rosu, Haret C.) Differential equations extended to superspace. (English and Spanish summaries) **2004i:81245**
Townsend, Paul Kingsley *see* **Portugues, Ruben, 2004a:81230**
Tran, Tuan A. *see* **Gudmundsson, Skuli et al., 2004e:81182**
Travaglini, Gabriele *see* **Georgiou, George et al., 2004k:81363**
Trincherini, Enrico *see* **Casero, Roberto, 2004j:81170**
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Tseytlin, Arkady A. String theory–gauge theory duality and corrections to RG flow in $N = 1$ supersymmetric gauge theory. (English summary) **2004c:81284**
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Tsuda, Motomu *see* **Shima, Kazunari**
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Yamada, Mitsuru *see* **Onizawa, S.**
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Yung, A. V. *see* **Auzzi, Roberto et al., 2004i:81229** *and* **Evlampiev, K., 2004m:81243**
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Zabzine, Maxim *see* **Lindström, Ulf, 2004f:81221** *and* **Albertsson, Cecilia et al., 2004g:81253**
Zarembo, Konstantin *see* **Minahan, Joseph A., 2004d:81131**; **Pestun, Vasily, 2004e:81194**; **Semenoff, Gordon W., 2004e:81197**; **Engquist, Johan et al., 2004k:81361** *and* **Beisert, Niklas et al., 2004m:81237**
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Bjerrum-Bohr, N. E. J. Generalized string theory mapping relations between gravity and gauge theory. (English summary) **2004h:81176**
de Boer, Jan *see* **Bertolini, Matteo et al., 2004f:83081**
Bolognesi, Stefano *see* **Auzzi, Roberto et al., 2004m:81151**
Bonelli, Giulio Matrix strings in pp-wave backgrounds from deformed super Yang-Mills theory. (English summary) **2004a:81175**
Bordag, Michael (*with* Goldhaber, Alfred Scharff; van Nieuwenhuizen, Peter; Vasilevich, D. V.) Heat kernels and zeta-function regularization for the mass of the supersymmetric kink. (English summary) **2004f:81158**
Borokhov, Vadim (*with* Gubser, Steven S.) Non-supersymmetric deformations of the dual of a confining gauge theory. (English summary) **2004e:83092**
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Brandhuber, Andreas *see* **Berglund, Per, 2004f:53055**
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Braun, Volker On Berenstein-Douglas-Seiberg duality. (English summary) **2004f:81172**
Brax, Philippe (*with* Janik, Romuald A.; Peschanski, R.) On the AdS/CFT dual of deconstruction. (English summary) **2004e:81085**
Brecher, Dominic (*with* Johnson, Clifford V.; Lovis, Kenneth J.; Myers, Robert C.) Penrose limits, deformed pp-waves and the string duals of $\mathcal{N} = 1$ large-N gauge theory. (English summary) **2004k:81253**
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Chandia, Osvaldo *see* **Berkovits, Nathan, 2004c:81191**
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Cirafici, Michele *see* **Alday, Luis Fernando et al., 2004f:81204**; **2004j:81160** *and* **2004m:81229**

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D'Auria, Riccardo *see* **Andrianopoli, Laura et al., 2004i:83134**

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Giddings, Steven B. *see* **Freivogel, Ben et al., 2004b:83128**

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Headrick, Matthew *see* **Constable, Neil R. et al., 2004a:81180**
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Hernández, Rafael (*with* Sfetsos, Konstadinos) Holonomy from wrapped branes. (English summary) **2004m:83093**
Herzog, Christopher P. *see* **Klebanov, Igor R. et al., 2004k:81291**
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Hoevenaars, L. K. *see* **Martini, R., 2004j:35039**
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Hu, Sen *see* **Wang, Xiao-Jun, 2004j:83137**
Husain, Tasneem Zehra That's a wrap! (English summary) **2004g:81208**
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Imeroni, Emiliano *see* **Di Vecchia, Paolo et al., 2004c:81199** *and* **Bertolini, Matteo et al., 2004f:83081**
Iqbal, Amer (*with* Kashani-Poor, Amir-Kian) Discrete symmetries of the superpotential and calculation of disk invariants. (English summary) **2004m:14120**
Ito, Katsushi (*with* Sekino, Yasuhiro) Penrose limit and enhançon geometry. (English summary) **2004h:83084**
— *see also* **Araki, Takeo et al., 2004i:81249**
Itou, Etsuko *see* **Higashijima, Kiyoshi et al., 2004a:53025** *and* **2004g:81160**
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Jackson, Mark G. *see* **Conley, John Anthony et al., 2004b:81153**
Janik, Romuald A. *see* **Brax, Philippe et al., 2004e:81085**
Järv, Laur (*with* Johnson, Clifford V.) Rotating black holes, closed timelike curves, thermodynamics, and the enhançon mechanism. (English summary) **2004k:83069**
Johnson, Clifford V. *see* **Carlisle, James E., 2004g:81158**; **Brecher, Dominic et al., 2004k:81253** *and* **Järv, Laur, 2004k:83069**
Jokinen, Asko *see* **Enqvist, Kari et al.**
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Kaplan, David B. (*with* Katz, Emanuel; Ünsal, Mithat) Supersymmetry on a spatial lattice. (English summary) **2004d:81078**
— *see also* **Cohen, Andrew Glen et al.**
Karp, Robert L. *see* **Aspinwall, Paul S., 2004i:81183**
Kashani-Poor, Amir-Kian *see* **Iqbal, Amer, 2004m:14120**
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Kasuya, Shinta *see* **Enqvist, Kari et al.**
Katz, Emanuel *see* **Kaplan, David B. et al., 2004d:81078** *and* **Cohen, Andrew Glen et al.**
Katz, Sheldon H. *see* **Hori, Kentaro et al., 2004g:14042**
Kawamura, Yoshiharu *see* **Haba, Naoyuki et al., 2004e:81086a** *and* **2004e:81086b**
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Ketov, Sergei V. More on the gauge-fixed D3-brane action with dilaton-axion coupling from $N=1$ superspace. (English summary)
— Instanton-induced scalar potential for the universal hypermultiplet. (English summary) **2004m:83107**
Keurentjes, Arjan The group theory of oxidation. (English summary) **2004k:83147a**
— The group theory of oxidation. II. Cosets on non-split groups. (English summary) **2004k:83147b**
Khoze, Valentin V. *see* **Dorey, Nick et al., 2004c:81163** *and* **Georgiou, George, 2004e:81128**
Kim, Hongsu Supergravity duals in the noncommutative $\mathcal{N}=4$ super Yang-Mills theory in the infinite momentum frame. (English summary) **2004k:83160**
Kimura, Tetsuji *see* **Higashijima, Kiyoshi et al., 2004a:32038** *and* **2004b:32038**
Kiritsis, Elias *see* **Antoniadis, Ignatios et al., 2004d:81161**
Kiss, Annamária (*with* Loyer, Emmanuel) Equations of motion for $N=8$ supergravity from its geometrical description in central charge superspace. (English summary) **2004e:83116**
Kitazawa, Yoshihisa *see* **Imai, Takaaki et al., 2004k:81284**
Klebanov, Igor R. (*with* Herzog, Christopher P.; Ouyang, Hua Jiang) D-branes on the conifold and $\mathcal{N}=1$ gauge/gravity dualities. (English summary) **2004k:81291**
Klemm, Albrecht *see* **Hori, Kentaro et al., 2004g:14042**
Klemm, Dietmar *see* **Caldarelli, Marco M., 2004i:83135**
Kobayashi, Tatsuo *see* **Abe, Hiroyuki et al., 2004c:81176**
Kokorelis, Christos GUT model hierarchies from intersecting branes. (English summary) **2004b:81174**
Konishi, Kenichi (*with* Ricco, Antonio) Calculating gluino condensates in $\mathcal{N}=1$ SYM from Seiberg-Witten curves. (English summary)
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Körs, Boris (*with* Nath, Pran) Effective action and soft supersymmetry breaking for intersecting D-brane models. (English summary) **2004k:81293**
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Kraus, Per (*with* Shigemori, Masaki) On the matter of the Dijkgraaf-Vafa conjecture. (English summary) **2004e:81144**
Krivonos, S. O. *see* **Ivanov, Evgeniĭ Alekseevich[2] et al., 2004c:81091**
Król, Jerzy[2] Set theoretical forcing in quantum mechanics and AdS/CFT correspondence. (English summary) **2004m:81015**
Kubota, Takahiro (*with* Ueno, Tatsuya; Yokoi, Naoto) Wheeler-DeWitt equation in AdS/CFT correspondence. (English summary) **2004k:83161**
— *see also* **Nishihara, Koske**
Kulik, Bogdan *see* **Guralnik, Zachary, 2004k:81342**
Kummer, Wolfgang *see* **Bergamin, Luzi et al., 2004m:83103**
Kuzenko, Sergei M. (*with* McCarthy, Shane A.) Nonlinear self-duality and supergravity. (English summary) **2004b:83152**
Laugier, Alexandre *see* **Antoniadis, Ignatios et al., 2004b:81138**
Lechtenfeld, Olaf *see* **Ivanov, Evgeniĭ Alekseevich[2] et al., 2004c:81091**
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Lelli, Simone (*with* Maggiore, Michele; Rissone, Anna) Perturbative and non-perturbative aspects of the two-dimensional string/Yang-Mills correspondence. (English summary) **2004e:81146**
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Lerda, Alberto *see* **Billó, Marco et al., 2004e:81112**
Liccardo, Antonella *see* **Billó, Marco et al., 2004e:81112**
Linares, Román *see* **Bergshoeff, Eric et al., 2004h:83094** *and* **2004h:83095**
Lippert, Matthew *see* **Freivogel, Ben et al., 2004b:83128**
Litvintsev, Andrei *see* **Goldhaber, Alfred Scharff et al., 2004f:81155**
Liu, James T. *see* **Cvetič, Mirjam et al., 2004a:81182**; **Buchel, Alex, 2004m:81180** *and* **Güven, R. et al., 2004m:83105**
Lledó, María A. *see* **Andrianopoli, Laura et al., 2004i:83134** *and* **Ferrara, Sergio et al., 2004j:81194**
Lovis, Kenneth J. *see* **Brecher, Dominic et al., 2004k:81253**
Lowe, David A. *see* **Brower, Richard C. et al., 2004c:81195**
Loyer, Emmanuel *see* **Kiss, Annamária, 2004e:83116**
Lozano-Tellechea, Ernesto (*with* Meessen, Patrick; Ortín, Tomás) On $d=4,5,6$ vacua with eight supercharges. (English summary) **2004c:83147**
— *see also* **Di Vecchia, Paolo et al., 2004c:81199**
Lü, Hong[1] *see* **Cvetič, Mirjam et al., 2004a:81182**; **2004c:81198** *and* **Kerimo, J., 2004m:83106**
Lunin, Oleg (*with* Rey, Soo-Jong) Renormalizability of non(anti)commutative gauge theories with $\mathcal{N}=1/2$ supersymmetry. (English summary) **2004j:81095**
Lüst, Dieter *see* **Cardoso, Gabriel Lopes, 2004a:81169** *and* **Behrndt, Klaus et al., 2004c:81187**
Luty, Markus A. (*with* Sundrum, Raman) Anomaly mediated supersymmetry breaking in four dimensions, naturally. (English summary) **2004b:81073**
Maciá, Oscar *see* **Ferrara, Sergio et al., 2004j:81194**
Maggiore, Michele *see* **Lelli, Simone et al., 2004e:81146**
Mahapatra, Swapna *see* **Behrndt, Klaus et al., 2004c:81187**
Maldacena, Juan Large N field theories, string theory and gravity. (English summary) **2004g:81219a**
— Strings in flat space and plane waves from $\mathcal{N}=4$ super Yang Mills. **2004k:81299**
Malik, R. P. Superfield approach to topological features of non-abelian gauge theory. (English summary) **2004e:81203**
— Cohomological aspects of gauge theories: superfield formalism. (English summary) **2004i:81247**
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Maroto, Antonio L. Casimir effect between moving branes. (English summary) **2004a:81201**
Marshakov, Andrei Seiberg-Witten integrable systems and $\mathcal{N}=1$ SQCD. (English summary) (*see* **2004d:00026**)
Martelli, Dario *see* **Gutowski, Jan B. et al., 2004i:83140**
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Maru, Nobuhito *see* **Abe, Hiroyuki et al., 2004c:81176** *and* **Eto, Minoru et al., 2004c:83143**
Mateos, Toni *see* **Gomis, Joaquim et al., 2004i:83124**
Mateos Guilarte, Juan *see* **Alonso Izquierdo, A. et al., 2004i:70024**
Mattis, Michael P. *see* **Dorey, Nick et al., 2004c:81163**
Mazumdar, Anupam *see* **Enqvist, Kari et al.**
McCarthy, Shane A. *see* **Kuzenko, Sergei M., 2004b:83152**
McGreevy, John Adding flavor to Dijkgraaf-Vafa. (English summary) **2004e:81150**
McKeon, D. G. C. (*with* Van Leeuwen, G.) The simplest supersymmetry algebras in flat ten- and eleven-dimensional spaces. (English summary) **2004j:81075**
McLoughlin, Tristan *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
Meessen, Patrick *see* **Lozano-Tellechea, Ernesto et al., 2004c:83147**
Mezincescu, G. Andrei (*with* Mezincescu, Luca) Factorization method and the supersymmetric monopole harmonics. (English summary) **2004g:81070**
Mezincescu, Luca *see* **Mezincescu, G. Andrei, 2004g:81070**

Michelson, Jeremy (Twisted) toroidal compactification of pp waves. (English summary) **2004a:81202**
— *see also* **Britto-Pacumio, Ruth A. et al., 2004g:83046**
Mikhailov, Andrei Speeding strings. (English summary) **2004m:81206**
Mikulović, Džo Seiberg-Witten map for superfields on canonically deformed $N = 1$, $d = 4$ superspace. (English summary) **2004m:81270**
Minasian, Ruben *see* **Kaste, Peter et al., 2004b:83132** *and* **Antoniadis, Ignatios et al., 2004k:81243**
Minwalla, Shiraz *see* **Constable, Neil R. et al., 2004a:81180**
Mironov, A. D. Seiberg-Witten theories, integrable models and perturbative prepotentials. (English summary) (*see* **2004d:00026**)
— $\mathcal{N} = 1$ SUSY inspired Whitham prepotentials and WDVV. (English summary)
Mitra, Indrajit[2] *see* **Gubser, Steven S., 2004k:83109**
Modesto, Leonardo *see* **Fré, Pietro, 2004b:81161**
Moriyama, Sanefumi *see* **Gomis, Jaume et al., 2004i:81193**
Moura, Filipe Four dimensional "old minimal" $\mathcal{N} = 2$ supersymmetrization of $\mathcal{R}^4$. (English summary) **2004g:83143**
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Mülsch, Dietmar *see* **Geyer, Bodo, 2004k:81341**
Myers, Robert C. Nonabelian D-branes and noncommutative geometry. (English summary) **2004b:81182**
— (*with* Winters, David J.) From D-$\overline{\text{D}}$ pairs to branes in motion. (English summary) **2004c:81225**
— *see also* **Brecher, Dominic et al., 2004k:81253**
Naculich, Stephen G. (*with* Schnitzer, Howard J.; Wyllard, Niclas) A cascading $\mathcal{N} = 1$ $\mathrm{Sp}(2N + 2M) \times \mathrm{Sp}(2N)$ gauge theory. (English summary) **2004d:81101**
Nagaoka, Satoshi Higher dimensional recombination of intersecting D-branes. (English summary) **2004m:81210**
Nakajima, Tadahito *see* **Takahashi, Hidenori et al., 2004b:81236**
Narain, Kumar S. *see* **David, Justin R. et al., 2004k:81345** *and* **Alday, Luis Fernando et al., 2004m:81229**
Nath, Pran *see* **Körs, Boris, 2004k:81293**
(Nekrasov, Nikita A.) *see* **Unity from duality: gravity, gauge theory and strings, 2004d:81004**
Nemeschansky, Dennis *see* **Bagger, Jonathan A. et al., 2004a:83054**
Nicolai, Hermann (*with* Samtleben, Henning) Kaluza-Klein supergravity on $\mathrm{AdS}_3 \times S^3$. (English summary) **2004i:83142**
Nielsen, Mikkel *see* **Bergshoeff, Eric et al., 2004h:83094**
van Nieuwenhuizen, Peter *see* **Goldhaber, Alfred Scharff et al., 2004f:81155**; **Bordag, Michael et al., 2004f:81158**; **Fujikawa, Kazuo et al., 2004i:81224**; **2004j:81163** *and* **Grassi, Pietro A. et al., 2004k:81275**
Nilles, Hans Peter *see* **Polonsky, Nir, 2004e:81226** *and* **Groot Nibbelink, Stefan, (2004d:81001)**
Nishihara, Koske (*with* Kubota, Takahiro) Extension to the super-Weyl-Kähler symmetry in anomaly mediation. (English summary)
Nishimura, Jun[1] (*with* Rey, Soo-Jong; Sugino, Fumihiko) Supersymmetry on the noncommutative lattice. (English summary) **2004c:81294**
Nishino, Hitoshi (*with* Rajpoot, Subhash) Noncommutative self-dual supersymmetric Yang-Mills theory. (English summary) **2004h:81254**
Nitta, Muneto *see* **Higashijima, Kiyoshi et al., 2004a:32038**; **2004a:53025** *and* **2004b:32038**
Nolland, David *see* **Mansfield, Paul et al., 2004f:81188** *and* **2004m:81234**
Nomura, Yasunori *see* **Hall, Lawrence J. et al.**
Nooij, Sander E. M. *see* **Cleaver, Gerald B. et al., 2004k:81430**
Núñez, Carlos Dualities between gauge and supergravity/string theories. (English summary) (*see* **2004m:83003**)
Obers, Niels A. *see* **Bertolini, Matteo et al., 2004f:83081**
Ohtsuka, Akihisa *see* **Araki, Takeo et al., 2004i:81249**
Okui, Takemichi *see* **Hall, Lawrence J. et al.**
Oliveira, Alexandre L. *see* **Carvalho, Marcelo Ferreira Lima, 2004m:81103**
Oliver, Steven J. *see* **Hall, Lawrence J. et al.**
Ooguri, Hirosi *see* **DeWolfe, Oliver et al., 2004a:81185**
Ortín, Tomás *see* **Lozano-Tellechea, Ernesto et al., 2004c:83147** *and* **Bergshoeff, Eric et al., 2004h:83094**
Ouyang, Hua Jiang *see* **Klebanov, Igor R. et al., 2004k:81291**
Pakis, Stathis *see* **Gauntlett, Jerome P., 2004i:83139**
Palla, Laszlo *see* **Bajnok, Zoltan et al., 2004c:81157**
Panda, Sudhakar (*with* Sorokin, D. P.) Supersymmetric and κ-invariant coincident D0-branes. (English summary) **2004c:81227**
Pandharipande, Rahul *see* **Hori, Kentaro et al., 2004g:14042**
Pando Zayas, Leopoldo A. (*with* Vaman, Diana) Hadronic density of states from string theory. (English summary) **2004g:81228**
— *see also* **Gimon, Eric G. et al., 2004e:81129**
Pankiewicz, Ari (*with* Theisen, Stefan) Introductory lectures on string theory and the ADS/CFT correspondence. (English summary) **2004h:81201**
Papadopoulos, George *see* **Figueroa-O'Farrill, José, 2004a:83081** *and* **Gutowski, Jan B., 2004c:83145**
Park, Jeong-Hyuck Superfield theory and supermatrix model. (English summary) **2004j:81199**
Park, Jongwon *see* **Gomis, Jaume et al., 2004i:81193**
Patricot, Christophe Kaigorodov spaces and their Penrose limits. (English summary) **2004e:83108**
Penati, Silvia *see* **Grisaru, Marcus T. et al., 2004h:81150**
Pesando, Igor *see* **Billó, Marco et al., 2004e:81112**
Peschanski, R. *see* **Brax, Philippe et al., 2004e:81085**
Petrini, Michela *see* **Kaste, Peter et al., 2004b:83132**
Petrov, A. Yu. *see* **Girotti, H. O. et al., 2004h:81250**
Philbin, T. G. Supergravity and $\mathrm{IOSp}(3, 1|4)$ gauge theory. (English summary) **2004j:83144**
Pickles, Mike *see* **Achúcarro, A. et al.**
Piguet, Olivier Diffeomorphism invariant theories and vector supersymmetry. (English summary) **2004g:83010**
Pinsky, Stephen *see* **Harada, Motomichi**
Plyushchaĭ, M. S. (*with* Sorokin, D. P.; Tsulaia, Mirian) Higher spins from tensorial charges and $\mathrm{OSp}(N|2n)$ symmetry. (English summary) **2004g:83145**
— *see also* **Leiva, Carlos, 2004j:81065**
Policastro, Giuseppe *see* **Grassi, Pietro A. et al., 2004k:81275**
Polonsky, Nir ★ Supersymmetry: structure and phenomena. (English summary) **2004e:81226**
Pomerance, Laura *see* **Conley, John Anthony et al., 2004b:81153**
Poon, Yat Sun (*with* Swann, Andrew) Superconformal symmetry and hyperKähler manifolds with torsion. (English summary) **2004i:53055**
Pope, C. N. *see* **Cvetič, Mirjam et al., 2004a:81182**; **2004c:81198** *and* **Güven, R. et al., 2004m:83105**
Poppitz, Erich Deconstructing KK monopoles. (English summary) **2004h:83075**
Pouliot, Philippe Finite number of states, de Sitter space and quantum groups at roots of unity. (English summary) **2004j:83051**
Quiroga Hurtado, John *see* **Brevik, Iver**
Quirós, Mariano *see* **Delgado, Antonio et al., 2004a:81126**
Rajpoot, Subhash *see* **Nishino, Hitoshi, 2004h:81254**
(Rajput, Balwant Singh) *see* **Müller-Krumbhaar, H., 2004c:83064**
Ramgoolam, Sanjaye *see* **Corley, Steven, 2004m:81185**
Ramond, Pierre Dirac's footsteps and supersymmetry. (English summary)
Rattazzi, Riccardo (*with* Scrucca, Claudio A.; Strumia, Alessandro) Brane to brane gravity mediation of supersymmetry breaking. (English summary)
Ratz, Michael[2] *see* **Hebecker, Arthur, 2004h:81273**
Reall, Harvey S. *see* **Gutowski, Jan B. et al., 2004i:83140**
Rebhan, Anton *see* **Fujikawa, Kazuo et al., 2004j:81163**
Redi, Michele *see* **Bagger, Jonathan A., 2004k:83134**
Restuccia, A. *see* **Boulton, Lyonell S. et al., 2004i:83119**
Rey, Soo-Jong *see* **Nishimura, Jun[1] et al., 2004c:81294**; **Britto-Pacumio, Ruth A. et al., 2004h:81248** *and* **Lunin, Oleg, 2004j:81095**
Ricco, Antonio *see* **Konishi, Kenichi**
Rissone, Anna *see* **Lelli, Simone et al., 2004e:81146**
Rivelles, Victor O. *see* **Girotti, H. O. et al., 2004h:81250**
Rizos, J. *see* **Antoniadis, Ignatios et al., 2004d:81161**
Roest, Diederik *see* **Bergshoeff, Eric et al., 2004h:83094** *and* **2004h:83095**
Roiban, Radu (*with* Spradlin, Marcus; Volovich, Anastasia) On light-cone SFT contact terms in a plane wave. (English summary) **2004k:81310**
Rojas, Moises *see* **Carrion, Hector Leny et al., 2004b:81244** *and* **2004e:81065**
Romagnoni, Alberto *see* **Grisaru, Marcus T. et al., 2004h:81150**
Rühl, Werner *see* **Leonhardt, Thorsten, 2004c:81175**
Sagnotti, Augusto Open-string models with broken supersymmetry. (English summary) (*see* **2004e:82003**)
Sakai, Norisuke *see* **Hashimoto, Koji, 2004a:81192** *and* **Eto, Minoru et al., 2004c:83143**
Sakata, Tsuyoshi *see* **Eto, Minoru et al., 2004c:83143**
Saleur, Hubert (*with* Wehefritz-Kaufmann, Birgit) Scattering in quantum field theories with supergroup invariance. (English summary) (*see* **2004e:82003**)
Samtleben, Henning *see* **de Wit, Bernard et al., 2004b:83154**; **Nicolai, Hermann, 2004i:83142** *and* **Berg, Marcus, 2004m:81159**
Sandström, Niclas *see* **Edgren, Ludde, 2004m:81258**
Sati, Hisham *see* **Evslin, Jarah, 2004j:81162**
Schalm, Koenraad *see* **Greene, Brian R. et al., 2004c:81209**
Schnitzer, Howard J. *see* **Naculich, Stephen G. et al., 2004d:81101**
Schvellinger, Martin Spinning and rotating strings for $\mathcal{N} = 1$ SYM theory and brane constructions. (English summary) **2004k:81315**
Schwarz, John H. *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
Scrucca, Claudio A. *see* **Rattazzi, Riccardo et al.**
Seiberg, Nathan Noncommutative superspace, $\mathcal{N} = 1/2$ supersymmetry, field theory and string theory. (English summary) **2004k:81406**
— *see also* **Berkovits, Nathan, 2004j:81128**
Sekino, Yasuhiro *see* **Ito, Katsushi, 2004h:83084**
Sezgin, E. *see* **Güven, R. et al., 2004m:83105**
Sfetsos, Konstadinos *see* **Hernández, Rafael, 2004m:83093**
Shigemori, Masaki *see* **Kraus, Per, 2004e:81144**
Shiu, Gary *see* **Greene, Brian R. et al., 2004c:81209**
Shrivastava, Sharad *see* **Conley, John Anthony et al., 2004b:81153**
Sibiryakov, S. M. *see* **Dubovskiĭ, S. L., 2004e:81206**
da Silva, A. J. *see* **Girotti, H. O. et al., 2004h:81250**
Silva, Pedro J. *see* **Martucci, Luca, 2004g:81223** *and* **Gomis, Joaquim et al., 2004i:83124**
Siopsis, George Thermodynamics of conformal field theories and cosmology. (English summary) **2004c:83163**
Sochichiu, Corneliu *see* **Bellucci, Stefano, 2004h:81172**
Sokatchev, Emery *see* **Ferrara, Sergio, 2004m:81266**
Sonnenschein, Jacob *see* **Gimon, Eric G. et al., 2004e:81129**
Soroka, D. V. (*with* Soroka, Vyacheslav A.) Exterior differentials in superspace and Poisson brackets. (English summary) **2004c:58014**
Soroka, Vyacheslav A. *see* **Soroka, D. V., 2004c:58014**
Sorokin, D. P. *see* **Panda, Sudhakar, 2004c:81227** *and* **Plyushchaĭ, M. S. et al., 2004g:83145**
Spradlin, Marcus *see* **Roiban, Radu et al., 2004k:81310**
Strassler, Matthew J. *see* **Gimon, Eric G. et al., 2004e:81129**
Strominger, Andrew *see* **Britto-Pacumio, Ruth A. et al., 2004g:83046**
Strumia, Alessandro *see* **Rattazzi, Riccardo et al.**
Sugino, Fumihiko A lattice formulation of super Yang-Mills theories with exact supersymmetry. (English summary) **2004m:81171**
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Sundrum, Raman *see* **Luty, Markus A., 2004b:81073**
Suryanarayana, Nemani V. The holographic dual of a SUSY vector model and tensionless open strings. (English summary) **2004f:81194**
Suzuki, Kenji[1] *see* **Takahashi, Hidenori et al., 2004b:81236**

Swann, Andrew *see* **Poon, Yat Sun, 2004i:53055**
Swanson, Ian *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
Takács, Gabor *see* **Bajnok, Zoltan et al., 2004c:81157**
Takahashi, Hidenori (*with* Nakajima, Tadahito; Suzuki, Kenji[1]) D1/D5 system and Wilson loops in (non)commutative gauge theories. (English summary) **2004b:81236**
Takayama, Yastoshi *see* **Imai, Takaaki et al., 2004k:81284**
Tan, Chung-I *see* **Brower, Richard C. et al., 2004c:81195**
Terashima, Seiji (*with* Yee, Jung-Tay) Comments on noncommutative superspace. (English summary) **2004k:81410**
Theisen, Stefan *see* **Pankiewicz, Ari, 2004h:81201** *and* **Antoniadis, Ignatios et al., 2004k:81243**
Thomas, Richard Paul *see* **Hori, Kentaro et al., 2004g:14042**
Tomaras, Theodore N. *see* **Antoniadis, Ignatios et al., 2004d:81161**
Tomasiello, Alessandro *see* **Kaste, Peter et al., 2004b:83132**
Tomino, Dan $N = 2$ 3d-matrix integral with Myers term. (English summary) **2004m:81272**
— *see also* **Imai, Takaaki et al., 2004k:81284**
Tong, David Mirror mirror on the wall (on two-dimensional black holes and Liouville theory). (English summary) **2004e:83057**
— *see also* **Hanany, Amihay, 2004k:81278**
Toppan, Francesco *see* **Carrion, Hector Leny et al., 2004b:81244** *and* **2004e:81065**
de la Torre Mayado, M. *see* **Alonso Izquierdo, A. et al., 2004i:70024**
Tóth, Gábor Zsolt $N = 1$ supersymmetric boundary bootstrap. (English summary) **2004m:81114**
Trigiante, Mario *see* **de Wit, Bernard et al., 2004b:83154**
Tseytlin, Arkady A. *see* **Fotopoulos, Angelo, 2004e:81126** *and* **Frolov, Sergei A., 2004h:81190**
Tsulaia, Mirian *see* **Plyushchaĭ, M. S. et al., 2004g:83145**
Ueno, Tatsuya *see* **Mansfield, Paul et al., 2004f:81188**; **2004m:81234** *and* **Kubota, Takahiro et al., 2004k:83161**
Ülker, Kayhan *see* **Dayi, Ömer F. et al., 2004j:81190**
Ünsal, Mithat *see* **Kaplan, David B. et al., 2004d:81078** *and* **Cohen, Andrew Glen et al.**
Urrestilla, Jon *see* **Achúcarro, A. et al.**
Vafa, Cumrun *see* **Hori, Kentaro et al., 2004g:14042**
Vakil, Ravi *see* **Hori, Kentaro et al., 2004g:14042**
Vaman, Diana *see* **Pando Zayas, Leopoldo A., 2004g:81228**
Vanhove, Pierre *see* **Antoniadis, Ignatios et al., 2004k:81243**
Van Leeuwen, G. *see* **McKeon, D. G. C., 2004j:81075**
Van Proeyen, Antoine *see* **Bergshoeff, Eric, 2004g:81183**; **Gomis, Joaquim et al., 2004i:83124** *and* **Alekseevskiĭ, D. V. et al., 2004m:53080**
Vargas Moniz, P. FRW minisuperspace with local $N = 4$ supersymmetry and self-interacting scalar field. (English summary) **2004a:83084**
Vasilevich, D. V. *see* **Bordag, Michael et al., 2004f:81158**
Volovich, Anastasia *see* **Britto-Pacumio, Ruth A. et al., 2004g:83046** *and* **Roiban, Radu et al., 2004k:81310**
Walcher, Johannes *see* **Hanany, Amihay, 2004g:81202**
Waldron, Andrew *see* **Deser, Stanley, 2004h:83098**
Wang, Xiao-Jun (*with* Hu, Sen) Intersecting branes and adding flavors to the Maldacena-Nuñez background. (English summary) **2004j:83137**
Warner, Nicholas P. Gauged supergravity and holographic field theory.
Wehefritz-Kaufmann, Birgit *see* **Saleur, Hubert**, (**2004e:82003**)
Wheater, John F. *see* **Austing, Peter, 2004k:81248**
Winters, David J. *see* **Myers, Robert C., 2004c:81225**
de Wit, Bernard (*with* Samtleben, Henning; Trigiante, Mario) On Lagrangians and gaugings of maximal supergravities. (English summary) **2004b:83154**
de Wit, Tim C. *see* **Bergshoeff, Eric et al., 2004h:83095**
Witten, Edward *see* **Atiyah, Michael Francis, 2004f:53046**
Woo, Kyungsung *see* **Ahn, Changhyun, 2004k:83155**
Wu, Xinkai *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
Wyllard, Niclas *see* **Naculich, Stephen G. et al., 2004d:81101**
Yapışkan, Barış *see* **Dayi, Ömer F. et al., 2004j:81190**
Yee, Jung-Tay *see* **Terashima, Seiji, 2004k:81410**
Yi, Sang-Heon *see* **Lee, Kimyeong, 2004b:81176**
Yokoi, Naoto *see* **Kubota, Takahiro et al., 2004k:83161**
Yoshioka, Koichi *see* **Abe, Hiroyuki et al., 2004c:81176**
Zaffaroni, Alberto[1] Gravity in anti-de-Sitter space and quantum field theory. (English summary) **2004m:83082**
Zaslow, Eric *see* **Hori, Kentaro et al., 2004g:14042**
Zhang, Ren-Jie *see* **Bagger, Jonathan A. et al., 2004a:83054**
Zheltukhin, A. A. *see* **Bengtsson, Ingemar, 2004h:81173**

Items listed otherwise than by author

Lecture Notes in Physics. Monographs *see* **Polonsky, Nir, 2004e:81226**
Les Houches ★ Unity from duality: gravity, gauge theory and strings. **2004d:81004**
School:
Theoretical Physics ★ Unity from duality: gravity, gauge theory and strings. **2004d:81004**
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81T70 Quantization in field theory; cohomological methods [see also 58D29]

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Arias, Pío J. (*with* Leal, Lorenzo; Pérez-Mosquera, J. C.) Geometric approach to a massive p form duality. (English summary) **2004d:81138**
Babalic, E. M. (*with* Ciobîrcă, Costin Cătălin; Cioroianu, Eugen Mihăiță; Negru, Iulian; Săraru, Silviu Constantin) Two-dimensional interactions in a class of tensor gauge fields from local BRST cohomology. (English summary)
Băleanu, Dumitru (*with* Güler, Yurdahan) Hamilton-Jacobi formulation of the Harada gauged Floreanini-Jackiw action. (English summary) **2004j:81183**
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Bastianelli, Fiorenzo (*with* Corradini, Olindo; Zirotti, Andrea) BRST treatment of zero modes for the worldline formalism in curved space. (English summary) **2004m:81257**
Batalin, I. A. (*with* Grigor′ev, M. A.) BRST-anti-BRST symmetric conversion of second-class constraints. (English summary) **2004h:81242**
— (*with* Semikhatov, A. M.) Associativity and operator Hamiltonian quantization of gauge theories. (Russian. Russian summary) **2004h:81243**
Bekaert, Xavier (*with* Boulanger, Nicolas) Massless spin-two field S-duality. (English summary) **2004g:81273**
— (*with* Gomberoff, Andrés) Quantization of the Chern-Simons coupling constant. (English summary) **2004b:81223**
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Berkovits, Nathan Covariant quantization of the superstring. (English summary) **2004g:81274**
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Boulanger, Nicolas (*with* Damour, Thibault; Gaultieri, Leonardo; Henneaux, Marc) No consistent cross-interactions for a collection of massless spin-2 fields. (English summary) **2004g:81275**
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Brandt, Friedemann Extended BRST cohomology, consistent deformations and anomalies of four-dimensional supersymmetric gauge theories. (English summary) **2004k:81389**
Bucker, Beatrice Modern approaches to the quantization of gauge theories. (English summary) **2004d:81142**
Cantcheff, M. Botta (*with* Godinho, Cresus F. L.; Scarpelli, A. P. Baêta; Helayël-Neto, José A.) Dual embedding of the Lorentz-violating electrodynamics and Batalin-Vilkovisky quantization. (English summary) **2004k:81390**
Ciobîrcă, Costin Cătălin *see* **Bizdadea, Constantin et al., 2004j:81184** *and* **Babalic, E. M. et al.**
Cioroianu, Eugen Mihăiță *see* **Bizdadea, Constantin et al., 2004d:81141**; **2004j:81184** *and* **Babalic, E. M. et al.**
Corradini, Olindo *see* **Bastianelli, Fiorenzo et al., 2004m:81257**
Damour, Thibault *see* **Boulanger, Nicolas et al., 2004g:81275**
Dudal, David (*with* Verschelde, Henri; Lemes, Vitor Emanuel Rodino; Sarandy, Marcelo S.; Sorella, Silvio Paolo; Picariello, Marco) On the $SL(2,\mathbb{R})$ symmetry in Yang-Mills theories in the Landau, Curci-Ferrari and maximal abelian gauge. (English summary) **2004a:81232**
Edgren, Ludde (*with* Sandström, Niclas) Superfield algorithm for higher order gauge field theories. (English summary) **2004m:81258**
Feng, Haidong (*with* Siegel, Warren) Gauge-covariant vertex operators. (English summary) **2004m:81259**
Gaultieri, Leonardo *see* **Boulanger, Nicolas et al., 2004g:81275**
Geyer, Bodo (*with* Mülsch, Dietmar) Hodge type cohomological gauge theories. (English summary) **2004d:81143**
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Gitman, D. M. *see* **Geyer, Bodo et al.**
Godinho, Cresus F. L. *see* **Cantcheff, M. Botta et al., 2004k:81390**
Gomberoff, Andrés *see* **Bekaert, Xavier, 2004b:81223**
Grassi, Pietro A. (*with* Policastro, Giuseppe; van Nieuwenhuizen, Peter) The covariant quantum superstring and superparticle from their classical actions. (English summary) **2004c:81285**
Grigor′ev, M. A. *see* **Batalin, I. A., 2004h:81242**
Güler, Yurdahan *see* **Băleanu, Dumitru, 2004d:81139** *and* **2004j:81183**
Hatsuda, Machiko (*with* Siegel, Warren) Current algebra approach to string theory. (English summary) (*see* **2004j:81004**)
Helayël-Neto, José A. *see* **Cantcheff, M. Botta et al., 2004k:81390**
Henneaux, Marc *see* **Bekaert, Xavier et al., 2004d:81140** *and* **Boulanger, Nicolas et al., 2004g:81275**
Jiang, Jin Huan (*with* Yun, Liu; Li, Zi Ping) Quantum symmetries in the Maxwell-Chern-Simons theory coupled to scalar fields. (English summary)
Kazama, Yoichi *see* **Aisaka, Yuri, 2004d:81137**
Kim, Seung-Kook *see* **Kim, Yong-Wan et al., 2004h:81244**
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Lavrov, P. M. *see* **Geyer, Bodo et al.**
Leal, Lorenzo Space of signed points and the self-dual model. (English summary)

2004c:81286
— *see also* **Arias, Pío J. et al., 2004d:81138**
Lemes, Vitor Emanuel Rodino *see* **Dudal, David et al., 2004a:81232**
Li, Zi Ping *see* **Jiang, Jin Huan et al.**
Loran, F. Abelian subset of second class constraints. (English summary) **2004g:81276**
Malik, R. P. Superfield approach to topological features of non-abelian gauge theory. (English summary) **2004e:81203**
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— *see also* **Errata: "Superfield approach to a novel symmetry for non-abelian gauge theory"**
Manvelyan, Ruben *see* **Nichols, Alexander et al.**
Marnelius, Robert Open group transformations. (English summary) **2004f:81232**
Miaută, M. T. *see* **Bizdadea, Constantin et al.**
Monemzadeh, M. (*with* Shirzad, A.) Finite order BFFT method. (English summary) **2004j:81185**
— *see also* **Shirzad, A.**
Moshin, P. Yu. *see* **Geyer, Bodo et al.**
Mülsch, Dietmar *see* **Geyer, Bodo, 2004d:81143** *and* **2004m:81260**
Negru, Iulian *see* **Bizdadea, Constantin et al., 2004d:81141** *and* **Babalic, E. M. et al.**
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van Nieuwenhuizen, Peter *see* **Grassi, Pietro A. et al., 2004c:81285**
Pakman, Ari BRST quantization of string theory in AdS_3. (English summary) **2004f:81233**
Park, Young-Jai *see* **Kim, Yong-Wan et al., 2004h:81244**
Pérez-Mosquera, J. C. *see* **Arias, Pio J. et al., 2004d:81138**
Pershin, Vladimir *see* **Berkovits, Nathan, 2004e:81202**
Picariello, Marco *see* **Dudal, David et al., 2004a:81232**
Policastro, Giuseppe *see* **Grassi, Pietro A. et al., 2004c:81285**
Quadri, Andrea Slavnov-Taylor parameterization for the quantum restoration of BRST symmetries in anomaly-free gauge theories. (English summary) **2004e:81204**
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— *see also* **Bizdadea, Constantin et al., 2004d:81141** *and* **2004j:81184**
Sandström, Niclas *see* **Edgren, Ludde, 2004m:81258**
Sarandy, Marcelo S. *see* **Dudal, David et al., 2004a:81232**
Săraru, Silviu Constantin *see* **Bizdadea, Constantin et al., 2004j:81184** *and* **Babalic, E. M. et al.**
Savvidy, G. K. *see* **Nichols, Alexander et al.**
Scarpelli, A. P. Baêta *see* **Cantcheff, M. Botta et al., 2004k:81390**
Semikhatov, A. M. *see* **Batalin, I. A., 2004h:81243**
Shirzad, A. (*with* Monemzadeh, M.) The BFT method with chain structure. (English summary)
— *see also* **Monemzadeh, M., 2004j:81185**
Siegel, Warren *see* **Feng, Haidong, 2004m:81259** *and* **Hatsuda, Machiko, (2004j:81004)**
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van Tonder, André Ghosts as negative spinors. (English summary) **2004b:81224**
Verschelde, Henri *see* **Dudal, David et al., 2004a:81232**
Weldon, H. Arthur Quantization of higher-derivative field theories. (English summary) **2004c:81287**
Yun, Liu *see* **Jiang, Jin Huan et al.**
Zirotti, Andrea *see* **Bastianelli, Fiorenzo et al., 2004m:81257**

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Carvalho, Marcelo Ferreira Lima (*with* Oliveira, Alexandre L.) A new realization for the $d = 2$ topological algebra. (English summary) **2004m:81103**
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Cavagna, Andrea *see* **Annibale, Alessia et al., 2004k:82041**
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Ciocarlie, Calin *see* **Chepelev, Iouri, 2004f:81238**
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Ellwood, Ian (*with* Shelton, Jessie; Taylor, Washington) Tadpoles and closed string backgrounds in open string field theory. (English summary) **2004g:81192**
Ferraris, Marco *see* **Borowiec, Andrzej et al., 2004i:81221**
Figueroa-O'Farrill, José *see* **de Medeiros, P. F. et al., 2004h:81222**
Francaviglia, Mauro *see* **Borowiec, Andrzej et al., 2004i:81221**
Geyer, Bodo (*with* Mülsch, Dietmar) Higher-dimensional analogue of the Blau-Thompson model and $N_T = 8$, $D = 2$ Hodge-type cohomological gauge theories. (English summary) **2004k:81341**
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Govaerts, J. *see* **Villanueva, V. M. et al., 2004g:81152**
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Grassi, Pietro A. (*with* Hurth, Tobias; Quadri, Andrea) Super background field method for $N = 2$ SYM. (English summary) **2004i:81237**
Grigor′ev, M. A. *see* **Barnich, Glenn et al., 2004g:81283**
Grimstrup, J. M. *see* **Gieres, F. et al., 2004b:81194**
Horwitz, Lawrence P. *see* **Adler, Stephen L., 2004g:81173**
Hull, Christopher M. *see* **de Medeiros, P. F. et al., 2004h:81222**
Hurth, Tobias *see* **Grassi, Pietro A. et al., 2004i:81237**
Ikeda, Noriaki[2] Topological field theories and geometry of Batalin-Vilkovisky algebras. (English summary) **2004c:81250**
Imbimbo, C. *see* **Giusto, S., 2004j:81135**
Isaev, A. P. (*with* Ogievetskiĭ, O. V.) BRST and anti-BRST operators for quantum linear algebra $U_q(\mathrm{gl}(N))$. (English summary) **2004b:81078**
Ivanov, Evgeniĭ Alekseevich[2] (*with* Mezincescu, Luca; Pashnev, A. I.; Townsend, Paul Kingsley) Odd coset quantum mechanics. (English summary) **2004f:81087**
Jin, Shuo *see* **Jing, Jian et al.**
Jing, Jian (*with* Long, Zheng-Wen; Tian, Li-Jun; Jin, Shuo) Symplectic quantization of open strings in constant background B-field. (English summary)
Joglekar, Satish D. Some observations on noncovariant gauges and the ε-term. (English summary) **2004a:81159**
Kac, Victor G. (*with* Roan, Shi-Shyr; Wakimoto, Minoru) Quantum reduction for affine superalgebras. (English summary) **2004h:17024**
Kadyshevskiĭ, V. G. (*with* Sorin, A. S.) An $N = (1|1)$ supersymmetric dispersionless Toda lattice hierarchy. (Russian. Russian summary) **2004b:81062**
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Kalkkinen, J. (*with* Stelle, Kellogg S.) Form-field gauge symmetry in M-theory. (English summary) **2004g:81209**
Kazama, Yoichi *see* **Aisaka, Yuri, 2004i:81178**
Khudaverdyan, O. M. *see* **Voronov, Theodore, 2004f:58047**
Klose, Thomas (*with* Marculescu, Sorin) Computation of the chiral anomaly in the bulk quantization. (English summary) **2004d:81119**
Lemes, Vitor Emanuel Rodino (*with* Sarandy, Marcelo S.; Sorella, Silvio Paolo) Ghost condensates in Yang-Mills theories in the Landau gauge. (English summary) **2004j:81109**
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Long, Zheng-Wen *see* **Jing, Jian et al.**
López-Osorio, M. A. (*with* Martínez-Pascual, E.; Toscano, J. J.) Some comments on unitarity gauge. (English and Spanish summaries) **2004m:81155**
Lucio-Martinez, Jose-Luis *see* **Villanueva, V. M. et al., 2004g:81152**
Malik, R. P. Abelian 2-form gauge theory: special features. (English summary) **2004i:81222**
Marculescu, Sorin *see* **Klose, Thomas, 2004d:81119**
Mariño, Marcos (*with* Schiappa, Ricardo) Towards vacuum superstring field theory: the supersliver. (English summary) **2004g:81221**
Martínez-Pascual, E. *see* **López-Osorio, M. A. et al., 2004m:81155**
de Medeiros, P. F. (*with* Hull, Christopher M.; Spence, Bill; Figueroa-O'Farrill, José) Conformal topological Yang-Mills theory and de Sitter holography. (English summary) **2004h:81222**
Mezincescu, Luca *see* **Ivanov, Evgeniĭ Alekseevich**[2] **et al., 2004f:81087**
Mielke, Eckehard W. (*with* Rincón Maggiolo, Alí A.) Algebra for a BRST quantization of metric-affine gravity. (English summary) **2004g:83079**
Mülsch, Dietmar *see* **Geyer, Bodo, 2004k:81341**
Neto, Jorge Ananias Gauging by Stückelberg field-shifting symmetry. (English summary) **2004j:81105**
Nieder, Harald *see* **Gieres, F. et al., 2004b:81194**
Noui, K. *see* **Buffenoir, E. et al., 2004c:81249**
Ogievetskiĭ, O. V. *see* **Isaev, A. P., 2004b:81078**
Oliveira, Alexandre L. *see* **Carvalho, Marcelo Ferreira Lima, 2004m:81103**
Parisi, Giorgio *see* **Annibale, Alessia et al., 2004k:82041**
Pashnev, A. I. *see* **Ivanov, Evgeniĭ Alekseevich**[2] **et al., 2004f:81087**
Picariello, Marco (*with* Torrente-Lujan, Emilio) Slavnov-Taylor1.0: A Mathematica package for computation in BRST formalism. (English summary)

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Pisar, T. *see* **Gieres, F. et al., 2004b:81194**
Quadri, Andrea On a class of embeddings of massive Yang-Mills theory. (English summary) **2004k:81222**
— *see also* **Grassi, Pietro A. et al., 2004i:81237**
Rincón Maggiolo, Alí A. *see* **Mielke, Eckehard W., 2004g:83079**
Roan, Shi-Shyr *see* **Kac, Victor G. et al., 2004h:17024**
Roche, Ph. *see* **Buffenoir, E. et al., 2004c:81249**
Sagnotti, Augusto (*with* Tsulaia, Mirian) On higher spins and the tensionless limit of string theory. (English summary) **2004k:81311**
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Sarandy, Marcelo S. *see* **Dudal, David et al., 2004g:81144**; **2004j:81108** *and* **Lemes, Vitor Emanuel Rodino et al., 2004j:81109**
Schiappa, Ricardo *see* **Mariño, Marcos, 2004g:81221**
Schmid, Rudolf g-symplectic orbits and a solution of the BRST consistency condition. (English summary) **2004m:53143**
Schweda, Manfred *see* **Gieres, F. et al., 2004b:81194**
Shelton, Jessie *see* **Ellwood, Ian et al., 2004g:81192**
Sorella, Silvio Paolo *see* **Dudal, David et al., 2004g:81144**; **2004j:81108** *and* **Lemes, Vitor Emanuel Rodino et al., 2004j:81109**
Sorin, A. S. *see* **Kadyshevskiĭ, V. G., 2004b:81062**
Spence, Bill *see* **de Medeiros, P. F. et al., 2004h:81222**
Starodubtsev, Artem A note on quantization of matrix models. (English summary) **2004k:81321**
Stelle, Kellogg S. *see* **Kalkkinen, J., 2004g:81209**
Stoenescu, G. *see* **Calian, V.**
Tanzini, Alessandro *see* **Baulieu, Laurent et al., 2004g:81249**
Taylor, Washington *see* **Ellwood, Ian et al., 2004g:81192**
Tian, Li-Jun *see* **Jing, Jian et al.**
Torrente-Lujan, Emilio *see* **Picariello, Marco**
Toscano, J. J. *see* **López-Osorio, M. A. et al., 2004m:81155**
Townsend, Paul Kingsley *see* **Ivanov, Evgeniĭ Alekseevich[2] et al., 2004f:81087**
Trevigne, Elisa *see* **Annibale, Alessia et al., 2004k:82041**
Tsulaia, Mirian *see* **Sagnotti, Augusto, 2004k:81311**
Uehara, Shozo (*with* Yamada, Satoshi) Comments on the global constraints in light-cone string and membrane theories. (English summary) **2004a:81208**
Ülker, Kayhan $N = 2$ super Yang-Mills action as a Becchi-Rouet-Stora-Tyutin term, topological Yang-Mills action, and instantons. (English summary) **2004k:81386**
— $N = 2$ super-Yang-Mills action and BRST cohomology. (English summary)
Verschelde, Henri *see* **Dudal, David et al., 2004g:81144** *and* **2004j:81108**
Vicini, Alessandro *see* **Dudal, David et al., 2004g:81144**
Villanueva, V. M. (*with* Govaerts, J.; Lucio-Martinez, Jose-Luis) Quantizing gauge theories without gauge fixing: the physical projector. (English summary) **2004g:81152**
Voronov, Theodore (*with* Khudaverdyan, O. M.) Geometry of differential operators, and odd Laplace operators. (Russian) **2004f:58047**
Wakimoto, Minoru *see* **Kac, Victor G. et al., 2004h:17024**
Yamada, Satoshi *see* **Uehara, Shozo, 2004a:81208**

81T75 Noncommutative geometry methods [see also 46L85, 46L87, 58B34]

Abbaspur, Reza Realization of central charges in theories with generalized noncommutative supersymmetry. (English summary) **2004h:81245**
Abe, Yasumi (*with* Banerjee, Rabin; Tsutsui, Izumi) Duality symmetry and plane waves in non-commutative electrodynamics. (English summary) **2004m:81261**
Acatrinei, Ciprian (*with* Sochichiu, Corneliu) Note on the decay of noncommutative solitons. (English summary)
Adams, Rory *see* **Murugan, Jeff, 2004c:81293**
Agarwal, Abhishek (*with* Akant, L.) Gauge theories on open Lie algebra noncommutative spaces. (English summary) **2004c:81288**
Akant, L. *see* **Agarwal, Abhishek, 2004c:81288**
Alexanian, Garnik (*with* Paranjape, Manu B.; Arnaudon, Daniel) On plane wave and vortex-like solutions of noncommutative Maxwell-Chern-Simons theory. (English summary) **2004m:81262**
Ambjørn, Jan (*with* Catterall, Simon) Stripes from (non-commutative) stars. (English summary) **2004i:81248**
Amelino-Camelia, Giovanni (*with* Mandanici, Gianluca; Yoshida, Kensuke) On the IR/UV mixing and experimental limits on the parameters of canonial noncommutative spacetimes. (English summary)
Araki, Takeo (*with* Ito, Katsushi; Ohtsuka, Akihisa) Supersymmetric gauge theories on noncommutative superspace. (English summary) **2004i:81249**
Armoni, Adi (*with* López, Esperanza; Uranga, Angel M.) Closed strings tachyons and non-commutative instabilities. (English summary) **2004d:81144**
Arnaudon, Daniel *see* **Alexanian, Garnik et al., 2004m:81262**
Asano, Masako Noncommutative branes in D-brane backgrounds. (English summary) **2004g:81279**
Aschieri, P. (*with* Jurčo, Branislav; Schupp, Peter[1]; Wess, Julius) Noncommutative GUTs, Standard Model and C, P, T. (English summary) **2004k:81391**
Bahns, D. Unitary quantum field theory on the noncommutative Minkowski space. (English summary) **2004g:81280**
Balachandran, Aiyalam P. (*with* Kürkçüoğlu, Seçkin; Gupta, Kumar S.) Edge currents in non-commutative Chern-Simons theory from a new matrix model. (English summary) **2004j:81186**
Banerjee, Rabin (*with* Chakraborty, Biswajit; Kumar, Kuldeep[2]) Membrane and non-commutativity. (English summary) **2004g:81281**
— Noncommuting electric fields and algebraic consistency in noncommutative gauge theories. (English summary) **2004g:81282**
— *see also* **Abe, Yasumi et al., 2004m:81261**
Barbosa, G. Dourado On the meaning of the string-inspired noncommutativity and its implications. (English summary) **2004f:81234**
Barnich, Glenn (*with* Brandt, Friedemann; Grigor′ev, M. A.) Seiberg-Witten maps and noncommutative Yang-Mills theories for arbitrary gauge groups. (English summary) **2004g:81283**
Bars, Itzhak (*with* Kishimoto, Isao; Matsuo, Yutaka) Fermionic ghosts in Moyal string field theory. (English summary) **2004h:81246**
Bassetto, Antonio (*with* De Pol, Giancarlo; Vian, Federica) Two-dimensional non-commutative Yang-Mills theory: coherent effects in open Wilson line correlators. (English summary) **2004f:81235**
Becchi, C. (*with* Giusto, S.; Imbimbo, C.) The renormalization of non-commutative field theories in the limit of large non-commutativity. (English summary) **2004g:81284**
Bellucci, Stefano (*with* Bukhbinder, I. L.; Krykhtin, V. A.) Renormalization of the energy-momentum tensor in non-commutative scalar field theory. (English summary) **2004f:81236**
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Bennai, Mohamed (*with* Saidi, El Hassan) Toric varieties with NC toric actions: NC type IIA geometry. (English summary) **2004k:81392**
Bergshoeff, Eric (*with* Berman, David S.; van der Schaar, Jan Pieter; Sundell, P.) The M5 brane and noncommutative loop space. (English summary) **2004g:81285**
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Berman, David S. *see* **Bergshoeff, Eric et al., 2004g:81285** *and* **2004g:81286**
Berrino, G. (*with* Cacciatori, Sergio L.; Celi, Alessio; Martucci, Luca; Vicini, Alessandro) Noncommutative electrodynamics. (English summary) **2004g:81287**
Bertolami, Orfeu (*with* Guisado, Luís) Noncommutative field theory and violation of translation invariance. (English summary) **2004k:81393**
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Bózkaya, H. (*with* Fischer, Peter; Grosse, Harald; Pitschmann, M.; Putz, V.; Schweda, Manfred; Wulkenhaar, Raimar) Space/time non-commutative field theories and causality. (English summary) **2004e:81205**
Brace, Daniel (*with* Cerchiai, Bianca Letizia; Zumino, B.) Nonabelian gauge theories on noncommutative spaces. (English summary) **2004h:81247**
Brandt, Fernando T. (*with* Das, Ashok; Frenkel, Josif; Pereira, Saulo Hernrique; Taylor, John Clayton) Static effective action for noncommutative QED at high temperature. (English summary) **2004g:81288**
Brandt, Friedemann (*with* Martín, Carmelo P.; Ruiz Ruiz, Fernando) Anomaly freedom in Seiberg-Witten noncommutative gauge theories. (English summary) **2004k:81394**
— *see also* **Barnich, Glenn et al., 2004g:81283**
Brito, F. A. *see* **Mariz, T. et al., 2004k:81402**
Britto-Pacumio, Ruth A. (*with* Feng, Bo[1]; Rey, Soo-Jong) Non(anti)commutative superspace, UV/IR mixing & open Wilson lines. (English summary) **2004h:81248**
Bukhbinder, I. L. *see* **Bellucci, Stefano et al., 2004f:81236**
Burić, Maja (*with* Radovanović, Voja) Non-renormalizability of noncommutative SU(2) gauge theory with fermions. (English summary) **2004k:81395**
Cacciatori, Sergio L. *see* **Berrino, G. et al., 2004g:81287**
Calmet, Xavier (*with* Wohlgenannt, Michael) Effective field theories on noncommutative space-time. (English summary) **2004j:81187**
Cantcheff, M. Botta (*with* Minces, Pablo) Duality between non-commutative Yang-Mills-Chern-Simons and non-abelian self-dual models. (English summary) **2004a:81233**
Carmona, José Manuel (*with* Cortés, José Luis; Gamboa, Jorge; Méndez, Fernando) Quantum theory of noncommutative fields. (English summary) **2004c:81289**
— (*with* Cortés, José Luis; Gamboa, Jorge; Méndez, Fernando) Noncommutativity in field space and Lorentz invariance violation. (English summary)
Castorina, Paolo (*with* Zappalà, Dario) Nonuniform symmetry breaking in noncommutative $\lambda\Phi^4$ theory. (English summary) **2004k:81396**
Catterall, Simon *see* **Ambjørn, Jan, 2004i:81248**
Celi, Alessio *see* **Berrino, G. et al., 2004g:81287**
Cerchiai, Bianca Letizia The Seiberg-Witten map for a time-dependent background. (English summary) **2004f:81237**
— *see also* **Brace, Daniel et al., 2004h:81247**
Chaichian, Masud (*with* Demichev, A.; Prešnajder, Peter) Noncommutative field theory: ultraviolet behaviour, topology and symmetry. (English summary) **2004g:81289**
— (*with* Mnatsakanova, M. N.; Tureanu, Anca; Vernov, Yu. S.) Analyticity and forward dispersion relations in noncommutative quantum field theory. (English summary) **2004j:81188**
— (*with* Polyakov, Dimitri; Tureanu, Anca) Non-commutativity and Ramond-Ramond fields. (English summary) **2004b:81225**
— (*with* Montonen, C.; Tureanu, Anca) Tree unitarity and partial wave expansion in noncommutative quantum field theory. (English summary)
— (*with* Nishijima, K.; Tureanu, Anca) Spin-statistics and CPT theorems in noncommutative field theory. (English summary) **2004g:81290**
Chakraborty, Biswajit *see* **Banerjee, Rabin et al., 2004g:81281**
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Chandrasekhar, Bhamidipati (*with* Panigrahi, Prasanta K.) Finite temperature effects on the induced Chern-Simons term in noncommutative geometry. (English summary) **2004b:81226**
Chen, Thomas (*with* Fröhlich, Jürg; Walcher, Johannes) The decay of unstable noncommutative solitons. (English summary) **2004m:81263**
Chepelev, Iouri (*with* Ciocarlie, Calin) A path integral approach to noncommutative superspace. (English summary) **2004f:81238**
Chu, Chong-Sun (*with* Lukierski, Jerzy; Zakrzewski, Wojciech J.) Hermitian analyticity, IR/UV mixing and unitarity of noncommutative field theories. (English summary) **2004c:81290**
Ciccolini, M. L. (*with* Fosco, C. D.; Lopez, Ana) Induced commutative Chern-Simons

term from noncommutativity in planar systems. (English summary) **2004a:81234**
Ciocarlie, Calin *see* **Chepelev, Iouri**, **2004f:81238**
Cortés, José Luis *see* **Carmona, José Manuel et al.**, **2004c:81289**
Das, Ashok (*with* Frenkel, Josif; Pereira, Saulo Hernrique; Taylor, John Clayton) Background field quantization and non-commutative Maxwell theory. (English summary) **2004j:81189**
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Dayi, Ömer F. (*with* Ülker, Kayhan; Yapışkan, Barış) Duals of noncommutative supersymmetric U(1) gauge theory. (English summary) **2004j:81190**
— Noncommutative Maxwell-Chern-Simons theory, duality and a new noncommutative Chern-Simons theory in $d = 3$. (English summary) **2004b:81227**
Demichev, A. *see* **Chaichian, Masud et al.**, **2004g:81289**
Denk, Stefan (*with* Schweda, Manfred) Time ordered perturbation theory for non-local interactions; applications to NCQFT. (English summary) **2004j:81191**
De Pol, Giancarlo *see* **Bassetto, Antonio et al.**, **2004f:81235**
De Risi, Giuseppe (*with* Grignani, Gianluca; Orselli, Marta) Space/time noncommutativity in string theories without background electric field. (English summary) **2004a:81235**
Dimitrijević, M. (*with* Jonke, L.; Möller, L.; Tsouchnika, E.; Wess, Julius; Wohlgenannt, Michael) Deformed field theory on κ-spacetime. (English summary) **2004i:81252**
Dorn, Harald (*with* Sieg, Christoph) Some remarks on Feynman rules for noncommutative gauge theories based on groups $G \neq U(N)$. (English summary) **2004j:81192**
— (*with* Torrielli, Alessandro) Loop equation in two-dimensional noncommutative Yang-Mills theory. (English summary) **2004m:81264**
Dubovskiĭ, S. L. (*with* Sibiryakov, S. M.) Domain walls between gauge theories. (English summary) **2004e:81206**
Duplančić, G. (*with* Schupp, Peter[1]; Trampetić, J.) Comment on triple gauge boson interactions in the non-commutative electroweak sector. (English summary)
Eliashvili, M. (*with* Tsitsishvili, G.) Area preserving transformations in non-commutative space and NCCS theory. (English summary) **2004j:81193**
Fakhri, Hossein (*with* Imaanpur, Ali) Dirac operator on fuzzy AdS_2. (English summary) **2004m:81265**
Feng, Bo[1] *see* **Britto-Pacumio, Ruth A. et al.**, **2004h:81248**
Ferrara, Sergio (*with* Lledó, María A.; Maciá, Oscar) Supersymmetry in noncommutative superspaces. (English summary) **2004j:81194**
— (*with* Sokatchev, Emery) Non-anticommutative $N = 2$ super-Yang-Mills theory with singlet deformation. (English summary) **2004m:81266**
Fidanza, Stéphane Towards an explicit expression of the Seiberg-Witten map at all orders. (English summary) **2004e:81207**
Fischer, Peter (*with* Putz, V.) No UV/IR mixing in unitary space-time non-commutative field theory. (English summary) **2004k:81397**
— *see also* **Bozkaya, H. et al.**, **2004e:81205**
(Fischler, Willy) *see* **Pouliot, Philippe**, **2004b:81235**
Fosco, C. D. *see* **Ciccolini, M. L. et al.**, **2004a:81234**
Franco-Sollova, Filip (*with* Ivanova, T. A.) On noncommutative merons and instantons. (English summary) **2004c:81291**
Frenkel, Josif *see* **Brandt, Fernando T. et al.**, **2004g:81288**; **Das, Ashok et al.**, **2004g:81291** *and* **2004j:81189**
Fröhlich, Jürg *see* **Chen, Thomas et al.**, **2004m:81263**
Gamboa, Jorge *see* **Carmona, José Manuel et al.**, **2004c:81289**
García-Compeán, H. (*with* Moreno, Jorge) Remarks on noncommutative solitons. (English and Spanish summaries) **2004b:81228**
Ghosh, Subir A new interpretation of the Seiberg-Witten map. (English summary) **2004j:81195**
— Energy crisis or a new soliton in the noncommutative CP(1) model? (English summary) **2004k:81398**
— Gauge invariance and duality in the non-commutative plane. (English summary) **2004b:81229**
— Bosonization in the noncommutative plane. (English summary) **2004e:81208**
— Effective field theory for non-commutative spacetime: a toy model. (English summary) **2004h:81249**
Girotti, H. O. (*with* Gomes, Marcelo O. C.; Petrov, A. Yu.; Rivelles, Victor O.; da Silva, A. J.) Spontaneous symmetry breaking in noncommutative field theories. (English summary) **2004h:81250**
Giusto, S. *see* **Becchi, C. et al.**, **2004g:81284**
Gomes, Marcelo O. C. Renormalization in noncommutative field theory. **2004g:81292**
— *see also* **Girotti, H. O. et al.**, **2004h:81250**
(Gomis, Joaquim) *see* **Pouliot, Philippe**, **2004b:81235**
Gopakumar, Rajesh Noncommutative solitons. (English summary) **2004b:81230**
(Gorbatov, Elie) *see* **Pouliot, Philippe**, **2004b:81235**
Gorbunov, I. V. (*with* Sharapov, A. A.) Bosonic string with noncommutative geometry of worldsheet: deformation quantization approach. (English and Russian summaries)
Govindarajan, T. R. (*with* Harikumar, E.) O(3) sigma model with Hopf term on fuzzy sphere. (English summary) **2004m:81267**
Grange, Pascal Derivative corrections from boundary state computations. (English summary) **2004a:81236**
Grassi, Pietro A. *see* **de Boer, Jan et al.**, **2004i:81251**
Grignani, Gianluca *see* **De Risi, Giuseppe et al.**, **2004a:81235**
Grigor'ev, M. A. *see* **Barnich, Glenn et al.**, **2004g:81283**
Grimstrup, J. M. (*with* Wulkenhaar, Raimar) Quantisation of θ-expanded non-commutative QED. (English summary) **2004a:81237**
Grosse, Harald *see* **Bozkaya, H. et al.**, **2004e:81205**
Guisado, Luís *see* **Bertolami, Orfeu**, **2004k:81393**
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Gupta, Kumar S. *see* **Balachandran, Aiyalam P. et al.**, **2004j:81186**
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Imaanpur, Ali *see* **Fakhri, Hossein**, **2004m:81265**
Imbimbo, C. *see* **Becchi, C. et al.**, **2004g:81284**
Iso, Satoshi *see* **Hatsuda, Machiko et al.**, **2004i:81253**
Ito, Katsushi *see* **Araki, Takeo et al.**, **2004i:81249**
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Jing, Jian *see* **Long, Zheng-Wen**, **2004c:81292**
Jonke, L. *see* **Dimitrijević, M. et al.**, **2004i:81252**
Jurčo, Branislav *see* **Aschieri, P. et al.**, **2004k:81391**
Kamani, Davoud Non-commutative superstring worldsheet. (English summary) **2004b:81232**
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Kishimoto, Isao *see* **Bars, Itzhak et al.**, **2004h:81246**
Kitakado, Shinsaku *see* **Otsu, Hideharu et al.**, **2004g:81295**
Kraus, Per (*with* Shigemori, Masaki) Non-commutative instantons and the Seiberg-Witten map. (English summary) **2004d:81148**
Krykhtin, V. A. *see* **Bellucci, Stefano et al.**, **2004f:81236**
Kumar, Kuldeep[2] *see* **Banerjee, Rabin et al.**, **2004g:81281**
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Landi, Giovanni (*with* Lizzi, Fedele; Szabo, Richard J.) A new matrix model for noncommutative field theory. (English summary) **2004k:81400**
Lechtenfeld, Olaf *see* **Horváth, Zalán et al.**, **2004a:81238** *and* **Ivanova, T. A.**, **2004g:81293**
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Long, Zheng-Wen (*with* Jing, Jian) Faddeev-Jackiw approach to the noncommutativity. (English summary) **2004c:81292**
Lopez, Ana *see* **Ciccolini, M. L. et al.**, **2004a:81234**
López, Esperanza From UV/IR mixing to closed strings. (English summary) **2004j:81197**
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Ma, Yong-Liang *see* **Hinchliffe, I. et al.**
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Makeenko, Yu. M. Reduced models and noncommutative gauge theories. (English summary) **2004f:81241**
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Martucci, Luca *see* **Berrino, G. et al., 2004g:81287**
Matsuo, Yutaka *see* **Bars, Itzhak et al., 2004h:81246**
Méndez, Fernando *see* **Carmona, José Manuel et al., 2004c:81289**
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Mikulović, Džo Seiberg-Witten map for superfields on canonically deformed $N = 1$, $d = 4$ superspace. (English summary) **2004m:81270**
Minces, Pablo *see* **Cantcheff, M. Botta, 2004a:81233**
Mnatsakanova, M. N. *see* **Chaichian, Masud et al., 2004j:81188**
Möller, L. *see* **Dimitrijević, M. et al., 2004i:81252**
Montonen, C. *see* **Chaichian, Masud et al.**
Moreno, Enrique F. *see* **Lozano, Gustavo S. et al., 2004k:81401**
Moreno, Jorge *see* **Garcia-Compeán, H., 2004b:81228**
Morita, Katsusada (*with* Okumura, Yoshitaka; Umezawa, Eizou) Lorentz invariance and the unitarity problem in non-commutative field theory. (English summary) **2004m:81271**
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Murugan, Jeff (*with* Adams, Rory) Comments on noncommutative sigma models. (English summary) **2004c:81293**
Nakajima, Tadahito *see* **Takahashi, Hidenori et al., 2004b:81236**
Nascimento, J. R. S. *see* **Mariz, T. et al., 2004k:81402**
Nekrasov, Nikita A. Lectures on open strings, and noncommutative gauge theories. (English summary) **2004j:81198**
van Nieuwenhuizen, Peter *see* **de Boer, Jan et al., 2004i:81251**
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Ohtsuka, Akihisa *see* **Araki, Takeo et al., 2004i:81249**
Okawa, Yuji *see* **Kaminsky, Kirk et al., 2004d:81145**
Okumura, Yoshitaka *see* **Kase, Hiromi et al., 2004d:81146** *and* **Morita, Katsusada et al., 2004m:81271**
Ooguri, Hirosi *see* **Kaminsky, Kirk et al., 2004d:81145**
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Otsu, Hideharu (*with* Sato, Toshiro[2]; Ikemori, Hitoshi; Kitakado, Shinsaku) New BPS solitons in $2 + 1$ dimensional noncommutative $\mathbf{CP}^1$ model. (English summary) **2004g:81295**
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Panigrahi, Prasanta K. *see* **Chandrasekhar, Bhamidipati, 2004b:81226**
Paranjape, Manu B. *see* **Alexanian, Garnik et al., 2004m:81262**
Park, DaeKil *see* **Miao, Yan-Gang et al., 2004h:81253**
Park, Jeong-Hyuck Superfield theory and supermatrix model. (English summary) **2004j:81199**
Pereira, Saulo Hernrique *see* **Brandt, Fernando T. et al., 2004g:81288** *and* **Das, Ashok et al., 2004j:81189**
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Pinzul, A. (*with* Stern, Allen) W_∞ algebras from noncommutative Chern-Simons theory. (English summary) **2004e:81210**
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Polyakov, Dimitri *see* **Chaichian, Masud et al., 2004b:81225**
Polychronakos, Alexios P. The Seiberg-Witten map and topology. (English summary) **2004a:81242**
Pouliot, Philippe Evidence for winding states in noncommutative quantum field theory. **2004b:81235**
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Radovanović, Voja *see* **Burić, Maja, 2004k:81395**
Rajpoot, Subhash *see* **Nishino, Hitoshi, 2004h:81254**
Restuccia, A. *see* **Martín, Isbelia, 2004k:81403**
Rey, Soo-Jong Exact answers to approximate questions—noncommutative dipoles, open Wilson lines and UV-IR duality. (English summary) **2004h:81255**
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Ribeiro, R. F. *see* **Mariz, T. et al., 2004k:81402**
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Rivelles, Victor O. *see* **Girotti, H. O. et al., 2004h:81250**
Rodríguez, María J. *see* **Lozano, Gustavo S. et al., 2004k:81401**
Rückl, Reinhold *see* **Ohl, Thorsten et al., 2004i:81254**
Ruiz Ruiz, Fernando *see* **Brandt, Friedemann et al., 2004k:81394**
Saidi, El Hassan *see* **Bennai, Mohamed, 2004k:81392**
Sako, Akifumi Instanton number of noncommutative $\mathrm{U}(n)$ gauge theory. (English summary) **2004i:81255**
Sato, Toshiro[2] *see* **Otsu, Hideharu et al., 2004g:81295**
van der Schaar, Jan Pieter *see* **Bergshoeff, Eric et al., 2004g:81285** *and* **2004g:81286**
Schalm, Koenraad *see* **de Boer, Jan, 2004i:81250**
Schaposnik, Fidel A. *see* **Lozano, Gustavo S. et al., 2004k:81401**
Schomerus, Volker Open strings and non-commutative geometry. (English summary) **2004j:81200**
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Schweda, Manfred *see* **Bozkaya, H. et al., 2004e:81205** *and* **Denk, Stefan, 2004j:81191**
Seiberg, Nathan Noncommutative superspace, $\mathcal{N} = 1/2$ supersymmetry, field theory and string theory. (English summary) **2004k:81406**
Sharapov, A. A. *see* **Gorbunov, I. V.**
Sheikh-Jabbari, Mohammad M. Noncommutative string and field theories, a review of the status. (English summary) **2004g:81297**
Shigemori, Masaki *see* **Kraus, Per, 2004d:81148**
Sibiryakov, S. M. *see* **Dubovskiĭ, S. L., 2004e:81206**
Sibold, Klaus *see* **Liao, Yi**[2]**, 2004h:81252**
Sieg, Christoph *see* **Dorn, Harald, 2004j:81192**
da Silva, A. J. *see* **Girotti, H. O. et al., 2004h:81250**
Singh, Harvendra Note on (D6, D8) bound state, massive duality and non-commutativity. (English summary) **2004k:81407**
Slavnov, A. A. Consistent non-commutative quantum gauge theories? (English summary) **2004e:81211**
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— *see also* **Errata: "UV divergence-free QFT on noncommutative plane"**
Sołhichiu, Corneliu Notes on the dynamics of noncommutative lumps. (English summary) **2004c:81295**
— *see also* **Acatrinei, Ciprian**
Sokatchev, Emery *see* **Ferrara, Sergio, 2004m:81266**
Spallucci, Euro *see* **Smailagic, Anais, 2004k:81408** *and* **Errata: "UV divergence-free QFT on noncommutative plane"**
Steinacker, Harold Quantized gauge theory on the fuzzy sphere as random matrix model. (English summary) **2004k:81409**
Stern, Allen *see* **Pinzul, A., 2004e:81210** *and* **2004k:81404**
Stichel, P. C. *see* **Lukierski, Jerzy et al., 2004g:81294** *and* **Horváthy, P. A. et al., 2004h:81251**
Sugino, Fumihiko *see* **Nishimura, Jun**[1] **et al., 2004c:81294**
Sundell, P. *see* **Bergshoeff, Eric et al., 2004g:81285** *and* **2004g:81286**
Suryanarayana, Nemani V. *see* **Mukhi, Sunil, 2004a:81241**
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— *see also* **Paniak, Lori D., 2004f:81242** *and* **Landi, Giovanni et al., 2004k:81400**
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Tomino, Dan $N = 2$ 3d-matrix integral with Myers term. (English summary) **2004m:81272**
Torrielli, Alessandro Unitarity of noncommutative field theories from string theory. (English summary) **2004k:81411**
— Cutting rules and perturbative unitarity of noncommutative electric-type field theories from string theory. (English summary) **2004e:81213**
— *see also* **Dorn, Harald, 2004m:81264**
Trampetić, J. *see* **Duplančić, G. et al.**
Tsitsishvili, G. *see* **Eliashvili, M., 2004j:81193**
Tsouchnika, E. *see* **Dimitrijević, M. et al., 2004i:81252**
Tsutsui, Izumi *see* **Abe, Yasumi et al., 2004m:81261**
Tureanu, Anca *see* **Chaichian, Masud et al., 2004b:81225; 2004g:81290** *and* **2004j:81188**
Uhlmann, Sebastian *see* **Ihl, Matthias, 2004k:81399**
Ülker, Kayhan *see* **Dayi, Ömer F. et al., 2004j:81190**
Umetsu, Hiroshi *see* **Hatsuda, Machiko et al., 2004i:81253**
Umezawa, Eizou *see* **Kase, Hiromi et al., 2004d:81146** *and* **Morita, Katsusada et al., 2004m:81271**
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Vaidya, Sachindeo (*with* Ydri, Badis) On the origin of the UV-IR mixing in non-commutative matrix geometry. (English summary) **2004h:81257**
Vázquez-Mozo, Miguel A. *see* **Nishimura, Jun**[1]**, 2004b:81234**
Vernov, Yu. S. *see* **Chaichian, Masud et al., 2004j:81188**
Vian, Federica *see* **Bassetto, Antonio et al., 2004f:81235**
Vicini, Alessandro *see* **Berrino, G. et al., 2004g:81287**
Vitale, Patrizia *see* **Lizzi, Fedele et al.**
Walcher, Johannes *see* **Chen, Thomas et al., 2004m:81263**
Wess, Julius *see* **Dimitrijević, M. et al., 2004i:81252** *and* **Aschieri, P. et al., 2004k:81391**
Wohlgenannt, Michael *see* **Dimitrijević, M. et al., 2004i:81252** *and* **Calmet, Xavier, 2004j:81187**

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Wulkenhaar, Raimar *see* **Grimstrup, J. M., 2004a:81237**; **Bozkaya, H. et al., 2004e:81205** *and* **Putz, V., 2004f:81243**
Xiong, Xiaozhen Quantization of noncommutative scalar solitons at finite θ. (English summary) **2004a:81244**
Yang, Hyun Seok *see* **Kim, Keun-Young et al., 2004a:81239**
Yapışkan, Barış *see* **Dayi, Ömer F. et al., 2004j:81190**
Ydri, Badis *see* **Vaidya, Sachindeo, 2004h:81257**
Yee, Jae Hyung *see* **Rim, Chaiho, 2004k:81405**
Yee, Jung-Tay *see* **Rey, Soo-Jong, 2004h:81256** *and* **Terashima, Seiji, 2004k:81410**
Yoshida, Kensuke *see* **Amelino-Camelia, Giovanni et al.**
Yu, Tian[1] (*with* Zhu, Chuan-Jie) Remarks on the noncommutative Atiyah-Drinfeld-Hitchin-Manin construction. (English summary) **2004h:81259**
Zakrzewski, Wojciech J. *see* **Chu, Chong-Sun et al., 2004c:81290** *and* **Lukierski, Jerzy et al., 2004g:81294**
Zampini, Alessandro *see* **Lizzi, Fedele et al.**
Zappalà, Dario *see* **Castorina, Paolo, 2004k:81396**
Zeiner, Jörg *see* **Ohl, Thorsten et al., 2004i:81254**
Zhu, Chuan-Jie *see* **Yu, Tian[1], 2004h:81259**
Zhuang, Ting-Liang *see* **Wu, Yong Shi[1], 2004h:81258**
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"UV divergence-free QFT on noncommutative plane" Corrigendum: "UV divergence-free QFT on noncommutative plane" [J. Phys. A **36** (2003), no. 39, L517–L521] by A. Smailagic and E. Spallucci.

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Arfaei, H. *see* **Ardalan, F. et al., 2004c:83113**
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Trodden, Mark *see* **Bowick, Mark et al.**, **2004k:81412**
Vitiello, Giuseppe *see* **Iorio, A. et al.**, (**2004d:82002**)
Zhang, Peng-Fei *see* **Huang, Shi-Zhong et al.**
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81Vxx Applications to specific physical systems

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81V05 Strong interaction, including quantum chromodynamics

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Rupp, Christian W. *see* **Klinkhamer, Frans R., 2004m:81281**
Salo, Petri *see* **Hietarinta, Jarmo et al.**
Sazdjian, H. *see* **Jugeau, F.**
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Greene, Brian R. *see* **Easther, Richard et al.**

Grena, Roberto *see* **Auzzi, Roberto et al., 2004b:81202**

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Kapustin, Anton *see* **Cherkis, Sergey A., 2004g:53029**

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Sonnenschein, Jacob *see* **Armoni, Adi et al., 2004b:81140**

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Tchrakian, Tigran D. H. *see* **Paturyan, Vanush, 2004k:58028**

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Yung, A. V. *see* **Shifman, M., 2004h:81210** *and* **Auzzi, Roberto et al., 2004i:81229**

Zhang, Jian-Bo *see* **Leinweber, Derek B. et al.**

81V10 Electromagnetic interaction; quantum electrodynamics

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Herbut, Igor F. *see* **Case, Matthew J. et al.**
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Hiroshima, Fumio Embedded eigenvalues, localization and asymptotics of quantum field models: a functional integral approach. (English summary) **2004d:81155**
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Jentschura, Ulrich D. Radiative energy shifts induced by local potentials. (English summary) **2004f:81255**
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Kleinert, Hagen *see* **Pelster, Axel et al.**, **2004b:81249**
Krivchenkov, I. V. *see* **Denisov, V. I. et al.**, **2004m:81283**
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Morchio, G. *see* **Löffelholz, J. et al.**, **2004i:81267**
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Reinhardt, Joachim *see* **Greiner, Walter**, **2004h:81270**
Riquer, Verónica *see* **Moshinsky, Marcos**, **2004a:81259**
Robert, Jacques *see* **Guillot, Jean-Claude**, **2004c:81309**
Rojas, Moises *see* **Carrion, Hector Leny et al.**, **2004b:81244**
Sancho, Pedro Fields of charged particles in the causal theory. (English and French summaries) **2004a:81261**
Santangelo, E. M. *see* **Beneventano, C. G.**, **2004b:81243**
Seiringer, Robert *see* **Hainzl, Christian**, **2004g:81309**
Seradjeh, Babak H. *see* **Case, Matthew J. et al.**
Shaposhnikov, Mikhail *see* **Randjbar-Daemi, Seif**, **2004d:81157**
Shimomura, Akihiro Modified wave operators for Maxwell-Schrödinger equations in three space dimensions. (English summary) **2004i:81269**
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Ślusarczyk, M. (*with* Wereszczyński, A.) On $(2+1)$ dimensional topologically massive non-linear electrodynamics. (English summary) **2004e:81222**
Spallucci, Euro *see* **Guendelman, Eduardo I. et al.**
Spavieri, Gianfranco Classical Lagrangian and quantum phase of the dipole. (English summary) **2004c:81312**
Spehler, D. *see* **Marques, G. C.**, **2004g:81310**
Staruszkiewicz, Andrzej Quantum mechanics of the electric charge and its connection with the problem of interpretation of quantum mechanics. (English summary) (*see* **2004h:81004**)
Steinmann, Othmar What is the magnetic moment of the electron? (English summary) **2004j:81214**
Stepanovskiĭ, Yu. P. *see* **Afanas'ev, G. N. et al.**, **2004j:81211**
Strocchi, F. *see* **Löffelholz, J. et al.**, **2004i:81267**
Sundman, Stig Resummation of a set of gauge-invariant QED diagrams. (English summary) **2004i:81270**
Terno, Daniel R. *see* **Peres, Asher**, **2004h:81271**
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Tomaschitz, Roman Superluminal radiation by uniformly moving charges. (English summary) **2004c:81314**
Toppan, Francesco *see* **Carrion, Hector Leny et al.**, **2004b:81244**
de la Torre Mayado, M. *see* **Mateos Guilarte, Juan**, **2004c:81310**
Uleĭskiĭ, M. Yu. *see* **Prants, S. V.**, **2004c:81311**
Urrestilla, Jon *see* **Achúcarro, A. et al.**
Varlamov, Vadim V. About algebraic foundations of Majorana-Oppenheimer quantum electrodynamics and de Broglie-Jordan neutrino theory of light. (English summary) **2004e:81223**
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Vougalter, Vitali *see* **Chen, Thomas et al.**, **2004b:81245**
Vugal'ter, S. A. *see* **Chen, Thomas et al.**, **2004b:81245**
Wereszczyński, A. *see* **Ślusarczyk, M.**, **2004e:81222**
Woodard, Richard P. Resolving the $p^+ = 0$ ambiguity in a homogeneous electric background. (English summary) **2004e:81224**
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Donoghue, John F. *see* **Bjerrum-Bohr, N. E. J. et al., 2004k:83052**

Dragović, Branko G. *see* **Djordjević, Goran S. et al., 2004c:83155**

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Filippov, A. T. (*with* Maison, Dieter) Horizons in $(1 + 1)$-dimensional dilaton gravity coupled to matter. (English summary) **2004b:83090**

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Fukuma, Masafumi (*with* Miwa, Akitsugu; Takahashi, Kazuyoshi[2]) Holographic entropy bound in two-dimensional gravity. (English summary) **2004m:83066**

Garay, Luis J. (*with* Mena Marugán, Guillermo A.) Immirzi ambiguity, boosts and conformal frames for black holes. (English summary) **2004d:83036**

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Gubser, Steven S. (*with* Ozakin, Arkadas) Universality classes for horizon instabilities. (English summary) **2004k:83145**

Han, Yiwen *see* **Liu, Wen Biao et al., 2004d:83040**

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Hebecker, Arthur (*with* Wetterich, Christof) Spinor gravity. (English summary) **2004k:83079**
Hewett, JoAnne L. *see* **Davoudiasl, Hooman et al., 2004g:83093**
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Hod, Shahar Kerr black-hole quasinormal frequencies. (English summary) **2004f:83040**
Holstein, Barry R. *see* **Bjerrum-Bohr, N. E. J. et al., 2004k:83052**
Hossain, Golam Mortuza The Hubble operator in isotropic loop quantum cosmology. (English summary) **2004m:83035**
Houart, Laurent *see* **Englert, François et al., 2004h:83082**
Howls, C. J. *see* **Andersson, Nils, 2004m:83045**
Iofa, Mikhail Z. Magnetic black holes in string theory. (English summary) **2004f:83085**
Iorgov, Nikolai Wigner-Eckart theorem for an algebra related to quantum gravity. (English, Russian and Ukrainian summaries) **2004b:81077**
Isham, C. J. Some reflections on the status of conventional quantum theory when applied to quantum gravity.
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Janssen, Bert (*with* Lozano, Yolanda) Non-abelian giant gravitons. (English summary) **2004h:83085**
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Jejjala, Vishnu (*with* Leigh, Robert G.; Minic, Djordje) Deconstruction and holography. (English summary) **2004e:83074**
Khovanskaya, O. *see* **Alexeyev, S. et al., 2004d:83033**
Kirchbach, Mariana *see* **Ahluwalia, Dharam Vir et al., 2004e:83048**
Kirillov, Aleksandr Albertovich Violation of the Pauli principle and dimension of the universe at very large distances. (English summary) **2004b:83161**
Kolanović, Marko (*with* Porrati, Massimo; Rombouts, Jan-Willem) Regularization of brane induced gravity. (English summary) **2004j:83107**
Kowalski-Glikman, Jerzy (*with* Nowak, Sebastian[2]) Non-commutative space-time of doubly special relativity theories. (English summary) **2004c:83072**
Kraemmer, U. (*with* Rebhan, Anton) Advances in perturbative thermal field theory. (English summary) **2004k:81413**
Krasnov, Kirill $\Lambda < 0$ quantum gravity in $2 + 1$ dimensions. I. Quantum states and stringy S-matrix. (English summary) **2004j:83082**
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Lan, Dang Mong Quantum potential applied in the coupling of classical gravity and quantum mechanics. (English summary)
Lee, Chi-Wei Herbert (*with* Mann, Robert) String bit models of two-dimensional quantum gravity coupled with matter. (English summary) **2004j:83084**
Leigh, Robert G. *see* **Jejjala, Vishnu et al., 2004e:83074**
Lippert, Matthew *see* **Freivogel, Ben et al., 2004b:83128**
Liu, James T. *see* **Duff, Michael J. et al., 2004h:83080**
Liu, Wen Biao (*with* Han, Yiwen; Zhou, Zhou'an) Black hole entropy inside and outside the brick wall. (English summary) **2004d:83040**
Livine, Etera R. *see* **Alexandrov, Sergei Yu., 2004c:83039** *and* **Freidel, Laurent et al., 2004d:83025**
Lozano, Enrique *see* **Macías, Alfredo, 2004e:83075**
Lozano, Yolanda *see* **Janssen, Bert, 2004c:83126** *and* **2004h:83085**
Macesanu, C. (*with* Mitov, A.; Nandi, Satya) Gravity and matter in extra dimensions. (English summary) **2004k:83119**
Machado, Fabiano R. *see* **Brandt, Fernando T. et al., 2004h:83032**
Macías, Alfredo (*with* Lozano, Enrique) Plane-fronted waves from 5D Chern-Simons gravity. (English summary) **2004e:83075**
Maison, Dieter *see* **Filippov, A. T., 2004b:83090**
Major, Seth *see* **Hinterleitner, Franz**
Mallios, Anastasios (*with* Raptis, Ioannis) Finitary, causal, and quantal vacuum Einstein gravity. (English summary) **2004k:83047**
Mann, Robert *see* **Lee, Chi-Wei Herbert, 2004j:83084**
Marín, M. C. *see* **Nieto, J. A., 2004k:83162**
McDonald, Patrick *see* **Ash, Avner, 2004c:83040**
Mel'nikov, V. N. *see* **Ivashchuk, Vladimir D. et al., 2004j:83104**
Mena Marugán, Guillermo A. *see* **Garay, Luis J., 2004d:83036**
Meusburger, C. (*with* Schroers, Bernd J.) Poisson structure and symmetry in the Chern-Simons formulation of $(2 + 1)$-dimensional gravity. (English summary) **2004d:83053**
Miao, Yan-Gang *see* **Park, DaeKil et al., 2004m:83079**
Minic, Djordje (*with* Tze, Chia-Hsiung) Background independent quantum mechanics and gravity. (English summary) **2004k:83048**
— *see also* **Jejjala, Vishnu et al., 2004e:83074**
Mitov, A. *see* **Macesanu, C. et al., 2004k:83119**
Miwa, Akitsugu *see* **Fukuma, Masafumi et al., 2004m:83066**
Montemayor, R. *see* **Casini, H. et al., 2004k:83034**
Morales Técotl, Hugo A. *see* **Alfaro, Jorge et al., 2004j:83045**
Mostafazadeh, Ali Quantum mechanics of Klein-Gordon-type fields and quantum cosmology. (English summary) **2004k:83049**
Muslih, Sami I. Path integral quantization of 2D-gravity. (English summary)
Nandi, Satya *see* **Macesanu, C. et al., 2004k:83119**
Nešić, Ljubiša *see* **Djordjević, Goran S. et al., 2004c:83155**
Nesterov, D. V. *see* **Barvinskiĭ, A. O., 2004f:83022**
Neves, R. P. *see* **Novello, M., 2004d:83101**
Niedermaier, Max Renormalization and asymptotic safety in truncated quantum Einstein gravity. (English summary) **2004j:83050**
— Dimensionally reduced gravity theories are asymptotically safe. (English summary) **2004h:83036**
Nieto, J. A. (*with* Marín, M. C.) Search for a "gravitoid" theory. (English summary) **2004k:83162**
Nojiri, Shin'ichi (*with* Odintsov, Sergei D.) On the way to brane new world. (English and Russian summaries) **2004e:83079**
Noui, K. (*with* Roche, Ph.) Cosmological deformation of Lorentzian spin foam models. (English summary) **2004f:83026**
Novello, M. (*with* Neves, R. P.) The mass of the graviton and the cosmological constant. (English summary) **2004d:83101**
Nowak, Sebastian[2] *see* **Kowalski-Glikman, Jerzy, 2004c:83072**
Odintsov, Sergei D. *see* **Nojiri, Shin'ichi, 2004e:83079**
Oeckl, Robert A "general boundary" formulation for quantum mechanics and quantum gravity. (English summary) **2004m:81011**
Ozakin, Arkadas *see* **Gubser, Steven S., 2004k:83145**
Padmanabhan, Thanu Why gravity has no choice: bulk spacetime dynamics is dictated by information entanglement across horizons. (English summary) **2004j:83070**
Parameswaran, Susha L. *see* **Aghababaie, Yashar et al.**
Park, DaeKil (*with* Tamaryan, S.; Miao, Yan-Gang) Newton law in DGP brane-world with semi-infinite extra dimension. (English summary) **2004m:83079**
Penrose, Roger Twistor geometry of conformal infinity. (English summary) **2004i:83081**
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Pereira, J. G. *see* **Aldrovandi, R. et al., 2004j:83087**
Perez, Alejandro Corrections to: "Spin foam quantization of SO(4) Plebański's action" [Adv. Theor. Math. Phys. **5** (2001), no. 5, 947–968; MR 2003g:83034]. (English summary) **2004b:83026**
— Spin foam models for quantum gravity. (English summary) **2004c:83046**
Porrati, Massimo Higgs phenomenon for the graviton in AdS space. (English summary) **2004f:81164**
— *see also* **Kolanović, Marko et al., 2004j:83107**
Quevedo, Fernando *see* **Aghababaie, Yashar et al.**
Randall, Lisa *see* **Arkani-Hamed, Nima et al., 2004g:83146**
Raptis, Ioannis *see* **Mallios, Anastasios, 2004k:83047**
Rebhan, Anton *see* **Kraemmer, U., 2004k:81413**
Reyes, M. *see* **Alfaro, Jorge et al., 2004j:83045**
Rizzo, Thomas Gerard *see* **Davoudiasl, Hooman et al., 2004g:83093**
Roche, Ph. *see* **Noui, K., 2004f:83026**
Rombouts, Jan-Willem *see* **Kolanović, Marko et al., 2004j:83107**
Ross, Graham G. Probing physics at the Planck scale. (English summary)
Rovelli, Carlo *see* **Freidel, Laurent et al., 2004d:83025**
Sati, Hisham *see* **Duff, Michael J. et al., 2004h:83080**
Sazhin, M. *see* **Alexeyev, S. et al., 2004d:83033**
Schroers, Bernd J. *see* **Meusburger, C., 2004d:83053**
Selivanov, A. B. *see* **Ivashchuk, Vladimir D. et al., 2004j:83104**
Singleton, Douglas Alexander *see* **Dzhunushaliev, Vladimir, 2004h:83033**
Sloth, Martin S. *see* **Hassan, S. F.**
Smilga, Andrei V. Quantum gravity as Escher's dragon. (Russian) **2004j:83053**
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Sokolowski, Leszek M. Quantum spacetime and the problem of time in quantum gravity. (English summary) **2004b:83045**
Sudarsky, Daniel *see* **Chryssomalakos, Chryssomalis, 2004b:83095**
Takahashi, Kazuyoshi[2] *see* **Fukuma, Masafumi et al., 2004m:83066**
Tamaryan, S. *see* **Park, DaeKil et al., 2004m:83079**
Troost, Jan (*with* Tsuchiya, Asato) Three-dimensional black hole entropy. (English summary) **2004i:83079**
Tsuchiya, Asato *see* **Troost, Jan, 2004i:83079**
Turner, Nicolaus W. P. *see* **Dunbar, David C., 2004b:83036**
Tze, Chia-Hsiung *see* **Minic, Djordje, 2004k:83048**
Urrutia, Luis F. *see* **Alfaro, Jorge et al., 2004j:83045** *and* **Casini, H. et al., 2004k:83034**
Valtancoli, P. Matrix model for noncommutative gravity and gravitational instantons. (English summary) **2004k:83082**
— Gravity on a fuzzy sphere. (English summary) **2004j:83077**
Vandersloot, Kevin *see* **Bojowald, Martin, 2004i:83051**
Vergeles, S. N. Discrete gravity, the problem of fermion state doubling, and quantum anomalies. (Russian. Russian summary) **2004j:83038**
Veselov, A. I. (*with* Zubkov, M. A.) 10D Euclidean dynamical triangulations. (English summary)
Visser, Matt The quantum physics of chronology protection.
Vu, K. H. *see* **Aldrovandi, R. et al., 2004j:83087**
Wanas, M. I. Effect of spin-gravity interaction on the Chandrasekhar limit. (English and Russian summaries) **2004j:83056**
Warner, Nicholas P. Gauged supergravity and holographic field theory.
West, Peter *see* **Englert, François et al., 2004h:83082**
Wetterich, Christof *see* **Hebecker, Arthur, 2004k:83079**
Witten, Edward Quantum gravity in de Sitter space. (English summary) **2004h:83038**
Wu, Ning Unification of non-abelian SU(N) gauge theory and gravitational gauge theory. (English summary) **2004c:81322**
Zhou, Zhou'an *see* **Liu, Wen Biao et al., 2004d:83040**
Zubkov, M. A. *see* **Veselov, A. I.**

81V22 Unified theories

del Aguila, Francisco (*with* Pérez-Victoria, Manuel; Santiago, José) Bulk fields with general brane kinetic terms. (English summary) **2004c:81317**
Antoniadis, Ignatios (*with* Kiritsis, Elias; Rizos, J.; Tomaras, Theodore N.) D-branes and the standard model. (English summary) **2004d:81161**
Arnowitt, R. (*with* Dutta, Bhaskar; Hu, Bo[2]) Quark, lepton and neutrino masses in Horava-Witten inspired models. (English summary) (*see* **2004d:81001**)
Babu, K. S. (*with* Gogoladze, I. G.; Wang, Kai[5]) Natural R-parity, μ-term, and fermion mass hierarchy from discrete gauge symmetries. (English summary) **2004c:81318**
Bailin, David (*with* Kraniotis, Georgios V.; Love, Alexander) Standard-like models from intersecting D4-branes. (English summary) **2004e:81225**
Baylis, William E. *see* **Trayling, Greg, 2004k:81432**

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Blumenhagen, Ralph (*with* Lüst, Dieter; Stieberger, Stephan) Gauge unification in supersymmetric intersecting brane worlds. (English summary) **2004g:81312**
Bolokhov, S. V. (*with* Vladimirov, Yu. S.) An algebraic approach to the description of electroweak and strong interactions. (English and Russian summaries)
Burdman, Gustavo (*with* Nomura, Yasunori) Unification of Higgs and gauge fields in five dimensions. (English summary) **2004b:81251**
Chacko, Zacharia (*with* Pontón, Eduardo) Bulk gauge fields in warped space and localized supersymmetry breaking. (English summary)
Chaichian, Masud (*with* Prešnajder, Peter; Sheikh-Jabbari, Mohammad M.; Tureanu, Anca) Non-commutative standard model: model building. (English summary) **2004h:81272**
Cleaver, Gerald B. (*with* Faraggi, Alon E.; Nooij, Sander E. M.) NAHE-based string models with $SU(4) \times SU(2) \times U(1)$ $SO(10)$ subgroup. (English summary) **2004k:81430**
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Desai, Virendra *see* **Cleaver, Gerald B. et al., 2004c:81319**
Dolan, Brian P. Non-commutative complex projective spaces and the standard model. (English summary)
Dominici, Daniele (*with* Grzadkowski, Bohdan; Gunion, John F.; Toharia, Manuel) The scalar sector of the Randall-Sundrum model. (English summary) **2004i:81271**
Dutta, Bhaskar *see* **Arnowitt, R. et al., (2004d:81001)**
Enqvist, Kari (*with* Jokinen, Asko; Kasuya, Shinta; Mazumdar, Anupam) Minimal supersymmetric standard model flat direction as a curvaton. (English summary)
Evans, Myron Wyn The equations of grand unified field theory in terms of the Maurer-Cartan structure relations of differential geometry. (English summary)
Faraggi, Alon E. *see* **Cleaver, Gerald B. et al., 2004k:81430**
Frère, Jean-Marie (*with* Libanov, M. V.; Nugaev, E. Ya.; Troitsky, S. V.) Fermions in the vortex background on a sphere. (English summary)
Gherghetta, Tony (*with* Pomarol, Alex) The standard model partly supersymmetric. (English summary)
Gogoladze, I. G. (*with* Mimura, Yukihiro; Nandi, Satya) Orbifold breaking of 3-3-1 model. (English summary) **2004c:81320**
— *see also* **Babu, K. S. et al., 2004c:81318**
Grzadkowski, Bohdan *see* **Dominici, Daniele et al., 2004i:81271**
Gunion, John F. *see* **Dominici, Daniele et al., 2004i:81271**
Hanson, Heather Ann *see* **Cleaver, Gerald B. et al., 2004c:81319**
Hebecker, Arthur (*with* Ratz, Michael[2]) Group-theoretical aspects of orbifold and conifold GUTs. (English summary) **2004h:81273**
— Grand unification in the projective plane. (English summary)
't Hooft, Gerard The hidden information in the Standard Model. (English summary) (*see* **2004i:00019**)
— The hidden information in the standard model. (English summary) (*see* **2004j:00037**)
Hu, Bo[2] *see* **Arnowitt, R. et al., (2004d:81001)**
Jokinen, Asko *see* **Enqvist, Kari et al.**
Kasuya, Shinta *see* **Enqvist, Kari et al.**
Kim, Hyung Do (*with* Raby, Stuart) Unification in 5D SO(10). (English summary) **2004b:81252**
King, Stephen F. *see* **Blažek, Tomáš et al.**
Kiritsis, Elias *see* **Antoniadis, Ignatios et al., 2004d:81161**
Klebanov, Igor R. (*with* Witten, Edward) Proton decay in intersecting D-brane models. (English summary) **2004k:81431**
Konishi, Kenichi (*with* Ricco, Antonio) Calculating gluino condensates in $\mathcal{N} = 1$ SYM from Seiberg-Witten curves. (English summary)
Kraniotis, Georgios V. *see* **Bailin, David et al., 2004e:81225**
Królikowski, Wojciech Clifford algebra implying three fermion generations revisited. **2004c:81321**
Libanov, M. V. *see* **Frère, Jean-Marie et al.**
Love, Alexander *see* **Bailin, David et al., 2004e:81225**
Lüst, Dieter *see* **Blumenhagen, Ralph et al., 2004g:81312**
Maekawa, Nobuhiro (*with* Yamashita, Toshifumi) Simple E_6 unification with anomalous $U(1)_A$ symmetry. (English summary)
Mazumdar, Anupam *see* **Enqvist, Kari et al.**
Mimura, Yukihiro *see* **Gogoladze, I. G. et al., 2004c:81320**
Nandi, Satya *see* **Gogoladze, I. G. et al., 2004c:81320**
(Nilles, Hans Peter) *see* **Polonsky, Nir, 2004e:81226**
Nomura, Yasunori *see* **Burdman, Gustavo, 2004b:81251**
Nooij, Sander E. M. *see* **Cleaver, Gerald B. et al., 2004k:81430**
Nugaev, E. Ya. *see* **Frère, Jean-Marie et al.**
Oyibo, Gabriel A. ★ Grand unified theorem: discovery of the theory of everything and the fundamental building block of quantum theory.
Parry, Jonathan K. *see* **Blažek, Tomáš et al.**
Pérez-Victoria, Manuel *see* **del Aguila, Francisco et al., 2004c:81317**
Perkins, John Thomas *see* **Cleaver, Gerald B. et al., 2004c:81319**
Polonsky, Nir ★ Supersymmetry: structure and phenomena. (English summary) **2004e:81226**
Pomarol, Alex *see* **Gherghetta, Tony**
Pontón, Eduardo *see* **Chacko, Zacharia**
Prešnajder, Peter *see* **Chaichian, Masud et al., 2004h:81272**
Raby, Stuart *see* **Kim, Hyung Do, 2004b:81252**
Ratz, Michael[2] *see* **Hebecker, Arthur, 2004b:81273**
Ricco, Antonio *see* **Konishi, Kenichi**
Rizos, J. *see* **Antoniadis, Ignatios et al., 2004d:81161**
Robbins, David D. *see* **Cleaver, Gerald B. et al., 2004c:81319**
Ross, Graham G. Probing physics at the Planck scale. (English summary)
Santiago, José *see* **del Aguila, Francisco et al., 2004c:81317**
Sheikh-Jabbari, Mohammad M. *see* **Chaichian, Masud et al., 2004h:81272**
Shields, Sharon M. *see* **Cleaver, Gerald B. et al., 2004c:81319**
Silva-Marcos, Joaquim I. Symmetries, large leptonic mixing and a fourth generation. (English summary) **2004a:81263**
Stieberger, Stephan *see* **Blumenhagen, Ralph et al., 2004g:81312**
Tarzi, S. Exclusion principles as restricted permutation symmetries. (English summary) **2004i:81272**
Toharia, Manuel *see* **Dominici, Daniele et al., 2004i:81271**
Tomaras, Theodore N. *see* **Antoniadis, Ignatios et al., 2004d:81161**
Trayling, Greg (*with* Baylis, William E.) The Cl_7 approach to the Standard Model. (English summary) **2004k:81432**
Troitsky, S. V. *see* **Frère, Jean-Marie et al.**
Tureanu, Anca *see* **Chaichian, Masud et al., 2004h:81272**
Vladimirov, Yu. S. *see* **Bolokhov, S. V.**
Wang, Kai[5] *see* **Babu, K. S. et al., 2004c:81318**
Witten, Edward *see* **Klebanov, Igor R., 2004k:81431**
Wu, Ning Unification of non-abelian $SU(N)$ gauge theory and gravitational gauge theory. (English summary) **2004c:81322**
Yamashita, Toshifumi *see* **Maekawa, Nobuhiro**

Items listed otherwise than by author

Lecture Notes in Physics. Monographs *see* **Polonsky, Nir, 2004e:81226**

Items with secondary classifications in 81V22

Anisimov, Alexey (*with* Dine, Michael; Graesser, Michael; Thomas, Scott) Brane world SUSY breaking from string/M-theory. (English summary) **2004c:81185**
Arkani-Hamed, Nima (*with* Gregoire, Thomas; Wacker, Jacob G.; Cohen, Andrew Glen) Phenomenology of electroweak symmetry breaking from theory space. (English summary) **2004a:81262**
Asaka, Takehiko (*with* Buchmüller, W.; Covi, L.) Bulk and brane anomalies in six dimensions. (English summary) **2004c:81253**
Aschieri, P. (*with* Jurčo, Branislav; Schupp, Peter[1]; Wess, Julius) Noncommutative GUTs, Standard Model and C, P, T. (English summary) **2004k:81391**
Axenides, Minos (*with* Floratos, Emmanuel; Kokorelis, Christos) SU(5) unified theories from intersecting branes. (English summary) **2004k:81249**
Bailin, David Standard-like models from D-branes. (English summary) (*see* **2004d:81001**)
— (*with* Kraniotis, Georgios V.; Love, Alexander) Intersecting D5-brane models with massive vector-like leptons. (English summary) **2004g:81179**
Bjorken, James D. Cosmology and the standard model. (English summary) **2004c:83153**
Buchmüller, W. *see* **Asaka, Takehiko et al., 2004c:81253**
Burgess, Clifford P. (*with* Grandi, Nicolas Esteban; Quevedo, Fernando; Rabadán, Raúl) D-brane chemistry. (English summary) **2004m:81181**
Cleaver, Gerald B. Parameter space investigations of free fermionic heterotic models. (English summary) (*see* **2004d:81001**)
Cohen, Andrew Glen *see* **Arkani-Hamed, Nima et al., 2004a:81262**
Cohen, Marcus S. Spin geometry and grand unification. (English summary) **2004a:81117**
Covi, L. *see* **Asaka, Takehiko et al., 2004c:81253**
Cremades, Daniel (*with* Ibáñez, Luis E.; Marchesano, Fernando) SUSY quivers, intersecting branes and the modest hierarchy problem. (English summary) **2004a:81221**
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Martínez, Roberto *see* **Díaz, Rodolfo A. et al., 2004d:81123**

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Mira Martínez, Jesús María *see* **Díaz, Rodolfo A. et al., 2004d:81123**

Nakano, Hiroaki *see* **Kobayashi, Tatsuo et al., 2004b:81173**

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Frolov, Andrei V. *see* **Felder, Gary N. et al., 2004k:83105**
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Georgi, Howard *see* **Arkani-Hamed, Nima et al., 2004e:81089**
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Herrera, Ramón *see* **del Campo, Sergio**
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Kersting, N. *see* **Hinchliffe, I. et al.**
Kofman, Lev *see* **Felder, Gary N. et al., 2004k:83105**
Konishi, Kenichi *see* **Bolognesi, Stefano, 2004a:81219**
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Laugier, Alexandre *see* **Antoniadis, Ignatios et al., 2004d:81050**
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Ma, Yong-Liang *see* **Hinchliffe, I. et al.**
Magueijo, João New varying speed of light theories. (English summary) **2004i:83094**
Maillard, T. *see* **Antoniadis, Ignatios et al., 2004d:81050**
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Maraner, Paolo Elementary particles and spin representations. (English summary)
Masip, Manuel *see* **Abel, Steven Adam et al., 2004e:81107**
Mazumdar, Anupam *see* **Enqvist, Kari, 2004c:83157**
Milhano, J. Guilherme *see* **Gripaios, B. M.**
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(Nilles, Hans Peter) *see* **Polonsky, Nir, 2004e:81226**
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Pedrini, Bill *see* **Fröhlich, Jürg, (2004e:82003)**
Polonsky, Nir ★ Supersymmetry: structure and phenomena. (English summary) **2004e:81226**
Prokushkin, S. F. *see* **Kallosh, Renata et al., 2004b:83148**
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Santiago, José *see* **Abel, Steven Adam et al., 2004e:81107**
Sen, Anjan Ananda *see* **Bento, M. C. et al., 2004b:83107**
Shifman, M. *see* **Armoni, Adi**
Shmakova, Marina *see* **Kallosh, Renata et al., 2004b:83148**
Tanaka, Takahiro *see* **Flachi, Antonino et al., 2004k:83144**
Urrutia, Luis F. *see* **Alfaro, Jorge et al., 2004a:83020**
Vayonakis, Costas E. *see* **Gioutsos, Dimitris V., 2004b:83146**
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Verschelde, Henri *see* **Dudal, David, 2004j:81104**
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Winitzki, Serge *see* **Hong, Jooyoo et al., 2004j:83048** *and* **2004j:83049**
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March, N. H. *see* **Howard, I. A. et al., 2004g:81314**
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81V70 Many-body theory; quantum Hall effect

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Mandal, Bhabani Prasad *see* **Kobashi, Yuko et al.**, **2004k:81438**
Masson, T. *see* **Chandelier, F. et al.**, **2004i:81273**
Maultzsch, J. *see* **Damnjanović, M. et al.**, **2004f:81262**
Mauser, Norbert J. *see* **Bao, Weizhu et al.**
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Moore, Joel E. Conservation laws in the quantum Hall Liouvillian theory and its generalizations. (English summary) **2004f:81265**
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Needs, Richard J. *see* **Nekovee, Maziar et al.**
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Pedrini, Bill *see* **Fröhlich, Jürg**, (**2004e:82003**)
Peng, Dan-Tao *see* **Hou, Bo Yu**, (**2004i:00019**)
Piette, Bernard M. A. G. *see* **Brizhik, L. S. et al.**, **2004h:81276**
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Quinn, John J. (*with* Wojs, Arkadiusz; Yi, Kyung-Soo) Novel families of fractional quantum Hall states: pairing of composite fermions. (English summary)
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Seiringer, Robert *see* **Lieb, Elliott H.**, **2004h:81279**
Stimming, Hans Peter *see* **Bao, Weizhu et al.**
Sugamoto, Akio *see* **Kobashi, Yuko et al.**, **2004k:81438**
Tejero Prieto, Carlos *see* **López Almorox, A.**, **2004f:81264**
Truong, Tuong T. *see* **Ralko, A.**, **2004a:81269** *and* **2004c:81328**
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Turbiner, A. V. Quantum many-body problems and perturbation theory. (English summary) **2004b:81256**
Vuković, T. *see* **Damnjanović, M. et al.**, **2004f:81262**
Wallet, J.-C. *see* **Chandelier, F. et al.**, **2004i:81273**
Wan, Shao-Long *see* **Xu, Fei^1 et al.**, **2004j:81219**
Wang, Junping *see* **Duan, Yi-Shi**
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Items with secondary classifications in 81V70

Alexanian, Garnik (*with* Paranjape, Manu B.; Arnaudon, Daniel) On plane wave and vortex-like solutions of noncommutative Maxwell-Chern-Simons theory. (English summary) **2004m:81262**
Altshuler, Boris L. *see* **Yuzbashyan, Emil A. et al.**, **2004b:81058**
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Douari, J. *see* **Daoud, M.**, **2004f:81097**
Draayer, J. P. *see* **Pan, Feng^1 et al.**, **2004g:81082**
Dunkl, Charles F. Special functions and generating functions associated with reflection groups. (English summary) **2004g:33028**
Flytzanis, N. *see* **Gaĭdideĭ, Yu. B. et al.**, **2004d:82024**
Fosco, C. D. *see* **Ciccolini, M. L. et al.**, **2004a:81234**
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Golse, François *see* **Bardos, Claude et al.**, **2004f:82051**
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Happer, William *see* **Yuzbashyan, Emil A. et al.**, **2004b:81058**

Helayël-Neto, José A. *see* **Paschoal, Ricardo C., 2004h:81147**
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Lazarides, N. *see* **Gaĭdideĭ, Yu. B. et al., 2004d:82024**
Le Bris, Claude *see* **Blanc, X. et al., 2004g:81073**
Lee, Choonkyu *see* **Hur, Jin, 2004e:81042**
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Ujino, Hideaki *see* **Nishino, Akinori et al., 2004b:81064**
Varzugin, G. G. *see* **Rybin, A. V. et al.**
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81V80 Quantum optics

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Banaszek, K. *see* **U'Ren, A. B. et al.**
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Banerjee, Subhashish (*with* Ghosh, Rupamanjari) Propagator for a spin-Bose system with the Bose field coupled to a reservoir of harmonic oscillators. (English summary) **2004f:81269**
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Barnett, Stephen M. *see* **Padgett, Miles et al., 2004f:81272**
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Baseia, B. *see* **de Souza, L. A. et al., 2004b:81263** *and* **Avelar, A. T. et al.**
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Bogolyubov, Nikolaĭ Nikolaevich, Jr. *see* **Prikarpat·skiĭ, A. K. et al., 2004b:81261**
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Brandes, Tobias *see* **Emary, Clive, 2004f:81270**
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Bullough, R. K. (*with* Gibbs, H. M.) Information storage and retrieval by stopping pulses of light. (English summary) **2004m:81289**
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Dell'anno, Fabio (*with* De Siena, Silvio; di Lisi, Antonio; Illuminati, Fabrizio) Multiphoton squeezed states by cubic nonlinear contribution. (English summary)
Dell'Antonio, Gianfausto On decoherence. (English summary) **2004i:81277**
De Siena, Silvio *see* **Dell'anno, Fabio et al.**
Dinh Dũng (*with* Schempp, Walter J.) Geometric analysis: the double-slit interference experiment and magnetic resonance imaging. (English summary)
Eisert, Jens *see* **Scheel, S. et al.**
Elsäßer, W. *see* **Heil, Tilman et al.**
Emary, Clive (*with* Brandes, Tobias) Chaos and the quantum phase transition in the Dicke model. (English summary) **2004f:81270**
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— Operator ordering in quantum optics theory and the development of Dirac's symbolic method. (English summary) **2004i:81278**
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Fischer, Ingo *see* **Heil, Tilman et al.**
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Frasca, Marco A modern review of the two-level approximation. (English summary) **2004f:81271**
Fu, Liang *see* **Fan, Hong Yi[1]**
Fujii, Kazuyuki Mathematical structure of Rabi oscillations in the strong coupling regime. (English summary) **2004b:81260**
Furuichi, Shigeru *see* **Obada, Abdel-Shafy F. et al., 2004a:81272**
Gavrielides, Athanasios *see* **Heil, Tilman et al.**
Ghosh, Rupamanjari *see* **Banerjee, Subhashish, 2004f:81269**
Gibbs, H. M. *see* **Bullough, R. K., 2004m:81289**
Gilary, Ido (*with* Moiseyev, Nimrod; Rahav, Saar; Fishman, Shmuel) Trapping of particles by lasers: the quantum Kapitza pendulum. (English summary)
Gordon, James P. Zero-point fluctuations, Wigner distributions and solitons. (English summary)
Gorin, T. *see* **Schäfer, Rudi et al.**
Graham, Robert Off-diagonal long range order in time. (English summary)
Granados Garcia, Victor *see* **Mota, R. D. et al., 2004k:81442**
Green, Kirk *see* **Heil, Tilman et al.**
Hainzl, Christian One non-relativistic particle coupled to a photon field. (English summary) **2004d:81162**
Heil, Tilman (*with* Fischer, Ingo; Elsäßer, W.; Krauskopf, Bernd; Gavrielides, Athanasios;

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Jamróz, A. *see* **Jakóbczyk, L.**

Janowicz, Maciej Method of multiple scales in quantum optics. (English summary) **2004c:81331**

Jiang, Nian-quan *see* **Fan, Hong Yi[1]**, **2004m:81290**

Johannisson, Pontus *see* **Brodin, Gert et al.**, **2004b:81258**

Jonathan, D. *see* **Moya-Cessa, Héctor et al.**, **2004a:81271**

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Roknizadeh, R. *see* **Naderi, M. H. et al.**, **2004k:81443**

Rosu, Haret C. *see* **Planat, Michel**, **2004h:81283**

Roversi, José A. *see* **Marchiolli, Marcelo A. et al.**, **2004k:81441**

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Stephany Ruiz, J. E. *see* **Mundarain, D. F.**, **2004m:81292**

Stöckmann, H.-J. *see* **Schäfer, Rudi et al.**

Tanaś, R. *see* **Ficek, Z.**

Taneri, Ufuk *see* **Prikarpat·skiĭ, A. K. et al.**, **2004b:81261**

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Treps, Nicolas *see* **Bowen, Warwick P. et al.**

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Ben-Aryeh, Y. Berry and Pancharatnam topological phases of atomic and optical systems. (English summary) **2004m:81088**
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Branning, David *see* **Peters, Nicholas et al.**, **2004k:81100**
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D'Ariano, Giacomo Mauro *see* **Buscemi, F. et al.**
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D'Helon, C. (*with* Protopopescu, Vladimir; Perez, Rafael B.) Targeting qubit states using open-loop control. (English summary) **2004h:81053**
Dion, Claude M. *see* **Atabek, Osman**, (**2004j:00023**)
Duan, L.-M. *see* **Cirac, J. Ignacio et al.**
Dumas, Éric Existence globale pour les systèmes de Maxwell-Bloch. [Global existence for Maxwell-Bloch systems] **2004k:35369**
Dušek, Miloslav *see* **Hendrych, Martin et al.**, **2004c:81027**
Ebrahimzadeh, M. Parametric light generation. (English summary) **2004m:78029**
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Feldman, Edgar *see* **Hillery, Mark et al.**, **2004m:82052**
Feng, Jian[1] *see* **Wang, Ji-Suo et al.**, **2004i:81113**
Figotin, Alexander *see* **Babin, Anatolii V.**, **2004h:78033**
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Filipp, Stefan (*with* Sjöqvist, Erik) Off-diagonal geometric phase for mixed states. (English summary) **2004a:81049**
Fiurášek, Jaromír *see* **Hendrych, Martin et al.**, **2004c:81027**
Flytzanis, N. *see* **Gaĭdideĭ, Yu. B. et al.**, **2004d:82024**
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Howard, I. A. (*with* March, N. H.) The Pauli potential in one-dimensional density functional theory: general result for two-level systems and specific example for N harmonically confined fermions. (English summary) **2004h:81074**
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Hussin, Véronique *see* **Alvarez-Moraga, Nibaldo**, **2004k:81140**
Jaksch, Dieter *see* **Cirac, J. Ignacio et al.**
Jeffrey, Evan *see* **Peters, Nicholas et al.**, **2004k:81100**
Jensen, Arne[2] *see* **Galtbayar, A. et al.**, **2004e:81037**
Jex, Igor (*with* Andersson, Erika; Chefles, Anthony) Comparing the states of many quantum systems. (English summary) **2004m:81036**
— *see also* **Andersson, Erika et al.**, **2004c:81017**
Jia, Cheng-Long *see* **Wang, Shun Jin et al.**, **2004a:82061**
Jing, Ouyang *see* **Fan, Hong Yi**[1]
Kaiser, Hans-Christoph (*with* Neidhardt, Hagen; Rehberg, Joachim) Density and current of a dissipative Schrödinger operator. (English summary) **2004f:81067**
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Kevrekidis, Panayotis G. *see* **Hudock, J. et al.**, **2004f:78033**
Khalique, Aeysha (*with* Saif, Farhan) Engineering entanglement between external degrees of freedom of atoms via Bragg scattering. (English summary)
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Kimura, Gen The Bloch vector for N-level systems. (English summary)
Kirr, E. (*with* Weinstein, Michael I.) Metastable states in parametrically excited multimode Hamiltonian systems. (English summary) **2004f:81250**
Klyachko, Aleksandr Anatol'evich *see* **Can, M. Ali et al.**
Kozawa, Haruhiko *see* **Titani, Satoko**, **2004i:03103**
Kumar, Pankaj *see* **Prakash, Hari**, **2004c:81124**
Kwiat, Paul *see* **Peters, Nicholas et al.**, **2004k:81100**
Lakshmanan, M. *see* **Kato, Takeo et al.**, **2004g:81051**
Lazarides, N. *see* **Gaĭdideĭ, Yu. B. et al.**, **2004d:82024**
Le Bris, Claude (*with* Maday, Yvon; Turinici, Gabriel) Towards efficient numerical approaches for quantum control. (English summary) **2004m:93093**
Lee, Hai-Woong *see* **Chun, Yong-Jin**, **2004g:81125**

Lefebvre, Roland *see* **Atabek, Osman et al.**
Légaré, François *see* **Bandrauk, André D. et al., (2004j:00023)**
Liu, Tang-Kun *see* **Wang, Ji-Suo et al., 2004i:81113**
Lombardi, E. *see* **Giacomini, S. et al., 2004a:81051**
Lomonaco, Samuel J., Jr. A talk on quantum cryptography or how Alice outwits Eve. (English summary) (*see* **2004h:81070**)
Łopuszański, J. *see* **Cisło, J., 2004k:81201**
Lu, Hai-Liang *see* **Fan, Hong Yi[1]**
Ługiewicz, P. *see* **Blanchard, Philippe et al., 2004f:81017**
Luo, Hong-Gang *see* **Wang, Shun Jin et al., 2004a:82061**
Maassen, Hans *see* **Bouten, Luc et al., 2004m:81136**
Maday, Yvon *see* **Le Bris, Claude et al., 2004m:93093**
Malomed, Boris A. *see* **Hudock, J. et al., 2004f:78033**
March, N. H. *see* **Howard, I. A., 2004h:81074**
Mathis, Wolfgang *see* **Zou, Xu Bo et al., 2004a:81040**
Maultzsch, J. *see* **Damnjanović, M. et al., 2004f:81262**
Mielke, Andreas *see* **Stauber, T., 2004f:81093**
Milman, Pérola (*with* Mosseri, Rémy) Topological phase for entangled two-qubit states. (English summary) **2004g:81021**
Milošević, I. *see* **Damnjanović, M. et al., 2004f:81262**
Miniatura, Christian *see* **Müller, Cord Axel, 2004d:82040**
Mølmer, Klaus *see* **Sørensen, Anders Søndberg, 2004a:81067**
Mosseri, Rémy *see* **Milman, Pérola, 2004g:81021**
Müller, Cord Axel (*with* Miniatura, Christian) Multiple scattering of light by atoms with internal degeneracy. (English summary) **2004d:82040**
Naboko, Sergei N. *see* **Boutet de Monvel-Berthier, Anne-Marie et al., 2004k:47059**
Nakamura, Katsuhiro *see* **Kato, Takeo et al., 2004g:81051**
Nakazato, Hiromichi To decay or not to decay? Temporal behavior of a quantum system—analysis based on a solvable model. (English summary) **2004h:81261**
Neidhardt, Hagen *see* **Kaiser, Hans-Christoph et al., 2004f:81067**
Nguyen-Dang, T. T. *see* **Atabek, Osman et al.**
Obada, Abdel-Shafy F. *see* **Abdalla, M. Sebawe et al., 2004g:82072**
Odzijewicz, Anatol *see* **Goliński, Tomasz, 2004g:39041**
Olkiewicz, Robert *see* **Blanchard, Philippe et al., 2004f:81017**
del Olmo, Mariano A. *see* **González, José A. et al., 2004j:81093**
Pahlke, Kai *see* **Zou, Xu Bo et al., 2004a:81040**
Pandey, Satyendra Nath The Schrodinger equation for the central nonpolynomial potential $V(r) = r^2 + \lambda r^2/(1 + gr^2)$ in two and three dimensions. (English summary)
Pellonpää, Juha-Pekka Covariant phase observables. (English summary) **2004d:81039**
Perez, Rafael B. *see* **D'Helon, C. et al., 2004h:81053**
Peters, Nicholas (*with* Altepeter, Joseph; Jeffrey, Evan; Branning, David; Kwiat, Paul) Precise creation, characterization and manipulation of single optical qubits. (English summary) **2004k:81100**
Pizzo, Alessandro One-particle (improper) states in Nelson's massless model. (English summary) **2004m:81074**
Plenio, Martin B. *see* **Giedke, Géza et al., 2004f:81028** *and* **Eisert, Jens et al.**
Prakash, Hari (*with* Kumar, Pankaj) Squeezing in superposed coherent states. (English summary) **2004c:81124**
Protopopescu, Vladimir *see* **D'Helon, C. et al., 2004h:81053**
Rehberg, Joachim *see* **Kaiser, Hans-Christoph et al., 2004f:81067**
Rosanov, Nikolay N. ★ Spatial hysteresis and optical patterns. (English summary) **2004e:78037**
Ryzhakov, G. V. *see* **Chebotarev, A. M., 2004m:81137**
Sacchi, M. F. *see* **Buscemi, F. et al.**
Saif, Farhan *see* **Khalique, Aeysha**
Salgado, D. (*with* Sánchez-Gómez, J. L.) Damped quantum interference using stochastic calculus. (English summary)
Sánchez-Gómez, J. L. *see* **Salgado, D.**
Sankovich, D. P. *see* **Gorzhini, M.**
Saxena, G. M. Eigenvalue equation of squeezed coherent states and time evolution of squeezed states. (English summary) **2004a:81125**
Saxena, Ram Kishore (*with* Kalla, Shyam L.) On a fractional generalization of the free electron laser equation. (English summary) **2004c:45013**
– On a unified fractional generalization of free electron laser equation. (Hindi. English and Hindi summaries)
Scheel, S. *see* **Eisert, Jens et al.**
Sciarrino, F. *see* **Giacomini, S. et al., 2004a:81051**
Sharma, S. Shelly (*with* Vidiella-Barranco, A.) Fast quantum logic gates with trapped ions interacting with external laser and quantized cavity field beyond the Lamb-Dicke regime. (English summary) **2004d:81024**
Shih, Yanhua Entangled biphoton source—property and preparation. (English summary) **2004c:81040**
Shumovskiĭ, A. S. *see* **Can, M. Ali et al.**
Silva, Luis O. *see* **Boutet de Monvel-Berthier, Anne-Marie et al., 2004k:47059**
Sjöqvist, Erik *see* **Filipp, Stefan, 2004a:81049**
Smerzi, A. (*with* Trombettoni, A.) Discrete nonlinear dynamics of weakly coupled Bose-Einstein condensates. (English summary) **2004h:82071**
Somu, Sivasubramanian (*with* Castellani, Gianluca; Fabiano, N.; Widom, A.; Swain, John; Srivastava, Y. N.; Vitiello, Giuseppe) Non-commutative geometry and measurements of polarized two photon coincidence counts. (English summary)
Sørensen, Anders Søndberg (*with* Mølmer, Klaus) Entangling atoms in bad cavities. (English summary) **2004a:81067**
Srivastava, Y. N. *see* **Somu, Sivasubramanian et al.**
Stauber, T. (*with* Mielke, Andreas) Flow equations for Hamiltonians: contrasting different approaches by using a numerically solvable model. (English summary) **2004f:81093**
Sun, Jin Zuo *see* **Wang, Ji-Suo et al., 2004i:81113**
Swain, John *see* **Somu, Sivasubramanian et al.**
Titani, Satoko (*with* Kozawa, Haruhiko) Quantum set theory. (English summary) **2004i:03103**
Tosiek, Jaromir *see* **González, José A. et al., 2004j:81093**
Trombettoni, A. *see* **Smerzi, A., 2004h:82071**
Turinici, Gabriel *see* **Le Bris, Claude et al., 2004m:93093**
Vidiella-Barranco, A. *see* **Sharma, S. Shelly, 2004d:81024**
Vitiello, Giuseppe *see* **Somu, Sivasubramanian et al.**
Vuković, T. *see* **Damnjanović, M. et al., 2004f:81262**
Wang, Ji-Suo (*with* Liu, Tang-Kun; Feng, Jian[1]; Sun, Jin Zuo; Zhan, Ming-Sheng) Phase properties of new even and odd nonlinear coherent states. (English summary) **2004i:81113**
Wang, Shun Jin (*with* An, Jun-Hong; Luo, Hong-Gang; Jia, Cheng-Long) Dynamical symmetry and analytical solutions of the non-autonomous quantum master equation of the dissipative two-level system: decoherence of the quantum register. (English summary) **2004a:82061**
Wang, Xiang-bin Theorem for the beam-splitter entangler. (English summary) **2004a:81037**
Wassam, W. A., Jr. Structure of global dynamics, star-conjugation symmetry, and stationarity in the theoretical description of closed quantum Liouvillian systems. (English and Spanish summaries) **2004a:82075**
Weinstein, Michael I. *see* **Kirr, E., 2004f:81250**
Widom, A. *see* **Somu, Sivasubramanian et al.**
Yajima, Kenji *see* **Galtbayar, A. et al., 2004e:81037**
Yu, H. T. *see* **Bandrauk, André D. et al., (2004j:00023)**
Zhan, Ming-Sheng *see* **Wang, Ji-Suo et al., 2004i:81113**
Zhang, Yong-Sheng *see* **Zhou, Xi-Bin et al., 2004c:81047**
Zhou, Xi-Bin (*with* Zhang, Yong-Sheng; Guo, Guang-Can) Scheme for demonstrating the Bell theorem in tripartite entanglement between atomic ensembles. (English summary) **2004c:81047**
Zoller, P. *see* **Cirac, J. Ignacio et al.**
Zou, Xu Bo (*with* Pahlke, Kai; Mathis, Wolfgang) Generation of multi-photon entangled states by using linear optical elements and a projective measurement. (English summary) **2004a:81040**
Zou, Yi *see* **Cole, Daniel C.**

81V99 None of the above, but in this section

Borchers, Ch. *see* **Borchers, H. J., 2004i:81279**
Borchers, H. J. (*with* Borchers, Ch.) The first law of thermodynamics and Dyson-Lieb's perpetuum mobile. (English summary) **2004i:81279**

Items with secondary classifications in 81V99

Exner, Pavel (*with* Yoshitomi, Kazushi) Eigenvalue asymptotics for the Schrödinger operator with a δ-interaction on a punctured surface. (English summary) **2004j:35068**
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Krainov, V. P. *see* **Reiss, H. R., 2004f:33010**
Reiss, H. R. (*with* Krainov, V. P.) Generalized Bessel functions in tunnelling ionization. (English summary) **2004f:33010**
Ryan, M. P., Jr. Quantum collapse of Newtonian dust shells. (English summary) **2004m:83041**
Veress, Laszlo Antal Newton's laws, symmetry, and the three basic interactions of the nature. (English summary) **2004h:70003**
Yoshitomi, Kazushi *see* **Exner, Pavel, 2004j:35068**

82–XX Statistical mechanics, structure of matter

82–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 82–00

(Domb, Cyril) *see* **Phase transitions and critical phenomena**
(Lebowitz, Joel Louis) *see* **Phase transitions and critical phenomena**

Items listed otherwise than by author

Index:
Phase transitions and critical phenomena ★ Phase transitions and critical phenomena. Vol. 20.
Phase transitions and critical phenomena ★ Phase transitions and critical phenomena. Vol. 20.

82–01 Instructional exposition (textbooks, tutorial papers, etc.)

Braun, O. M. (*with* Kivshar, Yuri S.) ★ The Frenkel-Kontorova model. **2004k:82001**
(Brewer, William) *see* **Schwabl, Franz**, **2004g:82001**
Kivshar, Yuri S. *see* **Braun, O. M.**, **2004k:82001**
Safran, Samuel A. ★ Statistical thermodynamics of surfaces, interfaces, and membranes. **2004h:82001**
Schwabl, Franz ★ Statistical mechanics. **2004g:82001**
Sewell, Geoffrey L. ★ Quantum mechanics and its emergent macrophysics. (English summary) **2004b:82001**
Sornette, Didier ★ Critical phenomena in natural sciences. **2004k:82002**
Sturge, M. D. ★ Statistical and thermal physics: fundamentals and applications. **2004k:82003**
Tsang, Tung ★ Statistical mechanics. (English summary) **2004a:82001**

Items with secondary classifications in 82–01

Agricola, Ilka (*with* Friedrich, Thomas) ★ Global analysis. **2004f:58001**
Barberousse, Anouk The diversity of models in statistical mechanics: views about the structure of scientific theories.
Binder, Kurt (*with* Heermann, D. W.) ★ Monte Carlo simulation in statistical physics. **2004b:82050**
Englert, Berthold-Georg (*with* Morigi, Giovanna) Five lectures on dissipative master equations. (*see* **2004e:81003**)
Ercolessi, Elisa One and quasi-one dimensional spin systems. (English summary)
Friedrich, Thomas *see* **Agricola, Ilka**, **2004f:58001**
Gerasīmenko, V. Ĭ. *see* **Petrina, D. Ya. et al.**, **2004g:82002**
Hartmann, Alexander K. (*with* Rieger, Heiko) ★ Optimization algorithms in physics. (English summary) **2004b:00006**
Heermann, D. W. *see* **Binder, Kurt**, **2004b:82050**
(Malyshev, D. V.) *see* **Petrina, D. Ya. et al.**, **2004g:82002**
Malyshev, P. V. *see* **Petrina, D. Ya. et al.**, **2004g:82002**
Morigi, Giovanna *see* **Englert, Berthold-Georg**, (**2004e:81003**)
(Nestke, Andreas) *see* **Agricola, Ilka**, **2004f:58001**
Petrina, D. Ya. (*with* Gerasīmenko, V. Ĭ.; Malyshev, P. V.) ★ Mathematical foundations of classical statistical mechanics. **2004g:82002**
Rieger, Heiko *see* **Hartmann, Alexander K.**, **2004b:00006**
Schütz, Gunter M. Critical phenomena and universal dynamics in one-dimensional driven diffusive systems with two species of particles. (English summary)
Wellhöner, Volker ★ Ökonomik—Physik—Mathematik. (German) [Economics—physics—mathematics]

82–02 Research exposition (monographs, survey articles)

(Bar′yakhtar, V. G.) *see* **Bogolyubov, Nikolaĭ Nikolaevich**, **2004f:82001**
Bishop, Robert C. Nonequilibrium statistical mechanics Brussels-Austin style. (English summary) **2004m:82001**
Bogolyubov, Nikolaĭ Nikolaevich (*with* Bogolyubov, Nikolaĭ Nikolaevich, Jr.) ★ Polaron theory. **2004f:82001**
Bogolyubov, Nikolaĭ Nikolaevich, Jr. *see* **Bogolyubov, Nikolaĭ Nikolaevich**, **2004f:82001**
Bologna, Mauro *see* **West, Bruce J. et al.**, **2004h:82002**
Gerasīmenko, V. Ĭ. *see* **Petrina, D. Ya. et al.**, **2004g:82002**
Grigolini, Paolo *see* **West, Bruce J. et al.**, **2004h:82002**
(Malyshev, D. V.) *see* **Petrina, D. Ya. et al.**, **2004g:82002**
Malyshev, P. V. *see* **Petrina, D. Ya. et al.**, **2004g:82002**
Petrina, D. Ya. (*with* Gerasīmenko, V. Ĭ.; Malyshev, P. V.) ★ Mathematical foundations of classical statistical mechanics. **2004g:82002**
West, Bruce J. (*with* Bologna, Mauro; Grigolini, Paolo) ★ Physics of fractal operators. **2004h:82002**

Items with secondary classifications in 82–02

Accardi, Luigi (*with* Kozyrev, Sergei) Lectures on quantum interacting particle systems. (*see* **2004c:82079**)
Aharony, Amnon Old and new results on multicritical points. (English summary) **2004c:82036**
Aldana-González, Maximino (*with* Cocho Gil, Germinal; Larralde, Hernán; Martínez-Mekler, G.) Polymer transport in random potentials and the genetic code: the waltz of life. (English summary)
Alicki, Robert (*with* Fannes, Mark) ★ Quantum dynamical systems. **2004j:81002**
Amster, P. (*with* Mariani, Maria Cristina) Solutions to a one-dimensional hydrodynamic model for semiconductors by an iterative method. (English summary) (*see* **2004i:47002**)
Arimondo, Ennio *see* **Dauxois, Thierry et al.**, (**2004d:82001**)
Arlotti, Luisa (*with* Bellomo, Nicola; De Angelis, Elena; Lachowicz, Mirosław) ★ Generalized kinetic models in applied sciences. **2004k:82084**
Aubry, Serge J. (*with* Kopidakis, G.) Aspects of discrete breathers and new directions. (English summary) **2004c:82080**
Bagarello, Fabio Quantum models and locally convex $*$-algebras. (English summary) **2004k:82011**
Barré, Julien (*with* Mukamel, David; Ruffo, Stefano) Ensemble inequivalence in mean-field models of magnetism. (English summary) (*see* **2004d:82001**)
Barugola, Alexandra *see* **Mira, Christian et al.**, **2004m:82078**
Bellomo, Nicola *see* **Arlotti, Luisa et al.**, **2004k:82084** *and* **Lecture notes on the discretization of the Boltzmann equation**, **2004m:82126**
Ben Abdallah, Naoufel (*with* Degond, Pierre; Deluzet, Fabrice; Latocha, Vladimir; Talaalout, R.; Vignal, Marie Hélène) Diffusion limits of kinetic models. (English summary) (*see* **2004j:00016**)
Benet, L. (*with* Weidenmüller, Hans A.) Review of the k-body embedded ensembles of Gaussian random matrices. (English summary) **2004g:82053**
Bernard, Denis (*with* LeClair, André) A classification of non-Hermitian random matrices. (English summary) (*see* **2004e:82003**)
Bertini, L. Dynamic fluctuations for Kac and related models. (English summary) **2004k:82016**
(Bjorken, James D.) *see* **Volovik, Grigory E.**, **2004i:81005**
Bocquet, Marc (*with* Chalker, J. T.) Network models for chiral symmetry classes of Anderson localisation. (English summary)
Boers, Dave (*with* Holthaus, Martin) Canonical statistics of occupation numbers for ideal and weakly interacting Bose-Einstein condensates. (English summary) (*see* **2004d:82001**)
Bovier, Anton (*with* Kurkova, I. A.) Rigorous results on some simple spin glass models. (English summary) **2004i:82023**
Bray, Alan J. First-passage problems in spatially extended systems. (English summary)
Brickmann, Jürgen *see* **Gudowska-Nowak, Ewa et al.**
Brightwell, Graham R. (*with* Winkler, Peter M.) Hard constraints and the Bethe lattice: adventures at the interface of combinatorics and statistical physics. (English summary) **2004d:82008**
Brujić, J. *see* **Edwards, S. F. et al.**, **2004m:82070**
Cardy, John The stress tensor in quenched random systems. (English summary) (*see* **2004e:82003**)
— Crossover scaling functions for 2d vesicles, and the Yang-Lee edge singularity. (English summary) **2004g:82037**
Cathala, Jean-Claude *see* **Mira, Christian et al.**, **2004m:82078**
Chalker, J. T. *see* **Bocquet, Marc**
Chomaz, Philippe (*with* Gulminelli, Francesca) Phase transitions in finite systems. (English summary) (*see* **2004d:82001**)
Chui, S. T. *see* **Liu, Wu-Ming**, **2004h:82068**
Cocho Gil, Germinal *see* **Aldana-González, Maximino et al.**
Cohen, Ezechiel G. D. (*with* Ispolatov, I.) Phase transitions in systems with $1/r^\alpha$ attractive interactions. (English summary) (*see* **2004d:82001**)
Collet, Jean-François Quelques modèles cinétiques de transitions de phase. (French summary) [Some kinetic models of phase transitions]
Dauxois, Thierry (*with* Ruffo, Stefano; Arimondo, Ennio; Wilkens, Martin) Dynamics and thermodynamics of systems with long-range interactions: an introduction. (English summary) (*see* **2004d:82001**)
De Angelis, Elena *see* **Arlotti, Luisa et al.**, **2004k:82084**
Degond, Pierre *see* **Ben Abdallah, Naoufel et al.**, (**2004j:00016**)
Deluzet, Fabrice *see* **Ben Abdallah, Naoufel et al.**, (**2004j:00016**)
Du, Qiang Numerical computation of quantized vortices in the Bose-Einstein condensate. (English summary) (*see* **2004j:65009**)
— Diverse vortex dynamics in superfluids. (English summary) (*see* **2004h:65005**)
Edwards, S. F. (*with* Grinev, D. V.; Brujić, J.) Fundamental problems in statistical physics of jammed packings. (English summary) **2004m:82070**
Evans, M. R. Condensation transitions in nonequilibrium systems. (English summary)
Fagnola, Franco (*with* Rebolledo, Rolando) Lectures on the qualitative analysis of quantum Markov semigroups. (*see* **2004c:82079**)
Fannes, Mark *see* **Alicki, Robert**, **2004j:81002**
Flessas, G. P. (*with* Leach, P. G. L.; Yannacopoulos, A. N.) Stochastic effects on the nonlinear Schrödinger equation. (English summary)
Forrester, Peter J. (*with* Snaith, N. C.; Verbaarschot, J. J. M.) Developments in random matrix theory. (English summary)
Fröhlich, Jürg (*with* Merkli, M.; Schwarz, Simon; Ueltschi, D.) Statistical mechanics of thermodynamic processes. (*see* **2004j:81004**)
Fyodorov, Yan V. (*with* Sommers, Hans-Jürgen) Random matrices close to Hermitian or unitary: overview of methods and results. (English summary) **2004h:82046**
— (*with* Strahov, E.) On characteristic polynomials of random Hermitian matrices: Gaussian unitary ensemble and its chiral counterpart. (English summary) **2004i:82024**
Gardini, Laura *see* **Mira, Christian et al.**, **2004m:82078**
(Gatignol, Renée) *see* **Lecture notes on the discretization of the Boltzmann equation**, **2004m:82126**
Georgii, Hans-Otto (*with* Häggström, Olle; Maes, Christian) The random geometry of equilibrium phases. **2004h:82022**
Gould, Mark D. *see* **Links, Jon R. et al.**, **2004g:82032**
Grabert, Hermann Transport in single channel quantum wires. (English summary) (*see* **2004d:81002**)
Grimm, Uwe Aperiodicity and disorder—do they play a role? (English summary) (*see* **2004e:82001**)
Grimmett, Geoffrey R. The random-cluster model. (English summary) **2004m:60222**
Grinev, D. V. *see* **Edwards, S. F. et al.**, **2004m:82070**
Gross, Dieter H. E. Thermo-statistics or topology of the microcanonical entropy surface. (English summary) (*see* **2004d:82001**)
Gudowska-Nowak, Ewa (*with* Kamińska, Agnieszka; Papp, Gábor; Brickmann, Jürgen) Free random variables and molecular spectra. (English summary)
Guerra, Francesco (*with* Toninelli, Fabio Lucio) Infinite volume limit and spontaneous replica symmetry breaking in mean field spin glass models.
Gulminelli, Francesca *see* **Chomaz, Philippe**, (**2004d:82001**)
Häggström, Olle *see* **Georgii, Hans-Otto et al.**, **2004h:82022**

Holthaus, Martin *see* **Boers, Dave**, (2004d:82001)
Imbrie, John Z. Dimensional reduction and crossover to mean-field behavior for branched polymers. (English summary)
Ingold, Gert-Ludwig Path integrals and their application to dissipative quantum systems. (*see* **2004e:81003**)
Ispolatov, I. *see* **Cohen, Ezechiel G. D.**, (2004d:82001)
Janse van Rensburg, E. J. Statistical mechanics of directed models of polymers in the square lattice. (English summary) **2004f:82026**
Kamińska, Agnieszka *see* **Gudowska-Nowak, Ewa et al.**
Kanter, Ido *see* **Kinzel, Wolfgang**
Katz, Joseph Thermodynamics of self-gravitating systems. (English summary) **2004g:82003**
Kinzel, Wolfgang (*with* Kanter, Ido) Disorder generated by interacting neural networks: application to econophysics and cryptography. (English summary)
Kopidakis, G. *see* **Aubry, Serge J.**, **2004c:82080**
Kotecký, Roman Phase transitions: on a crossroads of probability and analysis. (English summary) (*see* **2004d:00016**)
Kozitskiĭ, Yu. V. Laguerre entire functions and the Lee-Yang property. (English summary)
Kozyrev, Sergei *see* **Accardi, Luigi**, (2004c:82079)
Kurchan, Jorge Supersymmetry, replica and dynamic treatments of disordered systems: a parallel presentation. (English summary)
Kurkova, I. A. *see* **Bovier, Anton**, **2004i:82023**
Lachowicz, Mirosław *see* **Arlotti, Luisa et al.**, **2004k:82084**
Larralde, Hernán *see* **Aldana-González, Maximino et al.**
Latocha, Vladimir *see* **Ben Abdallah, Naoufel et al.**, (2004j:00016)
Leach, P. G. L. *see* **Flessas, G. P. et al.**
LeClair, André *see* **Bernard, Denis**, (2004e:82003)
Lee, Patrick A. Theory of high temperature superconductivity: a status report. (English summary)
Links, Jon R. (*with* Zhou, Huan Qiang; McKenzie, Ross H.; Gould, Mark D.) Algebraic Bethe ansatz method for the exact calculation of energy spectra and form factors: applications to models of Bose-Einstein condensates and metallic nanograins. (English summary) **2004g:82032**
Liu, Wu-Ming (*with* Chui, S. T.) Integrable models in Bose-Einstein condensates. (English summary) **2004h:82068**
Maes, Christian *see* **Georgii, Hans-Otto et al.**, **2004h:82022**
Mariani, María Cristina *see* **Amster, P.**, (2004i:47002)
Martínez-Mekler, G. *see* **Aldana-González, Maximino et al.**
McKenzie, Ross H. *see* **Links, Jon R. et al.**, **2004g:82032**
Merkli, M. *see* **Fröhlich, Jürg et al.**, (2004j:81004)
Mestel, B. D. *see* **Osbaldestin, A. H.**
Metzner, Walter Functional renormalization group for interacting Fermi systems. (English summary)
Mira, Christian (*with* Gardini, Laura; Barugola, Alexandra; Cathala, Jean-Claude) ★ Chaotic dynamics in two-dimensional noninvertible maps. **2004m:82078**
Mukamel, David *see* **Barré, Julien et al.**, (2004d:82001)
Newman, Charles M. (*with* Stein, D. L.) Finite-dimensional spin glasses: states, excitations, and interfaces. (English summary)
Osbaldestin, A. H. (*with* Mestel, B. D.) Renormalization in quasiperiodically forced systems. (English summary)
Oyibo, Gabriel A. ★ Grand unified theorem: discovery of the theory of everything and the fundamental building block of quantum theory.
Padmanabhan, Thanu Statistical mechanics of gravitating systems in static and cosmological backgrounds. (English summary) (*see* **2004d:82001**)
Papp, Gábor *see* **Gudowska-Nowak, Ewa et al.**
Parisi, Giorgio Two spaces looking for a geometer. (English summary) **2004h:81071**
Pinnau, René A review on the quantum drift diffusion model. (English summary) **2004b:82059**
Pitaevskii, L. P. (*with* Stringari, Sandro) ★ Bose-Einstein condensation. **2004i:82038**
Pleimling, M. Critical phenomena at perfect and non-perfect surfaces. (English summary)
Prohl, Andreas ★ Computational micromagnetism. (English summary) **2004e:82067**
Pushkarov, Dimitar I. Quasiparticle kinetics and dynamics in nonstationary deformed crystals in the presence of electromagnetic fields. (English summary)
Rebolledo, Rolando *see* **Fagnola, Franco**, (2004c:82079)
Robnik, Marko Randomness of classical chaotic motion. (English summary) **2004m:82080**
Ruelle, David Irreversibility revisited. (English summary) **2004i:82031**
Ruffo, Stefano *see* **Dauxois, Thierry et al.**, (2004d:82001) *and* **Barré, Julien et al.**, (2004d:82001)
Schulz, Michael ★ Statistical physics and economics. **2004f:91005**
Schwarz, Simon *see* **Fröhlich, Jürg et al.**, (2004j:81004)
Shibata, Naokazu Application of the density matrix renormalization group method to finite temperatures and two-dimensional systems. (English summary) **2004h:82083**
Sierra, Germán Integrability and conformal symmetry in the BCS model. (English summary) (*see* **2004e:82003**)
Snaith, N. C. *see* **Forrester, Peter J. et al.**
Sommers, Hans-Jürgen *see* **Fyodorov, Yan V.**, **2004h:82046**
Stein, D. L. *see* **Newman, Charles M.**
Stollmann, Peter ★ Caught by disorder. (English summary) **2004a:82048**
Strahov, E. *see* **Fyodorov, Yan V.**, **2004i:82024**
Stringari, Sandro *see* **Pitaevskii, L. P.**, **2004i:82038**
Suzuki, Masuo Methodology of analytic and computational studies on quantum systems. (English summary) **2004c:82015**
— Quantum transfer-matrix method and thermo-quantum dynamics. (English summary)
Talaalout, R. *see* **Ben Abdallah, Naoufel et al.**, (2004j:00016)
Toninelli, Fabio Lucio *see* **Guerra, Francesco**
Toom, André ★ Contornos, conjuntos convexos e autômatos celulares. (Portuguese) [Contours, convex sets and cellular automata] **2004d:68094**
Tracy, Craig A. (*with* Widom, Harold) Distribution functions for largest eigenvalues and their applications. (English summary) **2004f:82034**
Ueltschi, D. *see* **Fröhlich, Jürg et al.**, (2004j:81004)
Verbaarschot, J. J. M. *see* **Forrester, Peter J. et al.**
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82Bxx Equilibrium statistical mechanics

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82B20 Lattice systems (Ising, dimer, Potts, etc.) and systems on graphs

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82B28 Renormalization group methods [see also 81T17]

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82B30 Statistical thermodynamics [see also 80–XX]

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Sottas, Pierre-Edouard *see* **Dobay, Akos et al., 2004f:82024**

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82B43 Percolation [see also 60K35]

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Duxbury, P. M. *see* **Alava, M. J. et al.**, **2004k:82040**

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Manna, Subhrangshu Sekhar *see* **Karmakar, R. et al.**, **2004d:86024**

Meester, Ronald *see* **Booth, Lorna et al.**, **2004b:60026**

Moukarzel, C. F. *see* **Vidales, A. M. et al.**, **2004g:82039** *and* **Alava, M. J. et al.**, **2004k:82040**

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82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)

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Fontanari, José F. *see* **Nogueira, E., Jr., 2004i:82026**
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Hsieh, June *see* **Ma, Wen Jong et al., 2004c:82056** *and* **2004g:82059**
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Izrailev, F. M. *see* **Dossetti-Romero, V. et al.**
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Kota, V. K. B. *see* **Chavda, N. D. et al., 2004g:82054**
Kravtsov, Vladimir E. *see* **Ndawana, Macleans L., 2004h:82052** *and* **Yevtushenko, Oleg, 2004i:82028**
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Pastur, Leonid *see* **Buslaev, Vladimir S., 2004h:82044**
Pérez Vicente, Conrado J. *see* **Coolen, A. C. C., 2004j:82024**
Pinson, H. *see* **Disertori, M. et al., 2004c:82052**
Potbhare, V. *see* **Chavda, N. D. et al., 2004g:82054**
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Shubin, Carol *see* **Schlag, Wilhelm et al., 2004g:82062**
Sommers, Hans-Jürgen *see* **Fyodorov, Yan V., 2004h:82046**
Sortais, Michel *see* **Ben Arous, Gérard, 2004b:82022**
Spencer, Thomas C. *see* **Disertori, M. et al., 2004c:82052**
Stein, D. L. *see* **Newman, Charles M.**
Stollmann, Peter ★ Caught by disorder. (English summary) **2004a:82048**
— *see also* **Klassert, Steffen et al., 2004h:82048**
Stolz, Günter *see* **Jitomirskaya, S. Ya. et al., 2004f:82032**
Strahov, E. *see* **Fyodorov, Yan V., 2004i:82024**
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— On the meaning of Parisi's functional order parameter. (English and French summaries) **2004k:82048**
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Wang, Xiang Rong *see* **Wang, S. D. et al., 2004m:82069**
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Yin, Sun *see* **Wang, S. D. et al., 2004m:82069**
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Zabrodin, A. V. *see* **Wiegmann, Paul B., 2004h:82054**
Zecchina, Riccardo *see* **Mézard, Marc et al., 2004g:82060**
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82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)

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82C05 Classical dynamic and nonequilibrium statistical mechanics (general)

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Ruiz, A. *see* **Alonso, Daniel et al.**
Sadlej, Krzysztof *see* **Piasecki, Jarosław, 2004g:82071**
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Schwartz, Ira B. *see* **Lai, Ying-Cheng et al., 2004c:82068** *and* **Bollt, Erik M. et al., 2004h:82059**
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Stornaiolo, Cosimo *see* **Bimonte, Giuseppe et al., 2004i:82033**
Stuart, A. M. *see* **Kupferman, Raz et al., 2004i:82035**
Sukhov, Yu. M. *see* **Dudnikova, T. V. et al., 2004c:82066**
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Taylor, John G. *see* **Emmanouilides, C. J. et al.**
Terry, John R. *see* **Kupferman, Raz et al., 2004i:82035**
Timofeyev, Ilya *see* **Majda, Andrew J., 2004h:82064**
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Tupper, P. F. *see* **Kupferman, Raz et al., 2004i:82035**
Turkington, Bruce *see* **Ellis, Richard S. et al., 2004j:82026**
de Vega, I. *see* **Alonso, Daniel et al.**
Viana, Ricardo L. *see* **Batista, Antônio M. et al., 2004d:82018**
Wattis, Jonathan A. D. *see* **Bolton, Colin D., 2004m:82075**
Wilkens, Martin *see* **Dauxois, Thierry et al., (2004d:82001)**
Willmann, R. D. *see* **Levine, Erel**
Xi, Haowen *see* **Toral, Raúl et al., 2004a:82054**
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Errata: (*cont'd.*)
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Gibbons, Gary W. *see* **Battye, Richard A. et al., 2004e:70012**

Giorgilli, A. *see* **Galgani, L., 2004f:37081**

Gonnella, G. *see* **Corberi, F. et al., 2004g:82096**

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Kataoka, Naoto (*with* Kaneko, Kunihiko) Dynamical networks in function dynamics. (English summary) **2004g:37032**

Kennedy, Judy A. *see* **Hunt, Brian R. et al., 2004d:37033**

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Klein, Markus *see* **Bovier, Anton et al., 2004g:60102**

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Laurençot, Philippe *see* **Escobedo, Miguel et al., 2004k:82069**

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Lenci, Marco Aperiodic Lorentz gas: recurrence and ergodicity. (English summary) **2004f:37008**

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Li, Chun-Biu *see* **Hasegawa, Hiroshi H. et al., 2004i:37007**

Li, Tien-Yien *see* **Hunt, Brian R. et al., 2004d:37033**

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Lim, Woochang *see* **Kim, Sang-Yoon**

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Lindenberg, Katja *see* **Buceta, J.**

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Liu, Pei-Dong Ruelle inequality relating entropy, folding entropy and negative Lyapunov exponents. (English summary) **2004g:37036**
Liu, Yanzhu *see* **Yu, Hong Jie**, **2004i:37072**
Livi, Roberto *see* **Lepri, Stefano et al.**, **2004c:82101**
Lonngren, Karl E. *see* **Uçar, Ahmet et al.**
Lubich, Christian *see* **Cohen, David et al.**, **2004h:34076**
Lyubomudrov, O. (*with* Edelman, M.; Zaslavsky, George M.) Pseudochaotic systems and their fractional kinetics. (English summary) **2004k:37059**
Madhusudhana Rao, D. *see* **Dhar, Abishek et al.**, **2004h:81105**
Maes, Christian (*with* Netočný, Karel) Time-reversal and entropy. (English summary) **2004c:82102**
Malasoma, J.-M. A new class of minimal chaotic flows. (English summary) **2004b:37060**
Mallick, Kirone (*with* Marcq, Philippe) Effects of parametric noise on a nonlinear oscillator. (English summary) **2004k:34078**
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Malyshev, P. V. *see* **Petrina, D. Ya. et al.**, **2004g:82002**
Marchioro, Carlo *see* **Buttà, Paolo et al.**, **2004d:78009**
Marcq, Philippe *see* **Mallick, Kirone**, **2004k:34078**
Markarian, Roberto *see* **Del Magno, Gianluigi**, **2004a:37045**
Markus, Mario (*with* Schmick, Malte) Intermittency in connected Hamiltonian systems. (English summary) **2004h:37093**
Masoller, Cristina (*with* Zanette, Damián H.) Different regimes of synchronization in nonidentical time-delayed maps. (English summary) **2004e:37048**
Matsuura, Masaya On a new fluctuation-dissipation theorem for degenerate stationary flows. (English summary) **2004j:60083**
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— *see also* **Escobedo, Miguel et al.**, **2004k:82069**
Mosekilde, Erik *see* **Zhusubaliev, Zh. T.**, **2004g:37044**
Moujahid, A. *see* **Sarasola, C. et al.**, **2004a:37041**
Müller, Ingo Entropy: a subtle concept in thermodynamics. (English summary) **2004k:82051**
Nelson, Kevin (*with* Driebe, Dean J.) Ensemble dynamics of intermittency and power-law decay. (English summary) **2004b:37034**
Netočný, Karel *see* **Maes, Christian**, **2004c:82102**
Nevidin, Konstantin V. *see* **Belykh, Igor V. et al.**, **2004e:37047**
Niethammer, Barbara *see* **Jabin, Pierre-Emmanuel**, **2004h:34097**
Nusse, Helena E. *see* **Hunt, Brian R. et al.**, **2004d:37033**
Ott, Edward ★ Chaos in dynamical systems. (English summary) **2004a:37001**
Peng, Chen-Chang *see* **Lin, Wen-Wei**, **2004i:37064**
Perthame, Benoît *see* **Escobedo, Miguel et al.**, **2004k:82069**
Petersen, T. Kyle *see* **Anzalone, Nick et al.**, **2004m:05017**
Pethel, Shawn D. *see* **Corron, Ned J.**
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Pohl, Thomas *see* **Ebeling, Werner**, (**2004d:82002**)
Politi, Antonio *see* **Lepri, Stefano et al.**, **2004c:82101**
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Prellberg, Thomas Towards a complete determination of the spectrum of a transfer operator associated with intermittency. (English summary) **2004e:37036**
Qian, Min *see* **Jiang, Da-Quan et al.**, **2004m:37047**
Qian, Min-Ping *see* **Jiang, Da-Quan et al.**, **2004m:37047**
Rajasekar, S. *see* **Lakshmanan, M.**, **2004d:37002**
Ramaswamy, Ramakrishna *see* **Datta, Sandip**, **2004h:37040**
Rapp, P. E. *see* **Cellucci, C. J. et al.**, **2004e:37127**
Rink, Bob Symmetric invariant manifolds in the Fermi-Pasta-Ulam lattice. (English summary) **2004b:70048**
Rodriguez Ricard, Mariano *see* **Mischler, Stéphane**, **2004d:35041**
Rom-Kedar, V. *see* **Turaev, D.**, **2004f:37049**
Royer, Christophe Calcul pseudodifférentiel en grande dimension et limites thermodynamiques. (English and French summaries) [Pseudodifferential calculus in large dimension and thermodynamic limits] **2004c:35439**
Ruelle, David Correction and complements: "Differentiation of SRB states" [Comm. Math. Phys. **187** (1997), no. 1, 227–241; MR 98k:58144]. (English summary) **2004b:37038**
Ruggeri, Tommaso (*with* Serre, Denis) Stability of constant equilibrium state for dissipative balance laws system with a convex entropy. (English summary) **2004k:35257**
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Sarazhinskiĭ, D. S. *see* **Antonevich, Anatoliĭ Borisovich et al.**, **2004m:37052**
Schmick, Malte *see* **Markus, Mario**, **2004h:37093**
Schütz, Gunter M. *see* **Großkinsky, Stefan et al.**, **2004h:82007**
Serre, Denis *see* **Ruggeri, Tommaso**, **2004k:35257**
Shankar N., Udaya *see* **Dhar, Abishek et al.**, **2004h:81105**
Simányi, Nándor Proving the ergodic hypothesis for billiards with disjoint cylindric scatterers. (English summary) **2004m:37067**
Simiu, Emil ★ Chaotic transitions in deterministic and stochastic dynamical systems. (English summary) **2004c:37057**
Smith, Leonard A. *see* **Guerrero Martinez, Alexandra**, **2004i:37161**
Sommeria, J. *see* **Chavanis, Pierre-Henri**, **2004f:76074**
Spohn, Herbert *see* **Großkinsky, Stefan et al.**, **2004h:82007**
Sprott, Julien Clinton ★ Chaos and time-series analysis. **2004k:37063**
Sridhar, Srinivas *see* **Dhar, Abishek et al.**, **2004h:81105**
Stewart, Ian N. ★ Does God play dice? **2004b:37001**
Strelkova, Galina I. *see* **Anishchenko, Vadim S. et al.**
Stuart, A. M. *see* **Humphries, A. R.**, **2004h:37077**
Sutcliffe, Paul M. *see* **Battye, Richard A. et al.**, **2004e:70012**
Terzić, Balša (*with* Kandrup, Henry E.) Semi-analytic estimates of Lyapunov exponents in lower-dimensional systems. (English summary) **2004d:37080**
Torrealdea, F. J. *see* **Sarasola, C. et al.**, **2004a:37041**
Tóth, Imre Péter *see* **Bálint, Péter**, **2004h:37050**
Treshchëv, Dmitriĭ V. *see* **Kozlov, Valeriĭ V.**, **2004g:37070**
Turaev, D. (*with* Rom-Kedar, V.) Soft billiards with corners. (English summary) **2004f:37049**
Uçar, Ahmet (*with* Lonngren, Karl E.; Bai, Er-Wei) Synchronization of chaotic behavior in nonlinear Bloch equations. (English summary)
Uzer, T. *see* **Chandre, C. et al.**, **2004i:37160**
Vadivasova, T. E. *see* **Anishchenko, Vadim S. et al.**
Voss, H. U. Synchronization of reconstructed dynamical systems. (English summary) **2004a:37114**
Wagner, Wolfgang[1] *see* **Eibeck, Andreas**, **2004d:60248**
Wiggins, Stephen *see* **Chandre, C. et al.**, **2004i:37160**
Wojtkowski, Maciej P. Weyl manifolds and Gaussian thermostats. (English summary) **2004c:37155**
Wołowski, Lech *see* **Fannjiang, Albert C.**, **2004i:37103**
Yu, A. B. *see* **Zhu, Hai Ping**
Yu, Hong Jie (*with* Liu, Yanzhu) Chaotic synchronization based on stability criterion of linear systems. (English summary) **2004i:37072**
Yu, Zun Hong *see* **Liu, Hai Feng et al.**
Zanette, Damián H. *see* **Masoller, Cristina**, **2004e:37048**
Zannetti, Marco *see* **Corberi, F. et al.**, **2004g:82096**
Zaslavsky, George M. (*with* Edelman, M.) Pseudochaos. (English summary) **2004c:37211**
— *see also* **Lyubomudrov, O. et al.**, **2004k:37059**
Zegarliński, Bogusław Analysis of classical and quantum interacting particle systems. (English summary) (*see* **2004c:82079**)
Zhou, Changsong *see* **Kurths, Jürgen**, **2004j:37052**
Zhu, Hai Ping (*with* Yu, A. B.) The effects of wall and rolling resistance on the couple stress of granular materials in vertical flow. (English summary)
Zhusubaliev, Zh. T. (*with* Mosekilde, Erik) ★ Bifurcations and chaos in piecewise-smooth dynamical systems. **2004g:37044**
Zimmer, Frank *see* **Korsch, Hans Jürgen**, (**2004e:82001**)
Znamenski, Dmitri *see* **Meester, Ronald**, **2004j:60201**

82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)

Abal, G. *see* **Romanelli, A. et al.**
Abdalla, M. Sebawe (*with* Abdel-Aty, Mahmoud; Obada, Abdel-Shafy F.) Entropy and entanglement of time dependent two-mode Jaynes-Cummings model. (English summary) **2004g:82072**
Abdel-Aty, Mahmoud *see* **Abdalla, M. Sebawe et al.**, **2004g:82072**
Abdullaev, F. Kh. (*with* Bronski, Jared C.; Galimzyanov, R. M.) Dynamics of a trapped 2D Bose-Einstein condensate with periodically and randomly varying atomic scattering length. (English summary)
Accardi, Luigi (*with* Imafuku, Kentaro; Lu, Yun Gang) Onsager relation with the "slow" degrees of the field in the white noise equation based on stochastic limit. (English summary) **2004h:82065**
— (*with* Pechen, A. N.; Volovich, Igor V.) A stochastic golden rule and quantum Langevin equation for the low density limit. (English summary) **2004k:82057**
— *see also* **Quantum interacting particle systems**, **2004c:82079**
Adamian, G. G. *see* **Palchikov, Yu. V. et al.**, **2004a:82060**
Agudov, Nikolay V. (*with* Mannella, R.; Safonov, AlekseĭVladimirovich; Spagnolo, Bernardo) Noise delayed decay of unstable states: theory versus numerical simulations. (English summary)
Aissani, Amel (*with* Lendi, K.) Conditions for bounded solutions of non-Markovian quantum master equations. (English summary) **2004f:82041**
Alama, Stan (*with* Bronsard, Lia) Des vortex fractionnaires pour un modèle Ginzburg-Landau spineur. (English and French summaries) [Half-degree vortices for a spin-coupled Ginzburg-Landau model] **2004h:82066**
Alicki, Robert Information-theoretical meaning of quantum-dynamical entropy. (English summary) **2004a:82055**
Allakhverdyan, A. È. (*with* Nieuwenhuizen, Th. M.) Bath-generated work extraction and inversion-free gain in two-level systems. (English summary) **2004c:82071**
— *see also* **Nieuwenhuizen, Th. M.**, (**2004d:82002**)
Almeida, C. A. S. *see* **Pacheco, M. H. et al.**
Altafini, Claudio Positivity for matrix systems: a case study from quantum mechanics. (English summary) **2004j:82028**
An, Jun-Hong *see* **Wang, Shun Jin et al.**, **2004a:82061**
Antonenko, N. V. *see* **Palchikov, Yu. V. et al.**, **2004a:82060**
Arias-Hernández, L. A. (*with* Morales-Serrano, A. F.) Two quantum polytropic cycles. (English summary) (*see* **2004d:82002**)
Arnold, Anton (*with* Carrillo, José-Antonio; Dhamo, Elidon) On the periodic Wigner-Poisson-Fokker-Planck system. (English summary) **2004c:82072**
Avancini, S. S. (*with* Marinelli, J. R.; Krein, G.) Compositeness effects in the Bose-Einstein condensation. (English summary) **2004g:82073**
Bag, Bidhan Chandra *see* **Banerjee, Dhruba et al.**, **2004g:82074**
Bakhtieva, L. U. (*with* Ėskin, L. D.) The Parsons model and thermodynamic properties of a system of ellipsoidal particles. (Russian. Russian summary)

Banerjee, Dhruba (*with* Bag, Bidhan Chandra; Banik, Suman Kumar; Ray, Deb Shankar) Quantum Smoluchowski equation: escape from a metastable state. (English summary) **2004g:82074**

Banik, Suman Kumar *see* **Banerjee, Dhruba et al., 2004g:82074**

Baro, M. (*with* Neidhardt, Hagen) Dissipative Schrödinger-type operators as a model for generation and recombination. (English summary) **2004f:82042**

Benatti, Fabio (*with* Floreanini, Roberto; Romano, Raffaele) Complete positivity and dissipative factorized dynamics. (English summary) **2004a:82056**

Benfatto, G. (*with* Mastropietro, Vieri) On the density-density critical indices in interacting Fermi systems. (English summary) **2004c:82073**

Berman, G. P. *see* **Vishik, Misha, 2004h:82072**

Berry, Dominic W. (*with* Sanders, Barry C.) Bounds on general entropy measures. (English summary) **2004m:82082**

Bi, Qiao (*with* Ruda, H. E.; Zhan, Ming-Sheng; Zeng, Xiang Hua) Kinetic equation, non-perturbative approach and decoherence free subspace for quantum open system. (English summary) **2004g:82075**

Blanchard, Philippe (*with* Olkiewicz, Robert) Decoherence induced transition from quantum to classical dynamics. (English summary) **2004f:82043**

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Breuer, Heinz-Peter Quantum jumps and entropy production. (English summary) **2004k:82059**

Bronsard, Lia *see* **Alama, Stan, 2004h:82066**

Bronski, Jared C. *see* **Abdullaev, F. Kh. et al.**

Callens, I. (*with* De Roeck, Wojciech; Jacobs, Tim; Maes, Christian; Netočný, Karel) Quantum entropy production as a measure of irreversibility. (English summary) **2004m:82083**

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Caram, F. *see* **Sarris, C. et al.**

Cardy, John The stress tensor in quenched random systems. (English summary) (*see* **2004e:82003**)

Carrillo, José-Antonio *see* **Arnold, Anton et al., 2004c:82072**

Castro-Alvaredo, Olalla (*with* Fring, Andreas) From integrability to conductance, impurity systems. (English summary) **2004i:82036**

Chen, Jincan *see* **Su, Guozhen et al., 2004k:82062** *and* **Lin, Bihong**

Chen, Lixuan *see* **Su, Guozhen et al., 2004k:82062**

Chui, S. T. *see* **Liu, Wu-Ming, 2004h:82068**

Ciccotti, Giovanni *see* **Kapral, Raymond, 2004j:82030**

Combescure, Monique (*with* Robert, Didier) A semiclassical approach in linear response theory. (English summary) **2004a:82057**

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Cruzeiro-Hansson, Leonor *see* **Silva, Paulo A. S.**

D'Acunto, Mario Quantum mechanics, environmental fluctuations and Wigner function. (English and Italian summaries)

Dai, Wu-Sheng (*with* Xie, Mi) Quantum statistics of ideal gases in confined space. (English summary) **2004f:82044**

Deconinck, Bernard (*with* Kutz, J. Nathan; Patterson, Matthew S.; Warner, Brandon W.) Dynamics of periodic multi-component Bose-Einstein condensates. (English summary) **2004f:82045**

Degond, Pierre (*with* Ringhofer, Christian) Binary quantum collision operators conserving mass momentum and energy. (English and French summaries) **2004g:82077**

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De Roeck, Wojciech (*with* Jacobs, Tim; Maes, Christian; Netočný, Karel) An extension of the Kac ring model. (English summary)

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Dhamo, Elidon *see* **Arnold, Anton et al., 2004c:82072**

Dietz, Klaus P. Memory effects in long-time Lindblad motion. (English summary) **2004a:82058**

— On the parameterization of Lindblad equations. (English summary) **2004g:82078**

Donangelo, Raul *see* **Romanelli, A. et al.**

Duan, Yi-Shi (*with* Liu, Xin[5]; Zhang, Peng-Ming) Mermin-Ho vortices and monopoles in three-component spinor BEC. (English summary) **2004c:82074**

Ebeling, Werner (*with* Pohl, Thomas) Quantum wave packet dynamics: Langevin equations for Hamiltonian systems imbedded into a heat bath. (English summary) (*see* **2004d:82002**)

Englert, Berthold-Georg (*with* Morigi, Giovanna) Five lectures on dissipative master equations. (*see* **2004e:81003**)

Erdős, László (*with* Yau, Horng-Tzer) Derivation of the nonlinear Schrödinger equation from a many body Coulomb system. (English summary) **2004c:82075**

Ėskin, L. D. *see* **Bakhtieva, L. U.**

Fagnola, Franco (*with* Rebolledo, Rolando) Lectures on the qualitative analysis of quantum Markov semigroups. (*see* **2004c:82079**)

— *see also* **Quantum interacting particle systems, 2004c:82079**

Fendley, Paul Taking $N \to 0$ with S matrices. (English summary) (*see* **2004e:82003**)

Floreanini, Roberto *see* **Benatti, Fabio et al., 2004a:82056**

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Ford, G. W. (*with* O'Connell, R. F.) Decoherence at zero temperature. (English summary) **2004m:82085**

Fring, Andreas *see* **Castro-Alvaredo, Olalla, 2004i:82036**

Fröhlich, Jürg (*with* Merkli, M.; Schwarz, Simon; Ueltschi, D.) Statistical mechanics of thermodynamic processes. (*see* **2004j:81004**)

Fukushima, Noboru *see* **You, Sang Koo**

Gagne, Carmen J. (*with* Gleiser, Marcelo) Quantifying nonequilibrium behavior with varying quenching rates. (English summary)

Galimzyanov, R. M. *see* **Abdullaev, F. Kh. et al.**

Gleiser, Marcelo *see* **Gagne, Carmen J.**

Goldbaum, Pedro S. Lower bound for the segregation energy in the Falicov-Kimball model. (English summary) **2004d:82020**

Golovko, V. A. Hierarchy of equations for reduced density matrices at thermodynamic equilibrium with account taken of the spin of particles. (English summary) **2004f:82046**

Gorzhini, M. (*with* Sankovich, D. P.) Two-sided estimates for the internal energy of thermal photons. (Russian. Russian summary)

Granados García, Víctor *see* **Guzmán-Vargas, L. et al., (2004d:82002)**

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Hemmo, Meir (*with* Shenker, Orly R.) Quantum decoherence and the approach to equilibrium. (English summary) **2004g:82079**

Hida, Takeyuki (*with* Si Si) Innovation approach to some problems in quantum dynamics. (English summary) (*see* **2004j:81004**)

Holthaus, Martin *see* **Boers, Dave, (2004d:82001)**

Howard, I. A. (*with* March, N. H.) Relativistic effects when many independent fermions are confined in d dimensions. (English summary)

Imafuku, Kentaro *see* **Accardi, Luigi et al., 2004h:82065**

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Isar, A. (*with* Scheid, Werner) Uncertainty functions of the open quantum harmonic oscillator in the Lindblad theory. (English summary) **2004d:82021**

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Jacobs, Tim *see* **Callens, I. et al., 2004m:82083** *and* **De Roeck, Wojciech et al.**

Jia, Cheng-Long *see* **Wang, Shun Jin et al., 2004a:82061**

Just, Wolfram *see* **Sauermann, G., 2004h:82070**

Kaiser, Hans-Christoph (*with* Neidhardt, Hagen; Rehberg, Joachim) Macroscopic current induced boundary conditions for Schrödinger-type operators. (English summary) **2004j:82029**

Kapral, Raymond (*with* Ciccotti, Giovanni) A statistical mechanical theory of quantum dynamics in classical environments. (English summary) **2004j:82030**

Kato, Akiko[2] (*with* Muschik, W.; Schirrmeister, D.) Dynamics in quantum thermodynamics. (English summary) **2004g:82080**

Klimontovich, Yu. L. Quantum fluctuation dissipation relations and the second law. (English summary) (*see* **2004d:82002**)

Klimov, A. B. (*with* Romero, Juan Luis) An algebraic solution of Lindblad-type master equations. (English summary)

Konno, Norio (*with* Namiki, Takao; Soshi, Takahiro; Sudbury, Aidan) Absorption problems for quantum walks in one dimension. (English summary) **2004a:82059**

Kowalski, A. M. (*with* Plastino, Angel Luis; Proto, A. N.) Information theory and chaotic motion. (English summary)

Krein, G. *see* **Avancini, S. S. et al., 2004g:82073**

Kümmerer, Burkhard (*with* Maassen, Hans) An ergodic theorem for quantum counting processes. (English summary) **2004c:82076**

Kutz, J. Nathan *see* **Deconinck, Bernard et al., 2004f:82045**

Landim, R. R. *see* **Pacheco, M. H. et al.**

Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) Kinetic processes in quantum Bose gases and the analytical solution of boundary value problems. (Russian. English and Russian summaries) **2004h:82067**

Lendi, K. *see* **Aissani, Amel, 2004f:82041**

Liang, Jin-Rong *see* **Ren, Fu-Yao et al.**

Lin, Bihong (*with* Chen, Jincan) The influence of quantum degeneracy on the performance of a Fermi Brayton engine. (English summary)

Liu, Wu-Ming (*with* Chui, S. T.) Integrable models in Bose-Einstein condensates. (English summary) **2004h:82068**

Liu, Xin[5] *see* **Duan, Yi-Shi et al., 2004c:82074**

Lu, Yun Gang *see* **Accardi, Luigi et al., 2004h:82065**

Ługiewicz, P. (*with* Olkiewicz, Robert) Classical properties of infinite quantum open systems. (English summary) **2004i:82037**

Luo, Hong-Gang *see* **Wang, Shun Jin et al., 2004a:82061**

Lvov, Yuri V. (*with* Nazarenko, S. V.; West, Robert) Wave turbulence in Bose-Einstein condensates. (English summary) **2004m:82086**

Maassen, Hans *see* **Kümmerer, Burkhard, 2004c:82076**

Maes, Christian *see* **Callens, I. et al., 2004m:82083** *and* **De Roeck, Wojciech et al.**

Mäkelä, H. (*with* Zhang, Yunbo; Suominen, Kalle-Antti) Topological defects in spinor condensates. (English summary)

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Sandulescu, A. *see* **Isar, A. et al., 2004f:82047**
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82C20 Dynamic lattice systems (kinetic Ising, etc.) and systems on graphs

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Zia, R. K. P. *see* **Hipolito, R. S. et al.**
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Zolotaryuk, A. V. *see* **Maniadis, P. et al., 2004a:82063**
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Items with secondary classifications in 82C20

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Matthies, Karsten *see* **Friesecke, Gero, 2004b:37161**
Mertens, F. G. *see* **Caputo, J.-G. et al., 2004f:82052**
Moreira, J. G. *see* **Atman, A. P. F. et al., 2004b:82036**
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Sawada, Yasuji *see* **Ouchi, Noriyuki Bob et al., 2004j:92025**
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82C21 Dynamic continuum models (systems of particles, etc.)

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Escobedo, Miguel Gelation in coagulation and fragmentation models. (English and Spanish summaries)
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Kolokol′tsov, V. N. *see* **Belavkin, V. P., 2004h:82080**
Kozyrev, Sergei *see* **Accardi, Luigi, (2004c:82079)**
Landim, C. *see* **Bertini, L. et al., 2004j:82034**
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Vanden-Eijnden, Eric *see* **Fatkullin, Ibrahim, 2004e:82043**
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82C27 Dynamic critical phenomena

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82C28 Dynamic renormalization group methods [see also 81T17]

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Fülöp, Tamás *see* **Ván, Peter, 2004m:82114**
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Lima, Ricardo *see* **Floriani, E. et al.**
Liu, Kwok Leung *see* **So, F., 2004m:82113**
Löhn, C. *see* **Felderhof, B. U., 2004c:82092**
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Malagardis, Ioannis *see* **Sotirov, George, (2004h:93004)**
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— *see also* **Pottier, Noëlle**
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Mello, Bernardo de A. *see* **de Oliveira, Fernando Albuquerque et al.**
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Muniandy, S. V. *see* **Lim, S. C., 2004f:82061**
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Nobre, Fernando D. *see* **Curado, Evaldo M. F., 2004c:82091**
Nóbrega, R. A. *see* **de Oliveira, P. M. C. et al.**
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Osipov, V. Al. *see* **Avetisov, V. A. et al., 2004f:82055**
Papp, Gábor *see* **Gudowska-Nowak, Ewa et al.**
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Qiu, Wei Yuan *see* **Ren, Fu-Yao et al., 2004j:82038**
Quintero, Robert *see* **Guíñez, Jorge et al.**
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Rubí, J. M. *see* **Santamaría-Holek, I., 2004i:82047**
Rueda, Ángel *see* **Guíñez, Jorge et al.**
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Schmitt, Artur *see* **Odriozola, G. et al.**
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Stauffer, Dietrich *see* **de Oliveira, P. M. C. et al.**
Stornaiolo, Cosimo *see* **Bimonte, Giuseppe et al.**
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Titov, S. V. *see* **Coffey, W. T. et al., 2004m:82108**
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Tsallis, Constantino *see* **Anteneodo, Celia, 2004j:82036**
Turchetti, Giorgio *see* **Bazzani, Armando et al., 2004k:82075**
Unterreiter, A. *see* **Arnold, Anton, 2004m:82107**
Urbakh, M. *see* **Denisov, S. et al.**
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Verdaguer, Enric *see* **Calzetta, Esteban et al., 2004b:82038**
Vericat, Fernando *see* **Pintarelli, Maria B., 2004g:82103**
Vicsek, T. *see* **Néda, Z. et al., 2004f:82062**
Volchenkov, D. *see* **Floriani, E. et al.**
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Sadlej, Krzysztof *see* **Piasecki, Jarosław, 2004g:82071**
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Weiss, Laurens *see* **Mathis, Wolfgang, (2004h:00023)**
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82C32 Neural nets [see also 68T05, 91E40, 92B20]

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Dai, Binxiang *see* **Guo, Shangjiang et al., 2004i:82050**
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Nieuwenhuizen, Th. M. *see* **Bollé, D. et al.**
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82C35 Irreversible thermodynamics, including Onsager-Machlup theory

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82C40 Kinetic theory of gases

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— (*with* Wennberg, Bernt) Smoothness of the solution of the spatially homogeneous Boltzmann equation without cutoff. (English summary) **2004k:82086**
Dettmann, Carl P. The Burnett expansion of the periodic Lorentz gas. (English summary) **2004h:82091**
Doktorov, A. B. *see* **Kipriyanov, A. A.**
Dolbeault, Jean *see* **Ben Abdallah, Naoufel, 2004g:82109**
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Ern, Alexandre (*with* Giovangigli, Vincent) Kinetic theory of reactive gas mixtures with application to combustion. (English summary)
Ernst, M. H. (*with* Brito, R.) Scaling solutions of inelastic Boltzmann equations with over-populated high energy tails. (English summary) **2004h:82092**
Escobedo, Miguel (*with* Mischler, Stéphane; Valle Basagoiti, M. A.) ★ Homogeneous Boltzmann equation in quantum relativistic kinetic theory. (English summary) **2004f:82067**
Euler, Norbert *see* **Lindblom, Ove, 2004c:82106**
Feldman, Mikhail (*with* Ha, Seung-Yeal) Nonlinear functionals of multi-D discrete velocity Boltzmann equations. (English summary) **2004m:82121**
Fimin, N. N. (*with* Chuyanov, V. A.) Branching of solutions of the abstract kinetic equation. (Russian. Russian summary)
Frommlet, F. (*with* López, José Luis; Soler, Juan S.; Toscani, Giuseppe) Nonlinear rescaling, dispersion lemmas and conservation laws for some linear kinetic and quantum-kinetic problems. (English summary) **2004f:82068**
Galler, Martin² (*with* Rossani, A.; Schürrer, F.) Moment equations of a conservative multigroup approximation to the nonlinear 3D Boltzmann equation. (English summary)
Garzó, Vicente Nonlinear transport in inelastic Maxwell mixtures under simple shear flow. (English summary)
Gaspard, Pierre *see* **Claus, I. et al.**
(Gatignol, Renée) *see* **Lecture notes on the discretization of the Boltzmann equation, 2004m:82126**
Gerasīmenko, V. Ī. (*with* Ryabukha, T. V.) Dual nonequilibrium cluster expansions. (Ukrainian. English summary) **2004m:82122**
Giovangigli, Vincent *see* **Ern, Alexandre**
Golse, François *see* **Bouchut, François et al., 2004m:82119**
González Sánchez, Antonio *see* **Román, F. L. et al.**
Gorban′, A. N. *see* **Karlin, I. V., 2004e:82050**
Gordevskiĭ, V. D. Interaction of vortex-like flows of a gas of solid spheres. (Russian. English summary) **2004h:82093**
— Bimodal distributions with the spiral-type Maxwellians for the Bryan-Pidduck model. (English summary) **2004f:82069**
— Vortices in a gas of solid spheres. (Russian. Russian summary) **2004g:82116**
— On the non-stationary Maxwellians. (English summary) **2004k:82087**
Goudon, Thierry *see* **Cáceres, Maria J. et al., 2004g:82111**
Grilli, Luca Boltzmann-type equation in anelastic case: a convergence result. (English summary) **2004h:82094**
Groppi, Maria (*with* Rossani, A.; Spiga, G.) Generalized quasi-classical Boltzmann equation for homogeneous reacting gases. (English summary)
— *see also* **Banasiak, Jacek, 2004j:82039**
Gruber, Christian (*with* Morriss, Gary P.) A Boltzmann equation approach to the dynamics of the simple piston. (English summary)
Guérin, Hélène Solving Landau equation for some soft potentials through a probabilistic approach. (English summary) **2004c:82105**
Guo, Yan Classical solutions to the Boltzmann equation for molecules with an angular cutoff. (English summary) **2004i:82054**
— The Vlasov-Maxwell-Boltzmann system near Maxwellians. (English summary) **2004m:82123**
Ha, Seung-Yeal (*with* Tzavaras, Athanasios E.) L^1 stability for the one-dimensional Broadwell model of a discrete velocity gas. (English summary) (*see* **2004j:00016**)
— *see also* **Feldman, Mikhail, 2004m:82121**
Henkel, Malte *see* **Paessens, Matthias**
Illner, Reinhard (*with* Stoica, Cristina; Klar, Axel; Wegener, Raimund) Kinetic equilibria in traffic flow models. (English summary) **2004e:82049**
Karlin, I. V. (*with* Gorban′, A. N.) Hydrodynamics from Grad's equations: what can we learn from exact solutions? (English summary) **2004e:82050**
Ke, Jian-Hong (*with* Lin, Zhen-Quan) Kinetics and n-species aggregation chain model with complete annihilation. (English summary)
Kipriyanov, A. A. (*with* Doktorov, A. B.) A many-particle derivation of non-Markovian kinetic equations of reversible reaction $A + B \rightleftharpoons C$ in solutions based on the effective pairs approach. (English summary)
Klar, Axel *see* **Illner, Reinhard et al., 2004e:82049**
Kremer, G. M. *see* **Cercignani, Carlo, 2004g:82113**
Lachowicz, Mirosław *see* **Arlotti, Luisa et al., 2004k:82084**
Larralde, Hernán (*with* Leyvraz, F.; Mejia-Monasterio, C.) Transport properties of a modified Lorentz gas. (English summary)
Latocha, Vladimir *see* **Ben Abdallah, Naoufel et al., (2004j:00016)**
Latyshev, Anatoliĭ Vasil'evich (*with* Yushkanov, A. A.) Analytic solution of boundary value problems for the Shakhov equation with the collision frequency proportional to the molecule velocity. (Russian. Russian summary) **2004m:82124**
— (*with* Yushkanov, A. A.) The kinetic equation for quantum Fermi gases and an analytic solution of boundary value problems. (Russian. Russian summary) **2004j:82040**
Lebowitz, Joel Louis *see* **Bonetto, F. et al., 2004a:82081**
Lemou, Mohammed *see* **Crouseilles, Nicolas et al., 2004f:82066** *and* **Antoine, Xavier, 2004i:82052**
Leyvraz, F. *see* **Larralde, Hernán et al.**
Lin, Zhen-Quan *see* **Ke, Jian-Hong**
Lindblom, Ove (*with* Euler, Norbert) Solution of the Boltzmann equations for discrete velocities by means of the Bateman and Riccati equations. (Russian. Russian summary) **2004c:82106**
López, José Luis *see* **Frommlet, F. et al., 2004f:82068**
Louge, M. *see* **Xu, Haitao et al., 2004e:82052**
Lu, Xuguang *see* **Carlen, Eric A., 2004g:82112**
Lucquin-Desreux, Brigitte (*with* Mancini, Simona) A finite element approximation of grazing collisions. (English summary)
Luo, Li-Shi *see* **Yong, Wen-An, 2004f:82071**
Mancini, Simona *see* **Lucquin-Desreux, Brigitte**
Marinescu-Mazilu, Dorin On a Boltzmann model of fermions. (English summary)
Martínez-Gamba, Irene (*with* Panferov, Vladislav; Villani, Cédric) On the inelastic Boltzmann equation with diffusive forcing. (English summary) **2004f:82070**
Martynov, G. A. Thermodynamics and hydrodynamics (a statistical justification). III. Equations of hydrodynamics. (Russian. Russian summary) **2004k:82088**
— Thermodynamics and hydrodynamics (a statistical justification). IV. Kinetic processes in multicomponent systems. (Russian. Russian summary) **2004k:82089**
Mejia-Monasterio, C. *see* **Larralde, Hernán et al.**
Mischler, Stéphane *see* **Escobedo, Miguel et al., 2004f:82067**
Mongiovì, Maria Stella Gibbs equation in the nonlinear nonequilibrium thermodynamics of dilute nonviscous gases. (English summary)
Morriss, Gary P. *see* **Taniguchi, Tooru** *and* **Gruber, Christian**
Ono, Kosuke Asymptotic behavior for the Vlasov-Poisson-Fokker-Planck system and the collision-less Vlasov-Poisson system. (English summary) **2004g:82117**
Paessens, Matthias (*with* Henkel, Malte) The kinetic spherical model in a magnetic field. (English summary)
Pallard, Christophe *see* **Bouchut, François et al., 2004m:82119**
Panferov, Vladislav *see* **Martínez-Gamba, Irene et al., 2004f:82070**
Pasol, Laurentiu *see* **Cabannes, Henri et al., 2004a:82082**
Pettersson, Rolf On time-dependent and stationary solutions to the linear Boltzmann equation. (English summary) **2004m:82125**

Piasecki, Jarosław *see* **Cornu, F., 2004g:82114**
Pomeau, Yves Statistical mechanics of many interacting point masses in spherical geometry. (English summary)
Pulvirenti, Ada (*with* Toscani, Giuseppe) Asymptotic properties of the inelastic Kac model. (English summary) **2004k:82090**
Raĭnes, A. A. A method for solving the Boltzmann equation for a gas mixture in the case of cylindrical symmetry in the velocity space. (Russian. Russian summary) **2004i:82055**
Rasulova, M. Yu. The soliton solution of BBGKY'S chain of quantum kinetic equations for system of particles, interacting by delta potential. (English summary) **2004c:82107**
Reeves, Anthony P. *see* **Xu, Haitao et al., 2004e:82052**
Ricci, V. *see* **Bonetto, F. et al., 2004a:82081** *and* **Desvillettes, Laurent, 2004k:82085**
Roesner, Karl G. *see* **Cabannes, Henri et al., 2004a:82082**
Román, F. L. (*with* González Sánchez, Antonio; White, Juan A.; Velasco, Santiago) Velocity distributions for a hard-disk fluid in a small circular cavity: effect of the conservation of the total angular momentum. (English summary)
Rossani, A. *see* **Groppi, Maria et al.** *and* **Galler, Martin[2] et al.**
Ruocco, G. *see* **Zamponi, F. et al.**
Ryabukha, T. V. *see* **Gerasīmenko, V. Ī., 2004m:82122**
Salvarani, Francesco Diffusion limits for the initial-boundary value problem of the Goldstein-Taylor model. (English summary) **2004g:82118**
— *see also* **Desvillettes, Laurent, 2004g:82115**
Šanda, F. The instability in the long-time regime of a kinetic model. II. (English summary) **2004h:82095**
Saul, Lukas A. Spin waves as metric in a kinetic space-time. (English summary) **2004g:82119**
Savkov, S. A. (*with* Yushkanov, A. A.) Analytic solution of the kinetic equation in the problem of point sources in a diatomic gas. (Russian. Russian summary)
Schürrer, F. *see* **Galler, Martin[2] et al.**
Siewert, C. E. Heat transfer and evaporation/condensation problems based on the linearized Boltzmann equation. (English summary)
— Viscous-slip, thermal-slip, and temperature-jump coefficients as defined by the linearized Boltzmann equation and the Cercignani-Lampis boundary condition. (English summary) **2004c:82108**
Soler, Juan S. *see* **Frommlet, F. et al., 2004f:82068**
Spiga, G. *see* **Groppi, Maria et al.**
Stoica, Cristina *see* **Illner, Reinhard et al., 2004e:82049**
Takata, Shigeru *see* **Aoki, Kazuo[2] et al., 2004f:82065**
Talaalout, R. *see* **Ben Abdallah, Naoufel et al., (2004j:00016)**
Tang, Tong *see* **Ukai, Seiji et al., (2004j:00016)**
Taniguchi, Tooru (*with* Morriss, Gary P.) Boundary effects in the stepwise structure of the Lyapunov spectra for quasi-one-dimensional systems. (English summary)
Terada, Yayoi *see* **Tokuyama, Michio et al.**
Tidriri, M. D. Rigorous derivation and analysis of coupling of Boltzmann equations and their hydrodynamic limits for simplified models. (English summary) **2004b:82047**
Tokuyama, Michio (*with* Yamazaki, Hiroyuki; Terada, Yayoi) Universal effects of collective interactions on long-time self-diffusion coefficients in hard-sphere systems. (English summary)
Toscani, Giuseppe *see* **Bobylev, A. V. et al., 2004d:82032**; **Frommlet, F. et al., 2004f:82068** *and* **Pulvirenti, Ada, 2004k:82090**
Tzavaras, Athanasios E. *see* **Ha, Seung-Yeal, (2004j:00016)**
Ukai, Seiji (*with* Tang, Tong; Yu, Shih-Hsien) Nonlinear boundary layers of the Boltzmann equation. (*see* **2004j:00016**)
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Valle Basagoiti, M. A. *see* **Escobedo, Miguel et al., 2004f:82067**
Valougeorgis, Dimitris An analytical solution of the S-model kinetic equations. (English summary) **2004e:82051**
Velasco, Santiago *see* **Román, F. L. et al.**
Vignal, Marie Hélène *see* **Ben Abdallah, Naoufel et al., (2004j:00016)**
Villani, Cédric Cercignani's conjecture is sometimes true and always almost true. (English summary) **2004b:82048**
— *see also* **Martínez-Gamba, Irene et al., 2004f:82070** *and* **Desvillettes, Laurent, 2004i:82053**
Wegener, Raimund *see* **Illner, Reinhard et al., 2004e:82049**
Wennberg, Bernt *see* **Desvillettes, Laurent, 2004k:82086**
White, Juan A. *see* **Román, F. L. et al.**
Xu, Haitao (*with* Louge, M.; Reeves, Anthony P.) Solutions of the kinetic theory for bounded collisional granular flows. (English summary) **2004e:82052**
Yamazaki, Hiroyuki *see* **Tokuyama, Michio et al.**
Yang, Tong *see* **Ukai, Seiji et al., 2004j:82041**
Yong, Wen-An (*with* Luo, Li-Shi) Nonexistence of H theorems for the athermal lattice Boltzmann models with polynomial equilibria. (English summary) **2004f:82071**
Yu, Shih-Hsien *see* **Ukai, Seiji et al., 2004j:82041** *and* **(2004j:00016)**
Yushkanov, A. A. *see* **Latyshev, Anatoliĭ Vasil'evich, 2004j:82040**; **2004m:82124** *and* **Savkov, S. A.**
Zamponi, F. (*with* Ruocco, G.; Angelani, L.) Fluctuations of entropy production in the isokinetic ensemble. (English summary)

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Lecture notes on the discretization of the Boltzmann equation ★ Lecture notes on the discretization of the Boltzmann equation. **2004m:82126**

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Agarwal, Ramesh K. BGK-Burnett equations: a new set of second-order hydrodynamic equations for flows in continuum-transition regime. (English summary) **2004k:76106**
Amirov, A. Kh. ★ Integral geometry and inverse problems for kinetic equations. (English summary) **2004i:35307**
Andréasson, Håkan The Einstein-Vlasov system/kinetic theory. (English summary) **2004c:83009**
Aristov, Vladimir Vladimirovich ★ Direct methods for solving the Boltzmann equation and study of nonequilibrium flows. **2004a:76120**
Arkeryd, Leif (*with* Nouri, Anne) The stationary Boltzmann equation in $\mathbb{R}^n$ with given indata. (English summary) **2004m:35040**
(Arnold, Anton) *see* **Transport in transition regimes, 2004j:82002**
de Assis, Altair S. *see* **Grishanov, Nikolay I. et al., 2004b:82055**
de Azevedo, Carlos A. *see* **Grishanov, Nikolay I. et al., 2004b:82055**
Banasiak, Jacek Multiple solutions to linear kinetic equations. (English summary) **2004j:82033**
Banda, Mapundi K. (*with* Junk, Michael; Klar, Axel) A limiter based on kinetic theory. (English summary) **2004a:82092**
Bardakov, V. G. Reconstruction of the right-hand part of kinetic equation. (English summary) **2004h:35219**
Barletti, Luigi *see* **Busoni, Giorgio, 2004e:82058**
Barrett, T. M. *see* **Broadbridge, P., (2004m:00011)**
Bednorz, Adam (*with* Cichocki, Bogdan) General H-theorem for hard spheres. (English summary) **2004m:82074**
Bellomo, Nicola (*with* Mamontov, Yevgeny V.; Willander, M.) The generalized kinetic modelling of a multicomponent "real-life" fluid by means of a single distribution function. (English summary) **2004m:76003**
— (*with* Bellouquid, Abdelghani) From a class of kinetic models to the macroscopic equations for multicellular systems in biology. (English summary) **2004k:92013**
Bellouquid, Abdelghani *see* **Bellomo, Nicola, 2004k:92013**
(Ben Abdallah, Naoufel) *see* **Transport in transition regimes, 2004j:82002**
Bennett, Curtis D. (*with* Zirbel, Craig L.) Discrete velocity fields with explicitly computable Lagrangian law. (English summary) **2004a:82093**
Biello, Joseph A. *see* **Kramer, Peter R. et al., 2004i:82034**
Boatto, Stefanella (*with* Golse, François) Diffusion approximation of a Knudsen gas model: dependence of the diffusion constant upon the boundary condition. (English summary) **2004b:76130**
Boldrighini, Carlo (*with* Bunimovich, Leonid; Pellegrinotti, Alessandro) Some estimates for 2-dimensional infinite and bounded dilute random Lorentz gases. (English summary) **2004e:82053**
Brey, J. Javier *see* **Dufty, James W., 2004b:82049**
Broadbridge, P. (*with* Barrett, T. M.) Exact axisymmetric solution for temperature-dependent compressible Navier-Stokes equations. (English summary) (*see* **2004m:00011**)
Bunimovich, Leonid *see* **Boldrighini, Carlo et al., 2004e:82053**
Busoni, Giorgio (*with* Barletti, Luigi) A kinetic model of a dusty plasma with discrete charges. (English summary) **2004e:82058**
Caglioti, Emanuele (*with* Golse, François) On the distribution of free path lengths for the periodic Lorentz gas. III. (English summary) **2004h:82060**
Cercignani, Carlo Recent results in the kinetic theory of granular materials. (English summary) **2004b:76146**
— Ivan Kuščer and gas-surface interaction. (English summary)
Chavanis, Pierre-Henri Statistical mechanics of two-dimensional vortices and stellar systems. (English summary) (*see* **2004d:82001**)
Chekmarev, I. B. (*with* Chekmareva, O. M.) Multiscale expansion method in the Hilbert problem. (Russian. Russian summary) **2004j:82044**
Chekmareva, O. M. *see* **Chekmarev, I. B., 2004j:82044**
Cichocki, Bogdan *see* **Bednorz, Adam, 2004m:82074**
Clerc, Jean Pierre *see* **Zekri, Lotfi et al.**
Coffey, W. T. (*with* Kalmykov, Yu. P.; Titov, S. V.) Langevin equation method for the rotational Brownian motion and orientational relaxation in liquids. II. Symmetrical top molecules. (English summary) **2004m:82108**
Degond, Pierre (*with* Ringhofer, Christian) Binary quantum collision operators conserving mass momentum and energy. (English and French summaries) **2004g:82077**
— (*with* Lemou, Mohammed; López, José Luis) A kinetic description of anisotropic fluids with multivalued internal energy. (English summary) **2004m:76135**
— (*with* Lemou, Mohammed; Picasso, Marco) Constitutive relations for viscoelastic fluid models derived from kinetic theory. (English summary) **2004k:76011**
— *see also* **Transport in transition regimes, 2004j:82002**
Dellacherie, Stéphane On the Wang Chang-Uhlenbeck equations. (English summary) **2004g:82040**
Domaingo, A. *see* **Rossani, A. et al., 2004k:82104**
Dorodnitsyn, L. V. The entropy theorem for a family of quasi-gas-dynamic systems of equations. (Russian. English and Russian summaries) **2004a:76117**
Dufour, Guillaume (*with* Massot, Marc; Villedieu, Philippe) Étude d'un modèle de fragmentation secondaire pour les brouillards de gouttelettes. (English and French summaries) [Study of a secondary breakup model for sprays] **2004d:76106**
Dufty, James W. (*with* Brey, J. Javier) Green-Kubo expressions for a granular gas. (English summary) **2004b:82049**
Eibeck, Andreas (*with* Wagner, Wolfgang[1]) Stochastic interacting particle systems and nonlinear kinetic equations. (English summary) **2004d:60248**
Filbet, Francis (*with* Russo, Giovanni) High order numerical methods for the space non-homogeneous Boltzmann equation. (English summary) **2004c:82116**
Garcia, Alejandro L. (*with* Wagner, Wolfgang[1]) Some new properties of the kinetic equation for the consistent Boltzmann algorithm. (English summary) **2004b:82051**
(Glassey, Robert T.) *see* **Transport in transition regimes, 2004j:82002**
Golse, François *see* **Boatto, Stefanella, 2004b:76130** *and* **Caglioti, Emanuele, 2004h:82060**
Goudon, Thierry (*with* Mellet, Antoine) Homogenization and diffusion asymptotics of the linear Boltzmann equation. (English summary) **2004i:35029**
Grishanov, Nikolay I. (*with* de Azevedo, Carlos A.; de Assis, Altair S.; Neto, Joaquim Pereira) Kinetic equation for charged particles in axisymmetric two-dimensional magnetized plasmas. (English summary) **2004b:82055**
Guérin, Hélène Existence and regularity of a weak function-solution for some Landau equations with a stochastic approach. (English summary) **2004e:60112**
Guo, Yan The Landau equation in a periodic box. (English summary) **2004c:82121**
Ha, Seung-Yeal (*with* Tzavaras, Athanasios E.) Lyapunov functionals and L^1-stability for discrete velocity Boltzmann equations. (English summary) **2004g:82126**
— L^1 stability estimate for a one-dimensional Boltzmann equation with inelastic collisions. (English summary) **2004h:35035**
Hadjiconstantinou, Nicolas G. Comment on Cercignani's second-order slip coefficient.

(English summary) **2004e:76098**
He, Xiaoyi *see* **Xu, Kun**, **2004m:76128**
Horsin-Molinaro, Thierry (*with* Mischler, Stéphane; Vasseur, Alexis) On the convergence of numerical schemes for the Boltzmann equation. (English and French summaries) **2004d:82034**
Hwang, Seok Kinetic decomposition for kinetic models of BGK type. (English summary) **2004b:35220**
Ibraghimov, Ilghiz (*with* Rjasanow, Sergej) Numerical solution of the Boltzmann equation on the uniform grid. (English summary) **2004i:82060**
Jabin, Pierre-Emmanuel (*with* Vega, Luis) Averaging lemmas and the X-ray transform. (English and French summaries) **2004j:35045**
Jin, Shi (*with* Pareschi, Lorenzo; Slemrod, Marshall) A relaxation scheme for solving the Boltzmann equation based on the Chapman-Enskog expansion. (English summary) **2004i:76165**
Junk, Michael (*with* Yong, Wen-An) Rigorous Navier-Stokes limit of the lattice Boltzmann equation. (English summary) **2004m:76004**
— *see also* **Banda, Mapundi K. et al.**, **2004a:82092**
Kalmykov, Yu. P. *see* **Coffey, W. T. et al.**, **2004m:82108**
Kavian, Otared Remarks on the Kompaneets equation, a simplified model of the Fokker-Planck equation. **2004b:82040**
Klar, Axel *see* **Banda, Mapundi K. et al.**, **2004a:82092**
Kramer, Peter R. (*with* Biello, Joseph A.; Lvov, Yuri V.) Application of weak turbulence theory to FPU model. (English summary) **2004i:82034**
(Kuščer, Ivan) *see* **Cercignani, Carlo**
Lemou, Mohammed *see* **Degond, Pierre et al.**, **2004k:76011** *and* **2004m:76135**
(Levermore, C. David) *see* **Transport in transition regimes**, **2004j:82002**
Liu, Tai-Ping (*with* Yu, Shih-Hsien) Energy method for equations in gas dynamics. (English summary) (*see* **2004j:00016**)
López, José Luis *see* **Degond, Pierre et al.**, **2004m:76135**
Lvov, Yuri V. *see* **Kramer, Peter R. et al.**, **2004i:82034**
Mamontov, Yevgeny V. *see* **Bellomo, Nicola et al.**, **2004m:76003**
Manzi, Guido (*with* Marra, Rossana) A kinetic model of interface motion. (English summary)
Marra, Rossana *see* **Manzi, Guido**
(Martínez-Gamba, Irene) *see* **Transport in transition regimes**, **2004j:82002**
Martynov, G. A. Thermodynamics and hydrodynamics (a statistical justification). I. Formulation of the problem. (Russian. Russian summary) **2004k:82004**
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Masmoudi, Nader From Vlasov-Poisson system to the incompressible Euler system. (English summary) **2004c:82123**
— (*with* Saint Raymond, Laure) From the Boltzmann equation to the Stokes-Fourier system in a bounded domain. (English summary) **2004d:76090**
Massot, Marc *see* **Dufour, Guillaume et al.**, **2004d:76106**
Mel'let, Antoine *see* **Goudon, Thierry**, **2004i:35029**
Mezić, Igor *see* **Newton, Paul K.**, **2004m:76093**
Mikhailov, Gennadii A. (*with* Rogazinskiĭ, S. V.) Correction to: "Weighted Monte Carlo methods for the approximate solution of the nonlinear Boltzmann equation" [Sibirsk. Mat. Zh. **43** (2002), no. 3, 620–628; MR 2003h:82083]. (Russian) **2004e:82056**
Mischler, Stéphane *see* **Horsin-Molinaro, Thierry et al.**, **2004d:82034**
Muriel, Amador Quantum kinetic model of turbulence. (English summary) (*see* **2004c:00016**)
Nachtergaele, Bruno (*with* Yau, Horng-Tzer) Derivation of the Euler equations from many-body quantum mechanics. (English summary) **2004c:82077**
Naldi, Giovanni (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Spectral methods for one-dimensional kinetic models of granular flows and numerical quasi elastic limit. (English summary) **2004d:65117**
Naris, Stergios *see* **Valougeorgis, Dimitris**
Nekrutkin, V. Kac particle systems with free motion and equations of Boltzmann type. (English summary) **2004d:60169**
Neto, Joaquim Pereira *see* **Grishanov, Nikolay I. et al.**, **2004b:82055**
Newton, Paul K. (*with* Mezić, Igor) Non-equilibrium statistical mechanics for a vortex gas. (English summary) **2004m:76093**
Nishibata, Shinya Asymptotic stability of traveling waves to a certain discrete velocity model of the Boltzmann equation in the half space. (English summary) **2004e:35029**
Nouri, Anne The evolution of a gas in a radiation field from a kinetic point of view. (English summary) (*see* **2004j:82002**)
— *see also* **Arkeryd, Leif**, **2004m:35040**
Panja, Debabrata An elementary proof of Lyapunov exponent pairing for hard-sphere systems at constant kinetic energy. (English summary) **2004c:82069**
Pareschi, Lorenzo *see* **Naldi, Giovanni et al.**, **2004d:65117** *and* **Jin, Shi et al.**, **2004i:76165**
Pellegrinotti, Alessandro *see* **Boldrighini, Carlo et al.**, **2004e:82053**
Picasso, Marco *see* **Degond, Pierre et al.**, **2004k:76011**
Ringhofer, Christian *see* **Degond, Pierre**, **2004g:82077** *and* **Transport in transition regimes**, **2004j:82002**
Rjasanow, Sergej *see* **Ibraghimov, Ilghiz**, **2004i:82060**
Rogazinskiĭ, S. V. *see* **Mikhailov, Gennadii A.**, **2004e:82056**
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82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [see also 60G50]

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82C43 Time-dependent percolation [see also 60K35]

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82C70 Transport processes

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Umpleby, A. P. *see* **Pain, C. C. et al.**
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Vasseur, Alexis *see* **Poupaud, Frédéric, 2004k:82099**
Vauchelet, Nicolas *see* **Ben Abdallah, Naoufel et al., 2004a:82089**
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— *see also* **Busoni, Giorgio, 2004e:82058** *and* **Demeio, Lucio et al., 2004i:82067**
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Mulholland, Anthony J. *see* **Abdulbake, Janan et al., 2004j:35142**
Muscato, Orazio *see* **Carrillo, José-Antonio et al., (2004j:82002)**
Naboko, Sergei N. *see* **Kuperin, Yu. A. et al., 2004a:47011**
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Raimondi, Roberto *see* **Schwab, Peter, 2004h:82105**
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Rasmussen, Steen *see* **Nilsson, Martin**, (**2004e:00010**)

Rjasanow, Sergej *see* **Ibraghimov, Ilghiz**, **2004i:82060**

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Georgiadis, John G. *see* **Holdych, David J. et al., 2004j:76124**
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Rahnema, Farzad *see* **Ilas, Dan**
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(Schreiber, Michael) *see* **Computational statistical physics, 2004e:82001**
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Schütz, Gunter M. *see* **Popkov, Vladislav, 2004f:82049**
Scoppola, E. *see* **den Hollander, Frank et al., 2004f:60206**
Sekerka, Robert F. *see* **Sofonea, Victor, 2004h:76125**
Selberherr, S. *see* **Kosina, H. et al.**
Sellitto, Mauro *see* **Arenzon, Jeferson J. et al., 2004h:82074**
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Sokal, Alan D. *see* **Ossola, Giovanni**
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Takahashi, S. *see* **Matsubara, F. et al.**
Talaalout, R. *see* **Ben Abdallah, Naoufel et al., (2004j:00016)**
Tang, Shaoqiang *see* **Aregba-Driollet, D. et al., 2004m:65136**
Tél, Tamás *see* **Vollmer, Jürgen et al.**
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Zhidkov, E. P. *see* **Lobanov, Yu. Yu., 2004m:81285**
Zia, R. K. P. *see* **Hipolito, R. S. et al.**
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82C99 None of the above, but in this section

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de Abreu Sá, Leonardo *see* **Ramos, Fernando M. et al., 2004d:82036**
Allison, Andrew *see* **Lee, Youngki et al.**
Arrayás, M. *see* **Ebert, Ute, (2004c:00016)**
Bolzan, Mauricio J. A. *see* **Ramos, Fernando M. et al., 2004d:82036**
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Hu, Chin-Kun *see* **Povolotsky, A. M. et al.**
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Tong, W. S. *see* **Perepezko, J. H., 2004h:82101**
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Cunha, F. V., Jr. *see* **Veerman, J. J. P. et al., 2004e:37134**
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Majda, Andrew J. *see* **Abramov, Rafail V., 2004b:86006**
Marsili, Matteo *see* **Kozłowski, Piotr, 2004k:91021**
Mega, Mirko S. *see* **Bonanno, Claudio, 2004m:11145**
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Monk, Nicholas A. M. *see* **Page, Karen M. et al.**
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Redner, S. *see* **Ben-Naim, E. et al., 2004m:91198**
Ren, Yong[2] *see* **Liu, Feng[1] et al., 2004h:68009**
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Snoeijer, Jacco H. (*with* van Leeuwen, J. M. J.) Force relaxation in the q-model for granular media. (English summary) **2004b:82066**
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Toral, Raúl *see* **Klemm, Konstantin et al., 2004j:91211**
Vasconcelos, G. L. *see* **Veerman, J. J. P. et al., 2004e:37134**
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Noble, L. *see* **Man, Chi-Sing**, **2004e:82060**
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Nakamura, Ken-Ichi *see* **Ogiwara, Toshiko**, **2004m:35152**
(Neder, Reinhard B.) *see* **Stróż, Kazimierz**
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Paras, Agnes T. *see* **De las Peñas, Louise Antonette**
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Rotter, Ingrid *see* **Okołowicz, J. et al., 2004g:82082**
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Yaghi, Omar M. *see* **Delgado Friedrichs, Olaf et al., 2004i:52019**
Zanzotto, G. *see* **Pitteri, Mario, 2004m:74095**
Zich, J. *see* **Masáková, Z. et al., 2004a:52041** *and* **2004a:52042**

82D30 Random media, disordered materials (including liquid crystals and spin glasses)

de Almeida, R. M. C. *see* **Lemke, N., 2004g:82133**
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Foltin, Georg Signed zeros of Gaussian vector-fields—density, correlation functions and curvature. (English summary) **2004a:82099**
Fontanari, José F. *see* **Hordijk, Wim et al., 2004d:82039**
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Giardina, Irene *see* **Annibale, Alessia et al., 2004m:82146** *and* **Cavagna, Andrea et al.**
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Parisi, Giorgio Local overlaps, heterogeneities and the local fluctuation dissipation relations. (English summary) **2004j:82047**
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Stadler, Peter F. *see* **Hordijk, Wim et al., 2004d:82039**
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Vasilyev, O. A. *see* **Nechaev, Sergei, 2004k:82111**
Virga, Epifanio G. *see* **Sonnet, André M. et al.**
Wei, Juncheng *see* **Ren, Xiaofeng, 2004m:82148**

Items with secondary classifications in 82D30

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82D55 Superconductors

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82D60 Polymers

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82D75 Nuclear reactor theory; neutron transport

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83–XX Relativity and gravitational theory

83–01 Instructional exposition (textbooks, tutorial papers, etc.)

Durell, Clement V. ★ Readable relativity.
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Naber, Gregory L. ★ The geometry of Minkowski spacetime. **2004i:83007**
Oliver, David ★ The shaggy steed of physics. **2004h:00010**
Thorne, Kip Warping spacetime.
Williams, W. S. C. ★ Introducing special relativity. **2004f:83001**

83–02 Research exposition (monographs, survey articles)

Hartle, James Theories of everything and Hawking's wave function of the universe.
Susskind, Leonard Twenty years of debate with Stephen.

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Fujii, Yasunori (*with* Maeda, Kei-ichi) ★ The scalar-tensor theory of gravitation. **2004a:83051**
Gibbons, Gary W. Euclidean quantum gravity: the view from 2002.
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Deser, Stanley P. A. M. Dirac and the development of modern general relativity. (English summary) (*see* **2004k:81004**)
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(Kaluza, Theodor Franz Eduard) *see* **Wuensch, Daniela, 2004k:83001**
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Wuensch, Daniela The fifth dimension: Theodor Kaluza's ground-breaking idea. (English summary) **2004k:83001**

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Biography:
Kaluza, Theodor Franz Eduard *see* **Wuensch, Daniela, 2004k:83001**

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(Aleksandrov, Aleksandr Danilovich) *see* **Guts, A. K., 2004d:01032**
Balashov, Yu. V. The concept of a stationary universe: sources, evolution, and methodological lessons. (Russian) (*see* **2003i:01001**)
(Bergmann, Peter Gabriel) *see* **Schmutzer, Ernst**
(Cartan, Élie) *see* **Czajko, Jakub, 2004j:53002**
Czajko, Jakub Elie Cartan and pan-geometry of multispatial hyperspace. (English summary) **2004j:53002**
(Eddington, Arthur Stanley) *see* **Ryckman, T. A., 2004k:00006**
(Einstein, Albert) *see* **Galison, Peter, 2004j:01007**; **Hon, Giora, 2004k:00010** *and* **Lehti, Raimo**
Franklin, Allan Doing much about nothing.
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(Gödel, Kurt Friedrich) *see* **Guts, A. K., 2004d:01032** *and* **Hon, Giora, 2004k:00010**
Guts, A. K. Gödel's time machine and the Aleksandrov problem. (Russian. English summary) **2004d:01032**
Hannon, Robert J. Einstein's 1905 derivation of his transformations of coordinates and times. (English and French summaries)
Hon, Giora Gödel, Einstein, Mach: casting constraints on all-embracing concepts. (English summary) **2004k:00010**
(Lanczos, Cornelius) *see* **Sachs, Mendel, 2004d:01038**
Lehti, Raimo Einstein, continuous fields, and doubting them. (Finnish)
(Mach, E.) *see* **Hon, Giora, 2004k:00010**
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Ryckman, T. A. Surplus structure from the standpoint of transcendental idealism: the "world geometries" of Weyl and Eddington. **2004k:00006**
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Schmutzer, Ernst Peter Gabriel Bergmann—outstanding scientist and good friend.
(Weyl, Hermann) *see* **Ryckman, T. A., 2004k:00006**

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Biography:
Lanczos, Cornelius *see* **Sachs, Mendel, 2004d:01038**
Obituary:
Bergmann, Peter Gabriel *see* **Schmutzer, Ernst**

83–04 Explicit machine computation and programs (not the theory of computation or programming)

Diener, Peter A new general purpose event horizon finder for 3D numerical spacetimes. (English summary) **2004m:83001**
Vulcanov, Dumitru N. Calculation of the Dirac equation in curved spacetimes with possible torsion using MAPLE and REDUCE. (English summary) **2004g:83001**

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Alcubierre, Miguel (*with* Brügmann, Bernd; Diener, Peter; Koppitz, Michael; Pollney, Denis; Seidel, Edward; Takahashi, Ryoji) Gauge conditions for long-term numerical black hole evolutions without excision. (English summary) **2004m:83004**
Bartnik, Robert A. (*with* Norton, Andrew H.) Numerical experiments at null infinity. (English summary) **2004h:83024**
Brügmann, Bernd *see* **Alcubierre, Miguel et al., 2004m:83004**
Calabrese, Gioel (*with* Lehner, Luis; Neilsen, David W.; Pullin, Jorge; Reula, Oscar; Sarbach, Olivier; Tiglio, Manuel) Novel finite-differencing techniques for numerical relativity: application to black-hole excision. (English summary) **2004m:83005**
Carminati, John *see* **Vu, Khai, 2004a:83043**
Choptuik, Matthew W. (*with* Hirschmann, Eric W.; Liebling, Steven L.; Pretorius, Frans) An axisymmetric gravitational collapse code. (English summary) **2004d:83003**
Chu, Kenneth C.-K. (*with* Czapor, S. R.; McLenaghan, Raymond G.) Huygens' principle and MAPLE's NPspinor package. (English summary) **2004h:83059**
Czapor, S. R. *see* **Chu, Kenneth C.-K. et al., 2004h:83059**
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Font, José A. Local characteristic algorithms for relativistic hydrodynamics. (English summary) **2004i:83059**
— *see also* **Siebel, Florian et al., 2004i:83003**
Hirschmann, Eric W. *see* **Choptuik, Matthew W. et al., 2004d:83003**
Koppitz, Michael *see* **Alcubierre, Miguel et al., 2004m:83004**
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McLenaghan, Raymond G. *see* **Chu, Kenneth C.-K. et al., 2004h:83059**
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Siebel, Florian (*with* Font, José A.; Müller, Ewald; Papadopoulos, Philippos) Axisymmetric core collapse simulations using characteristic numerical relativity. (English summary) **2004i:83003**
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Vu, Khai (*with* Carminati, John) The GHP II package with applications. (English summary) **2004a:83043**

83–05 Experimental work

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Dittus, Hansjörg (*with* Lämmerzahl, Claus; Selig, Hanns) Testing the universality of free fall for charged particles in space. (English summary)
Lämmerzahl, Claus *see* **Dittus, Hansjörg et al.**
Selig, Hanns *see* **Dittus, Hansjörg et al.**
Tartaglia, Angelo Sagnac, gclock effect and gravitomagnetism. (English summary) **2004i:83009**

83–06 Proceedings, conferences, collections, etc.

(Ahluwalia-Khalilova, D. V.) *see* **Review papers and selected papers from the Gravity Research Foundation annual essay competition**
(Bekenstein, Jacob D.) *see* **Invited papers dedicated to Jacob Bekenstein**
(Berger, Beverly K.) *see* **Spacetime safari: essays in honour of Vincent Moncrief**
(Bretón Báez, Nora) *see* **Workshop: Gravitation and Mathematical Physics**
(Cervantes-Cota, Jorge L.) *see* **Workshop: Gravitation and Mathematical Physics**
(Cianci, Roberto) *see* **Recent developments in general relativity, 2004g:83002**
(Collina, R.) *see* **Recent developments in general relativity, 2004g:83002**
(Feng, Leon) *see* **Some new theories about time and space**
(Fiziev, P. P.) *see* **Gravity, astrophysics, and strings@the Black Sea, 2004d:83002**
(Francaviglia, Mauro) *see* **Recent developments in general relativity, 2004g:83002**

(Frauendiener, Jörg) *see* **Conformal structure of space-time, 2004d:83001**
(Fré, Pietro) *see* **Recent developments in general relativity, 2004g:83002**
(Friedrich, Helmut) *see* **Conformal structure of space-time, 2004d:83001**
(Gibson, B. Paul) *see* **Some new theories about time and space**
(Horwitz, Lawrence P.) *see* **Invited papers dedicated to Jacob Bekenstein**
(Isenberg, James A.) *see* **Spacetime safari: essays in honour of Vincent Moncrief**
(Lin, Yi³) *see* **Some new theories about time and space**
(Maeda, Kei-ichi) *see* **Brane world: new perspective in cosmology**
(Mitskevich, Nikolai Vsevolodovich) *see* **Workshop: Gravitation and Mathematical Physics**
(Moncrief, Vincent) *see* **Spacetime safari: essays in honour of Vincent Moncrief**
(Nath, Pran) *see* **SUGRA20, 2004m:83003**
(Parijskij, Yuri N.) *see* **Early universe and the cosmic microwave background: theory and observations, 2004m:83002**
(Ruffini, Remo) *see* **Nonlinear gravitodynamics, 2004j:83001**
(Salgado, Marcelo) *see* **Workshop: Gravitation and Mathematical Physics**
(Sanchez, Norma G.) *see* **Early universe and the cosmic microwave background: theory and observations, 2004m:83002**
(Sasaki, Misao) *see* **Brane world: new perspective in cosmology**
(Sigismondi, Constantino) *see* **Nonlinear gravitodynamics, 2004j:83001**
(Todorov, M. D.) *see* **Gravity, astrophysics, and strings@the Black Sea, 2004d:83002**

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Brane world: new perspective in cosmology ★ Brane world: new perspective in cosmology.
Chapala ★ Fourth Workshop on Gravitation and Mathematical Physics.
Classical, stochastic and quantum gravity, string and brane cosmology ★ {Classical, stochastic and quantum gravity, string and brane cosmology}.
Conference:
  General Relativity and Gravitational Physics ★ Recent developments in general relativity, Genoa 2000. **2004g:83002**
Conformal structure of space-time ★ The conformal structure of space-time. **2004d:83001**
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Festschrift:
  Bekenstein, Jacob David ★ {Invited papers dedicated to Jacob Bekenstein. Part III}.
  Mitskevich, Nikolai Vsevolodovich ★ Fourth Workshop on Gravitation and Mathematical Physics.
Genoa ★ Recent developments in general relativity, Genoa 2000. **2004g:83002**
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Kiten ★ Gravity, astrophysics, and strings@the Black Sea. **2004d:83002**
Kyoto ★ Brane world: new perspective in cosmology.
Lecture Notes in Physics ★ The conformal structure of space-time. **2004d:83001**
Meeting:
  Relativistic Gravitational Experiments in Space ★ Nonlinear gravitodynamics. **2004j:83001**
Nonlinear gravitodynamics ★ Nonlinear gravitodynamics. **2004j:83001**
Palermo ★ The early universe and the cosmic microwave background: theory and observations. **2004m:83002**
Pescara ★ Nonlinear gravitodynamics. **2004j:83001**
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Proceedings:
  Gravitational Conference ★ Proceedings of the 11th Russian Gravitational Conference and the International Workshop "Gravity, Strings and Quantum Field Theory".
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SUGRA20 ★ SUGRA20. **2004m:83003**
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Workshop:
  Gravitation and Mathematical Physics ★ Fourth Workshop on Gravitation and Mathematical Physics.
  Gravity, Strings and Quantum Field Theory ★ Proceedings of the 11th Russian Gravitational Conference and the International Workshop "Gravity, Strings and Quantum Field Theory".
  Physics ★ {Classical, stochastic and quantum gravity, string and brane cosmology}.
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83B05 Observational and experimental questions

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83Cxx General relativity

83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)

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da Rocha-Neto, José F. *see* **Pimentel, B. M. et al., 2004c:83013**
Rodewis, Thomas *see* **Rein, Gerhard, 2004g:83011**
Rodnianski, Igor *see* **Klainerman, Sergiu, 2004c:83011** *and* **Lindblad, Hans, 2004h:83008**
Salgado, Marcelo *see* **Alcubierre, Miguel et al., 2004h:83006** *and* **2004j:83006**
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83C10 Equations of motion

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Whiting, Bernard F. *see* **Detweiler, Steven et al.**, **2004i:83019**
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Zhur, T. A. *see* **Ryabushko, A. P. et al.**
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Maluf, José Wadih *see* **Sousa, Adellane Araujo**
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Ruffini, Remo *see* **Aprea, G. et al.**, **2004m:83068**
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Tucker, Robin W. *see* **Cebeci, H. et al.**
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83C15 Exact solutions

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Chauvet, Pablo *see* **Meléndez, Leandro**
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Clarkson, Chris A. *see* **Chimento, Luis P. et al., 2004c:83021a** *and* **Ibáñez, Jesús[1] et al., 2004c:83021b**
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Gavrilov, V. R. *see* **Dehnen, Heinz et al., 2004i:83022**
Ghiya, Kavita *see* **Bali, Raj et al.**
Glass, E. N. *see* **Krisch, J. P., 2004e:83012**
Goebel, Charles *see* **Romano, Antonio Enea, 2004j:83026**
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Gundlach, Carsten *see* **Carr, Bernard, 2004a:83012**
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Hayward, Sean A. Wormholes supported by pure exotic radiation. (English summary) **2004d:83011**
He, Yanjing *see* **Coley, Alan A., 2004c:83022**
Herlt, Eduard *see* **Stephani, Hans et al., 2004h:83017**
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Hervik, Sigbjorn Vacuum plane waves in $4 + 1$ D and exact solutions to Einstein's equations in $3 + 1$ D. (English summary) **2004h:83015**
Hikida, Wataru *see* **Kodama, Hideo, 2004i:83024**
Hoenselaers, Cornelius *see* **Stephani, Hans et al., 2004h:83017**
Hogan, Peter *see* **Barrabès, C., 2004f:83008**
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Hu, Yonghong *see* **Chen, Yi Han et al., 2004i:83021**
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Jakubi, Alejandro S. *see* **Chimento, Luis P. et al., 2004c:83021a** *and* **Ibáñez, Jesús[1] et al., 2004c:83021b**
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Kar, Sayan *see* **Dadhich, Naresh et al., 2004c:83023**
Karade, T. M. *see* **Virulkar, H. R. et al.**
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Kleczewska, Halina *see* **Jakubowicz, Antoni, 2004e:83010**
Klein, David Michael *see* **Collas, Peter**
Kleshchevnik, Zh. E. Einstein's gravitational equations in the Friedmann space. (Russian. Russian summary) **2004c:83028**
Kodama, Hideo (*with* Hikida, Wataru) Global structure of the Zipoy-Voorhees-Weyl spacetime and the $\delta = 2$ Tomimatsu-Sato spacetime. (English summary) **2004i:83024**
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Kramer, Dietrich *see* **Stephani, Hans et al., 2004h:83017**
Krisch, J. P. Cosmic string in the van Stockum cylinder. (English summary) **2004a:83013**
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Lake, Kayll Invariants of the Kerr vacuum. (English summary) **2004i:83025**
— Non conducting spherically symmetric fluids. (English summary)
— Differential invariants of the Kerr vacuum. (English summary) **2004k:83022**
Lara, Luis *see* **Castagnino, Mario et al., 2004b:83011**
Lavrelashvili, G. V. *see* **Breitenlohner, Peter et al., 2004m:83020**
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(Liu, Hongya) *see* **Govinder, K. S., 2004h:83014**
Liu, Xin[6] *see* **Chen, Yi Han et al., 2004i:83021**
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(Loinger, A.) *see* **Schwarzschild, K., 2004b:83014a**
Lun, A. W. C. *see* **Fletcher, S. J., 2004i:83023**
Maartens, Roy *see* **Barrow, John D. et al., 2004f:83009**
MacCallum, Malcolm *see* **Stephani, Hans et al., 2004h:83017**
Maeda, Hideki *see* **Harada, Tomohiro, 2004k:83021**
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Maison, Dieter *see* **Breitenlohner, Peter et al., 2004m:83020**
Mak, Man-Kong (*with* Harko, T.) Anisotropic stars in general relativity. (English summary) **2004i:83026**
Malec, Edward *see* **Karkowski, Janusz et al., 2004g:83022**
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Manko, Vladimir S. Comment on: "Aspects of solution-generating techniques for space-times with two commuting Killing vectors" [Gen. Relativity Gravitation **31** (1999), no. 12, 1941–1984; MR 2000j:83022] by P. Kordas. **2004d:83012**
Marcilhacy, G. *see* **Gariel, J. et al., 2004c:83024**
Martins, M. A. P. *see* **Som, M. M.**
Meléndez, Leandro (*with* Chauvet, Pablo) A solution of Einstein's equations for the Mixmaster universe in complex general relativity. (English summary)
Mel′nikov, V. N. *see* **Dehnen, Heinz et al., 2004i:83022**
Messenger, P. H. *see* **Wiltshire, R. J., 2004k:83025**
Mishra, Bivudutta *see* **Mohanty, Ganeshwar**
Mohanty, Ganeshwar (*with* Mishra, Bivudutta) LRS Bianchi type-I cosmological models with perfect fluid. (English summary)
Moubarak, M. R. A. *see* **Abd-Eltwab, Y. A. et al., 2004m:83019**
Mukherjee, Sailajananda *see* **Dadhich, Naresh et al., 2004c:83023**
Nahatkar, Smita *see* **Virulkar, H. R. et al.**
Notte Cuello, E. A. *see* **Gomes, Denilson et al.**
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Parikh, Maulik K. New coordinates for de Sitter space and de Sitter radiation. (English summary) **2004b:83013**
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Patel, L. K. (*with* Patel, H. M.) Interior solutions for a relativistic star. (English summary) **2004d:83013**
Pavón, Diego *see* **Chimento, Luis P. et al., 2004c:83021a** *and* **Ibáñez, Jesús[1] et al., 2004c:83021b**
Pereira, J. G. *see* **Aldrovandi, R. et al., 2004d:83009**
Piedipalumbo, E. *see* **Sanyal, A. K. et al., 2004h:83016**
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Qadir, Asghar (*with* Siddiqui, Azad A.) Use of Carter's coordinates for the extreme Reissner-Nordstrom spacetime to construct free-fall geodesics and a flat foliation. (English summary) **2004c:83029**
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Reuillon, Sébastien *see* **Forgács, Péter, 2004j:83021**
Romano, Antonio Enea (*with* Goebel, Charles) Gödel-type space-time metrics. (English summary) **2004j:83026**
Romero, Gustavo E. *see* **Eiroa, Ernesto F.**
Roszkowski, Krzysztof *see* **Karkowski, Janusz et al., 2004g:83022**
Roy, S. R. *see* **Singh, Jodh Pal**
Rubano, Claudio *see* **Sanyal, A. K. et al., 2004h:83016**
Sáez, Juan Antonio *see* **Ferrando, Joan Josep, 2004f:83011**
Sakalli, Izzet *see* **Gurtug, Ozay, 2004j:83022**
Salgado, Marcelo A simple theorem to generate exact black-hole solutions. (English summary) **2004j:83027**
Santos, N. O. *see* **Gariel, J. et al., 2004c:83024** *and* **Herrera, L. et al.**
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Savonije, Ivo *see* **Parikh, Maulik K. et al., 2004j:83025**
Schmidt, Hans-Jürgen *see* **Canfora, Fabrizio, 2004j:83020**
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Shamardan, A. B. *see* **Abd-Eltwab, Y. A. et al., 2004m:83019**
Shao, Chang Gui *see* **Chen, Yi Han et al., 2004i:83021**
Sharif, Mohammad *see* **Camci, Uğur, 2004a:83011**
Shikin, G. N. *see* **Bronnikov, Kirill A. et al., 2004c:83020**
Sibileva, E. N. *see* **Bronnikov, Kirill A. et al., 2004c:83020**
Siddiqui, Azad A. *see* **Qadir, Asghar, 2004c:83029**
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Singh, K. N. *see* **Bali, Raj et al.**
Skea, J. E. F. *see* **Herrera, L. et al.**
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Spradlin, Marcus (*with* Strominger, Andrew; Volovich, Anastasia) de Sitter space. (English summary) **2004k:83023**
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Strominger, Andrew *see* **Spradlin, Marcus et al., 2004k:83023**
Świerczyński, Zdobysław *see* **Karkowski, Janusz et al., 2004g:83022**
Szőcs, H. L. A determination of any physical characteristics of magnetic monopole in basis of metrics of curved space-time. (English summary) (*see* **2004g:83002**)
Teo, Edward Black diholes in five dimensions. (English summary) **2004m:83022**
— *see also* **Hong, Kenneth, 2004c:83026**
Tiwari, Rishi Kumar *see* **Singh, Jodh Pal et al.**
Tsagas, Christos G. *see* **Barrow, John D. et al., 2004f:83009**
Tsamis, N. C. (*with* Woodard, Richard P.) Plane waves in a general Robertson-Walker background. (English summary) **2004k:83024**
Tsamparlis, Michael *see* **Apostolopoulos, Pantelis S., 2004k:83018**
Upadhyaya, R. D. *see* **Bali, Raj**
Van den Bergh, Norbert Tidal effects cannot be absent in a vacuum. (English summary) **2004c:83030**
Verlinde, Erik *see* **Parikh, Maulik K. et al., 2004j:83025**
Virulkar, H. R. (*with* Nahatkar, Smita; Karade, T. M.) On static spherically symmetric charged perfect fluid. (English summary)
Visser, Matt *see* **Dadhich, Naresh et al., 2004c:83023**
Volovich, Anastasia *see* **Spradlin, Marcus et al., 2004k:83023**
Weaver, Marsha *see* **Garfinkle, David**
Williams, Jeffrey George *see* **Harriott, Tina A., 2004c:83025**
Wiltshire, R. J. (*with* Messenger, P. H.) Slowly rotating, compact fluid sources embedded in Kerr empty space-time. (English summary) **2004k:83025**
Woodard, Richard P. *see* **Tsamis, N. C., 2004k:83024**
Yadav, Anil Kumar *see* **Pradhan, Anirudh et al.**
Yadav, Lallan *see* **Pradhan, Anirudh et al.**
Zecca, Antonio The scalar wave equation in the general Schwarzschild metric. (English summary) **2004k:83026**
(Zhang, Qiuyang) *see* **Govinder, K. S., 2004h:83014**
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Žofka, M. Comments on photonic shells. (English summary) **2004j:83028**

Items with secondary classifications in 83C15

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Apostolopoulos, Pantelis S. (*with* Tsamparlis, Michael) Self-similar Bianchi type VIII and IX models. (English summary) **2004k:83027**
Bali, Raj (*with* Singh, K. N.; Ghiya, Kavita) Bianchi type I inflationary cosmological model in general relativity. (English summary) **2004e:83120**
Baysal, Hüsnü (*with* Yılmaz, İhsan) Spacelike Ricci inheritance vectors in a model of string cloud and string fluid stress tensor. (English summary) **2004c:83051**
Bertrand, Bruno (*with* Brihaye, Yves; Hartmann, Betti) de Sitter/anti-de Sitter global monopoles. (English summary) **2004j:83147**
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Böhmer, Christian G. The Einstein static universe with torsion and the sign problem of the cosmological constant. (English summary) **2004k:83097**
Bokhari, Ashfaque H. On essential singularities in a cosmological model with heat flow. (English summary)
Bonnor, W. B. Comment on: "A remark on the mass-angular-momentum relation in the double-Kerr solution" [Classical Quantum Gravity **19** (2002), no. 11, 3077–3081; MR 2003d:83033] by V. S. Manko and E. Ruiz. (English summary) **2004d:83021**
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Bousso, Raphael Adventures in de Sitter space.
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Brenig, Léon *see* **Figueiredo, Annibal et al., 2004a:83089**
Brihaye, Yves *see* **Bertrand, Bruno et al., 2004j:83147**
Caldarelli, Marco M. (*with* Klemm, Dietmar) Supersymmetric Gödel-type universe in four dimensions. (English summary) **2004i:83136**
Carot, J. *see* **Machado Ramos, M. P. et al., 2004h:83019**
Castagnino, Mario (*with* Chavarriga, Javier; Lara, Luis) An exact solution for the fluctuations of an FRW cosmology with n scalar fields, for an arbitrary potential. (English summary) **2004i:83151**
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— *see also* **Brandt, C. F. C. et al., 2004g:83042**
Chavarriga, Javier *see* **Castagnino, Mario et al., 2004i:83151**
Chimento, Luis P. *see* **Aguirregabiria, Juan M. et al., 2004f:83097**
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Cotăescu, Ion I. (*with* Vişinescu, Mihai) Dirac operators on Taub-NUT space: relationship and discrete transformations. (English summary) **2004a:83042**
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Deser, Stanley (*with* Tekin, Bayram) Shortcuts to high symmetry solutions in gravitational theories. (English summary) **2004i:83029**
Dev, Krsna (*with* Gleiser, Marcelo) Anisotropic stars. II. Stability. (English summary) **2004f:83033**
Elsgolts, S. L. *see* **Gutsunaev, Ts. I. et al., 2004e:83013**
Fernando, Sharmanthie (*with* Krug, Don) Charged black hole solutions in Einstein-Born-Infeld gravity with a cosmological constant. (English summary) **2004h:83021**
Figueiredo, Annibal (*with* Rocha Filho, Tarcísio M.; Gunzig, Edgard; Brenig, Léon; Saa, Alberto) Superinflation and quintessence in the presence of an extra field. (English summary) **2004a:83089**
Flores, José Luis (*with* Sánchez, Miguel) A topological method for geodesic connectedness of space-times: outer Kerr space-time. (English summary) **2004d:83007**
Gemelli, Gianluca *see* **Bini, Donato et al., (2004j:83001)**
Ghiya, Kavita *see* **Bali, Raj et al., 2004e:83120**
Ghosh, Tanwi (*with* Mitra, Parthasarathi) Asymptotically non-flat rotating dilaton black holes. (English summary) **2004d:83037**
Glanc, B. (*with* Jakubowicz, Antoni) An application of the special Reissner-Nordström space-time to description of the universe in the neighbourhood of the Planck era. (English summary)
Gleiser, Marcelo *see* **Dev, Krsna, 2004f:83033**
Gui, Yuanxing *see* **Tian, Jianxiang et al., 2004f:83030**
Gunzig, Edgard *see* **Figueiredo, Annibal et al., 2004a:83089**
Guo, Guanghai *see* **Tian, Jianxiang et al., 2004f:83030**
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Hassan, N. Sh. *see* **Gutsunaev, Ts. I. et al., 2004c:83013**
Hoenselaers, Cornelius New solutions of the Ernst equation in the Tomimatsu-Sato class. (English summary) **2004i:83031**
Hong, Soon-Tae *see* **Choi, Jaedong, 2004k:53103**
Hosotani, Yutaka Weyl invariant spacetime. (English summary) **2004c:83125**
Iguchi, Hideo *see* **Maeda, Hideki et al., 2004k:83032**
Jakubi, Alejandro S. *see* **Aguirregabiria, Juan M. et al., 2004f:83097**
Jakubowicz, Antoni *see* **Glanc, B.**
Kamenshchik, A. Yu. *see* **Khalatnikov, Isaak M. et al., 2004f:83015**
Kerner, Richard *see* **Colistete, R., Jr. et al., 2004a:83008**
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Künzle, H. P. *see* **Oliynyk, Todd A., 2004k:53122**
Lämmerzahl, Claus *see* **Macías, Alfredo et al., 2004c:83085**
Lara, Luis *see* **Castagnino, Mario et al., 2004i:83151**
Lazkoz Saez, R. *see* **Aguirregabiria, Juan M. et al., 2004f:83097**
Leygnac, Cédric *see* **Colistete, R., Jr. et al., 2004a:83008**
Lu, Yan *see* **Tian, Jianxiang et al., 2004f:83030**
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(Manko, Vladimir S.) *see* **Bonnor, W. B., 2004d:83021**
Martellini, Maurizio *see* **Khalatnikov, Isaak M. et al., 2004f:83015**
Martínez Alonso, Luis *see* **Mañas, Manuel**
Miritzis, John Scalar-field cosmologies with an arbitrary potential. (English summary) **2004f:83106**
Mitra, Parthasarathi *see* **Ghosh, Tanwi, 2004d:83037**
Nayak, K. R. *see* **Ramachandra, B. S. et al., 2004i:83076**
Nicolas, Jean-Philippe *see* **Häfner, Dietrich, 2004m:83038**
Nowak, Sebastian[2] *see* **Kowalski-Glikman, Jerzy, 2004k:83006**
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Ortaggio, M. *see* **Podolský, Jiří, 2004a:83017**
Pfister, Herbert Explicit solutions to the time-independent perturbation equations of the Reissner-Nordström geometry. (English summary) **2004h:83022**
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Rocha Filho, Tarcísio M. *see* **Figueiredo, Annibal et al., 2004a:83089**
Roy, S. R. *see* **Singh, Jodh Pal**
Ruffini, Remo *see* **Bini, Donato et al., (2004j:83001)**
(Ruiz, Eduardo) *see* **Bonnor, W. B., 2004d:83021**
Rybníčková, Jana Energy of some Gödel type models. (English summary) **2004b:83031**
Saa, Alberto *see* **Figueiredo, Annibal et al., 2004a:83089**
Sakalli, Izzet *see* **Gurtug, Ozay et al., 2004i:83041**
Sánchez, Miguel *see* **Flores, José Luis, 2004d:83007**
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Singh, K. N. *see* **Bali, Raj et al., 2004e:83120**
Singh, Triloki On exact static spherically symmetric solutions in general relativity, Einstein-Cartan theory and higher-dimensional theories. (English summary) **2004b:83018**
Starobinskiĭ, A. A. *see* **Khalatnikov, Isaak M. et al., 2004f:83015**
Tekin, Bayram Yang-Mills solutions on Euclidean Schwarzschild space. (English summary) **2004b:81133**
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Tintareanu-Mircea, Ovidiu *see* **Vacaru, Sergiu I., 2004c:83111**
Tsamparlis, Michael *see* **Apostolopoulos, Pantelis S., 2004k:83027**
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Vaz, E. G. L. R. *see* **Machado Ramos, M. P. et al., 2004h:83019**
Villas Da Rocha, Jaime F. *see* **Chan, Roberto et al., 2004a:83046** *and* **Brandt, C. F. C. et al., 2004g:83042**
Vishveshwara, C. V. *see* **Ramachandra, B. S. et al., 2004i:83076**
Vişinescu, Mihai *see* **Cotăescu, Ion I., 2004a:83042**
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83C20 Classes of solutions; algebraically special solutions, metrics with symmetries

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Elsgolts, S. L. *see* **Gutsunaev, Ts. I. et al., 2004e:83013**
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Jezierski, Jacek *see* **Pawlowski, Tomasz et al., 2004m:83026**
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Lake, Kayll All static spherically symmetric perfect-fluid solutions of Einstein's equations. (English summary) **2004i:83032**
Lewandowski, Jerzy *see* **Pawlowski, Tomasz et al., 2004m:83026**
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Maeda, Hideki (*with* Harada, Tomohiro; Iguchi, Hideo; Okuyama, Naoya) A classification of spherically symmetric kinematic self-similar perfect-fluid solutions. II. **2004k:83032**
Martellini, Maurizio *see* **Khalatnikov, Isaak M. et al., 2004f:83015**
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Nouri-Zonoz, Mohammad (*with* Tavanfar, Ali Reza) Gauged motion in general relativity and in Kaluza-Klein theories. (English summary) **2004c:83032**
Obukhov, V. V. (*with* Osetrin, K. E.; Filippov, A. E.) Classification of homogeneous Stäckel spacetimes. (English and Russian summaries) **2004m:83025**
Okumura, Shoji The indefinite anti-self-dual metrics and the Painlevé equations. (English summary) **2004i:83033**
Okuyama, Naoya *see* **Maeda, Hideki et al., 2004k:83032**
Ortaggio, M. *see* **Podolský, Jiří, 2004a:83017**
Osetrin, K. E. *see* **Obukhov, V. V. et al., 2004m:83025**
Ovando Zúñiga, Gerardo *see* **López-Bonilla, J. L. et al.**
Papazoglou, Antonios *see* **Damour, Thibault et al., 2004h:83018**
Pawlowski, Tomasz (*with* Lewandowski, Jerzy; Jezierski, Jacek) Spacetimes foliated by Killing horizons. (English summary) **2004m:83026**
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Rangamani, Mukund *see* **Hubeny, Veronika E., 2004a:83016**
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Rogatko, Marek Uniqueness theorem of static degenerate and nondegenerate charged black holes in higher dimensions. (English summary) **2004g:83024**
Roy, S. R. *see* **Singh, Jodh Pal**
Sáez, Juan Antonio *see* **Ferrando, Joan Josep, 2004k:83029**
Saifullah, Khalid *see* **Qadir, Asghar et al., 2004h:83020**
Schücking, Engelbert (*with* Surowitz, E.; Zhao, Jie) A diagram for Bianchi A-types. (English summary) **2004i:83035**
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SenGupta, Soumitra *see* **Kar, Sayan et al., 2004b:83017**
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— *see also* **Apostolopoulos, Pantelis S., 2004i:83027**
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Singh, Triloki On exact static spherically symmetric solutions in general relativity, Einstein-Cartan theory and higher-dimensional theories. (English summary) **2004b:83018**
Starobinskiĭ, A. A. *see* **Khalatnikov, Isaak M. et al., 2004f:83015**
Sur, Saurabh *see* **Kar, Sayan et al., 2004b:83017**
Surowitz, E. *see* **Schücking, Engelbert et al., 2004i:83035**
Surya, S. *see* **Galloway, Gregory J. et al., 2004i:83030**
Tanimoto, Masayuki (*with* Moncrief, Vincent; Yasuno, Katsuhito) Perturbations of spatially closed Bianchi III spacetimes. (English summary) **2004e:83015**
Tavanfar, Ali Reza *see* **Nouri-Zonoz, Mohammad, 2004c:83032**
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Tsamparlis, Michael *see* **Apostolopoulos, Pantelis S., 2004i:83027** *and* **2004k:83027**
Vaz, E. G. L. R. *see* **Machado Ramos, M. P. et al., 2004h:83019**
Vera, Raül Influence of general convective motions on the exterior of isolated rotating bodies in equilibrium. (English summary) **2004g:83025**
Vollick, Dan N. Anisotropic Born-Infeld cosmologies. (English summary) **2004f:83016**
Vu, Khai *see* **Zakhary, E. et al., 2004e:83016**
Wahlquist, Hugo D. *see* **Krasiński, A. et al., 2004e:83014**
Wang, Anzhong Critical collapse of a cylindrically symmetric scalar field in four-dimensional Einstein's theory of gravity. (English summary) **2004k:83033**
Weaver, Marsha On the area of the symmetry orbits in T^2 symmetric spacetimes with Vlasov matter. (English summary) **2004j:83033**
Wiltshire, R. J. Slowly, rotating non-stationary, fluid solutions of Einstein's equations and their match to Kerr empty space-time. (English summary) **2004c:83033**
Woolgar, E. *see* **Galloway, Gregory J. et al., 2004i:83030**
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Zhao, Jie *see* **Schücking, Engelbert et al., 2004i:83035**
Ziad, M. *see* **Qadir, Asghar et al., 2004h:83020**
Zsigrai, József Ellipsoidal shapes in general relativity: general definitions and an application. (English summary) **2004i:83038**

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Choquet-Bruhat, Yvonne Future complete S^1 symmetric Einsteinian spacetimes, the unpolarized case. (English and French summaries) **2004i:53104**
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Coley, Alan A. (*with* He, Yanjing) Self-similar static spherically symmetric scalar field models. (English summary) **2004c:83022**
Czapor, S. R. *see* **Chu, Kenneth C.-K. et al., 2004h:83059**
De Smet, Pieter-Jan Five-dimensional metrics of Petrov type 22. (English summary) **2004i:83104**
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83C22 Einstein-Maxwell equations

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83C25 Approximation procedures, weak fields

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83C27 Lattice gravity, Regge calculus and other discrete methods

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Loll, R. *see* **Dittrich, B., 2004f:83019**
Louapre, David *see* **Freidel, Laurent, 2004b:83024** *and* **2004e:83018**
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83C30 Asymptotic procedures (radiation, news functions, $\mathscr{H}$-spaces, etc.)

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83C35 Gravitational waves

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83C40 Gravitational energy and conservation laws; groups of motions

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83C45 Quantization of the gravitational field

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Jaramillo, J. L. *see* **Aldaya, V., 2004j:83044**

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Krauss, Frank *see* **Gleisberg, Tanju et al.**

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Matchev, Konstantin T. *see* **Gleisberg, Tanju et al.**

McDonald, Patrick *see* **Ash, Avner, 2004c:83040**

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Misra, Pradip *see* **Biswas, Satyabrata et al., 2004c:83042**
Monerat, G. A. *see* **Lemos, N. A. et al.**
Mongan, T. R. Hierarchy and wave functions in a simple quantum cosmology. (English summary) **2004f:83025**
Montani, Giovanni *see* **Imponente, Giovanni, 2004b:83040** *and* **2004f:83023**
Morales Técotl, Hugo A. *see* **Alfaro, Jorge et al., 2004a:83020** *and* **2004j:83045**
Mostafazadeh, Ali Quantum mechanics of Klein-Gordon-type fields and quantum cosmology. (English summary) **2004k:83049**
Nesterov, D. V. *see* **Barvinskiĭ, A. O., 2004f:83022**
Ng, Y. Jack Spacetime foam. (English summary) **2004h:83035**
Niedermaier, Max Renormalization and asymptotic safety in truncated quantum Einstein gravity. (English summary) **2004j:83050**
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Noda, Hujio *see* **Shao, Liang^2 et al., 2004b:83044**
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Okołów, Andrzej (*with* Lewandowski, Jerzy) Diffeomorphism covariant representations of the holonomy-flux $*$-algebra. (English summary) **2004k:83050**
de Oliveira, H. P. *see* **Lemos, N. A. et al.**
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Paban, Sonia *see* **Banks, Tom et al., 2004d:83023**
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Patiño, Leonardo (*with* Quevedo, Hernando) Bosonic and fermionic behavior in gravitational configurations. (English summary) **2004e:83021**
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Pinto-Neto, Nelson (*with* Santini, E. Sergio) The consistency of causal quantum geometrodynamics and quantum field theory. (English summary) **2004b:83042**
Ponce de Leon, J. *see* **Seahra, Sanjeev S. et al., 2004k:83051**
Pouliot, Philippe Finite number of states, de Sitter space and quantum groups at roots of unity. (English summary) **2004j:83051**
Pullin, Jorge *see* **Gambini, Rodolfo, 2004k:83044**
Quevedo, Hernando *see* **Patiño, Leonardo, 2004e:83021** *and* **Corichi, Alejandro et al., 2004i:83053**
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Raptis, Ioannis *see* **Mallios, Anastasios, 2004k:83047**
Ratcliffe, J. G. *see* **Anderson, Michael T. et al., 2004i:83050**
Reyes, M. *see* **Alfaro, Jorge et al., 2004j:83045**
Reyes, Marco A. *see* **Socorro, J. et al., 2004h:83037**
Roche, Ph. *see* **Noui, K., 2004f:83026**
Rovelli, Carlo Quantum general relativity. **2004b:83043**
— (*with* Speziale, Simone) Reconcile Planck-scale discreteness and the Lorentz-Fitzgerald contraction. (English summary) **2004f:83027**
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Ruan, Tu-Nan *see* **Wu, Ning et al.**
Santini, E. Sergio *see* **Pinto-Neto, Nelson, 2004b:83042**
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Schälicke, Andreas *see* **Gleisberg, Tanju et al.**
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Sepangi, Hamid Reza *see* **Jalalzadeh, Shahram et al., 2004h:83034** *and* **Seahra, Sanjeev S. et al., 2004k:83051**
Shaido, Yulia A. *see* **Quiroga Hurtado, John, 2004c:83047**
Shao, Chang Gui *see* **Shao, Liang^2 et al., 2004b:83044**; **2004f:83028** *and* **Shao, Dan et al.**
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Shiraishi, Kiyoshi *see* **Kan, Nahomi, 2004i:83055**
Simeone, Claudio Path integral for minisuperspaces and its relation with non-equivalent canonical quantizations. (English summary) **2004c:83048**
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Singleton, Douglas Alexander *see* **Dzhunushaliev, Vladimir, 2004h:83033**
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Sorkin, Rafael D. *see* **Brightwell, Graham R. et al., 2004g:83034**
Speziale, Simone *see* **Rovelli, Carlo, 2004f:83027**
Sun, N. J. *see* **Lu, Hui Qing et al., 2004g:83036**
Surya, S. *see* **Anderson, Michael T. et al., 2004i:83050**
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Turner, Nicolaus W. P. *see* **Dunbar, David C., 2004b:83036**
Tze, Chia-Hsiung *see* **Minic, Djordje, 2004k:83048**
Urrutia, Luis F. *see* **Alfaro, Jorge et al., 2004a:83020** *and* **2004j:83045**
Vandersloot, Kevin *see* **Bojowald, Martin, 2004i:83051**
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Willis, Joshua L. *see* **Ashtekar, Abhay et al., 2004c:83041**
Winitzki, Serge *see* **Hong, Jooyoo et al., 2004j:83048** *and* **2004j:83049**
Winkler, Oliver *see* **Husain, Viqar, 2004k:83045**
Witten, Edward Quantum gravity in de Sitter space. (English summary) **2004h:83038**
Witten, Louis *see* **Vaz, Cenalo et al., 2004b:83046**
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Wu, Zhong Chao Dimension of the universe and representation of the wave function. (English summary)
Yurtsever, Ulvi Holographic entropy bound and local quantum field theory. (English summary) **2004g:83037**
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Zhang, Da-Hua *see* **Wu, Ning et al.**
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Bojowald, Martin Initial conditions for a universe. (English summary) **2004i:83148**
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Chu, Chong-Sun *see* **Chang, Darwin et al., 2004m:83050**
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Dragović, Branko G. *see* **Djordjević, Goran S. et al., 2004c:83155**
Duplantier, Bertrand Higher conformal multifractality. (English summary) **2004b:82020**

Etesi, Gábor Classification of 't Hooft instantons over multi-centered gravitational instantons. (English summary) **2004c:53126**
Fleischhack, Christian Regular connections among generalized connections. (English summary) **2004f:58011**
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Georgi, Howard *see* **Arkani-Hamed, Nima et al., 2004d:81159**
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Giovannini, Massimo *see* **Bozza, V. et al., 2004f:83099**
Gour, Gilad (*with* Medved, Allan Joseph Michael) Thermal fluctuations and black-hole entropy. (English summary) **2004e:83032**
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Helfer, Adam D. Do black holes radiate? (English summary) **2004m:83053**
Hertog, Thomas *see* **Hawking, Stephen, 2004a:83090**
Howls, C. J. *see* **Andersson, Nils, 2004m:83045**
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Kamenshchik, A. Yu. *see* **Barvinskiĭ, A. O. et al., 2004i:83098**
Khatsymovsky, V. M. Area expectation values in quantum area Regge calculus. (English summary) **2004b:83025**
Kiefer, Claus *see* **Barvinskiĭ, A. O. et al., 2004i:83098**
Kostov, Ivan K. Boundary correlators in 2D quantum gravity: Liouville versus discrete approach. (English summary) **2004d:83052**
Krasnov, Kirill $\Lambda < 0$ quantum gravity in $2+1$ dimensions. I. Quantum states and stringy S-matrix. (English summary) **2004j:83082**
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Muller, N. M. *see* **Bais, F. Alexander et al., 2004c:83077**
Nešić, Ljubiša *see* **Djordjević, Goran S. et al., 2004c:83155**
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Polychronakos, Alexios P. *see* **Alekseev, Anton Yu. et al., 2004k:83057**
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Rathke, Andreas *see* **Barvinskiĭ, A. O. et al., 2004i:83098**
Raws, Wyeth *see* **Stuckey, W. M., 2004c:83081**
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Sasakura, Naoki Non-unitary evolutions of noncommutative worlds with symmetry. (English summary) **2004m:83059**
Schleich, Kristin *see* **Petryk, Roman, 2004h:83023**
Schroers, Bernd J. *see* **Bais, F. Alexander et al., 2004c:83077**
Schwartz, Matthew D. *see* **Arkani-Hamed, Nima et al., 2004d:81159**
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Skenderis, Kostas Lecture notes on holographic renormalization. (English summary) **2004b:81118**
Smedbäck, Mikael *see* **Alekseev, Anton Yu. et al., 2004k:83057**
Smolin, Lee The self-organization of space and time. (English summary) **2004g:83151**
Soo, Chopin *see* **Chang, Lay Nam, 2004d:81117**
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Vaidya, Sachindeo *see* **Gegenberg, Jack et al., 2004b:83129**
Vasilevich, D. V. *see* **Grumiller, Daniel et al., 2004g:83071**
Vázquez-Poritz, J. F. *see* **Gegenberg, Jack et al., 2004b:83129**
Veneziano, Gabriele *see* **Bozza, V. et al., 2004f:83099**
Vergara, J. David *see* **Romero, Juan M. et al., 2004m:83058**
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Yokoi, Naoto *see* **Kubota, Takahiro et al., 2004k:83161**

83C47 Methods of quantum field theory [see also 81T20]

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Banks, Tom (*with* Mannelli, L.) de Sitter vacua, renormalization, and locality. (English summary) **2004g:83038**
Bezerra, Valdir B. *see* **Marques, Geusa de A., 2004i:83057**
Bezerra de Mello, Eugênio R. *see* **Spinelly, J., 2004a:83028**
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Cai, Xu *see* **Wu, Shuang-Qing, 2004e:83022**
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Donoghue, John F. *see* **Bjerrum-Bohr, N. E. J. et al., 2004k:83052**
Fagundes, Helio V. *see* **Müller, Daniel[1], 2004d:83029**
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Gour, Gilad (*with* Medved, Allan Joseph Michael) Quantum spectrum for a Kerr-Newman black hole. (English summary) **2004b:83048**
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Groves, Peter B. *see* **Carlson, Eric D. et al., 2004g:83039**
Gui, Yuanxing *see* **Tian, Jianxiang et al., 2004f:83030**
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Shankaranarayanan, S. Temperature and entropy of Schwarzschild-de Sitter space-time. (English summary) **2004f:83029**
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Wald, Robert M. *see* **Ishibashi, Akihiro, 2004m:83039**
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Zhang, Suhong *see* **Tian, Jianxiang et al., 2004f:83030**

Items with secondary classifications in 83C47

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Hu, B. L. *see* **Phillips, Nicholas G., 2004g:81168**
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Junker, Wolfgang (*with* Schrohe, Elmar) Adiabatic vacuum states on general spacetime manifolds: definition, construction, and physical properties. (English summary) **2004i:81172**
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Mathur, Samir D. A proposal to resolve the black hole information paradox. (English summary) **2004e:83039**
Matsas, George E. A. *see* **Castiñeiras, J. et al.**
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Moretti, Valter Comments on the stress-energy tensor operator in curved spacetime. (English summary) **2004g:81166**
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Peletminskiĭ, S. V. *see* **Akhiezer, A. I., 2004b:81001**
Perez Bergliaffa, Santiago Esteban *see* **Novello, M. et al., 2004e:83042**
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Rosa, Luigi *see* **Bimonte, Giuseppe et al., 2004j:81115**
Rovelli, Carlo *see* **Martinetti, Pierre, 2004k:81210**
Ruetsche, Laura *see* **Arageorgis, Aristidis et al., 2004f:81133**
Ryder, L. H. *see* **Adak, M. et al., 2004b:81125**
Salim, J. *see* **Novello, M. et al., 2004e:83042**
Schrohe, Elmar *see* **Junker, Wolfgang, 2004i:81172**
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Shapiro, Ilya L. *see* **Asorey, Manuel et al., 2004j:81161**
Shariati, A. *see* **Khorrami, Mohammad et al., 2004b:81129**
(Shukurov, A.) *see* **Akhiezer, A. I., 2004b:81001**
Singh, Tejinder P. *see* **Vaz, Cenalo et al., 2004b:83046**
Smoller, Joel *see* **Finster, Felix et al., 2004i:83069**
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Tagirov, E. A. Quantum mechanics in curved configuration space. (English summary) **2004g:81170**
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83C50 Electromagnetic fields

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Bekenstein, Jacob D. The case for discrete energy levels of a black hole. (English summary) **2004j:83057**
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Belgiorno, F. Black hole thermodynamics in Carathéodory's approach. (English summary) **2004h:83045**
Bengtsson, Ingemar *see* **Åman, Jan E. et al., 2004h:83043**
Berej, Waldemar (*with* Matyjasek, Jerzy) Quantized massive fields and semiclassical electrically charged black holes. (English summary) **2004j:83058**
Berezin, V. A. Black hole thermodynamics without a black hole? (English summary) **2004c:83053**
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— (*with* Kokkotas, Kostas D.) Asymptotic quasinormal modes of Reissner-Nordström and Kerr black holes. (English summary) **2004j:83059**
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Bielavsky, Pierre (*with* Detournay, S.; Herquet, M.; Rooman, M.; Spindel, Ph.) Global geometry of the $2+1$ rotating black hole. (English summary) **2004h:83046**
Bini, Donato (*with* Jantzen, Robert T.; Merloni, A.) Absolute and relative Frenet-Serret frames for accelerated black hole circular orbits. (English summary) **2004k:83060**
Birmingham, Danny (*with* Carlip, S.; Chen, Yujun) Quasi-normal modes and black-hole quantum mechanics in $2+1$ dimensions. (English summary) **2004m:83047**
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Biswas, Anindya (*with* Mukherji, Sudipta) On the Hawking-Page transition and the Cardy-Verlinde formula. (English summary) **2004m:83048**
Blanchet, Luc Time-symmetric initial data for binary black holes in numerical relativity. (English summary) **2004k:83061**
Bonning, Erin (*with* Marronetti, Pedro; Neilsen, David W.; Matzner, Richard A.) Physics and initial data for multiple black hole spacetimes. (English summary) **2004j:83060**
Boudoul, G. *see* **Alexeyev, S. et al., 2004d:83033**
Bousso, Raphael Adventures in de Sitter space.
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Bozza, V. (*with* Mancini, Loredana) Time delay in black hole gravitational lensing as a distance estimator. (English summary)
Brännlund, Johan Conformal isometry of the Reissner-Nordström-de Sitter black hole. (English summary)
Bray, Hubert L. Black holes and the Penrose inequality in general relativity. (English summary) **2004b:83056**
Bretón Báez, Nora Born-Infeld black hole in the isolated horizon framework. (English summary) **2004h:83048**
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Burko, Lior M. Can a black hole be used as a portal to other universes? (English summary) **2004e:83028**
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Bytsenko, A. A. (*with* Goncharov, Yu. P.) Dirac monopoles in the Ernst-Schwarzschild spacetime. (English summary) **2004g:83047**
Cai, Rong-Gen (*with* Myung, Yun Soo) Holography and entropy bounds in Gauss-Bonnet gravity. (English summary) **2004b:83058**
— A note on thermodynamics of black holes in Lovelock gravity. (English summary) **2004m:83049**
Canfora, Fabrizio (*with* Vilasi, Gaetano) Back reaction from trace anomaly in RN-blackholes evaporation. (English summary) **2004j:83061**
Cao, Zhou-Jian *see* **Zhang, Hong-Bao et al.**
Cardoso, Vitor (*with* Lemos, José P. S.) The radial infall of a highly relativistic point particle into a Kerr black hole along the symmetry axis. (English summary) **2004a:83035**
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Carlip, S. (*with* Vaidya, Sachindeo) Phase transitions and critical behaviour for charged black holes. (English summary) **2004i:83064**
— Varying constants, black holes, and quantum gravity. (English summary) **2004b:83059**
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Carr, Bernard Primordial black holes.
Cartas-Fuentevilla, R. Adjoint operators, gauge invariant perturbations, and covariant symplectic form for black holes in string theory. (English summary) **2004b:83060**
Casadio, Roberto *see* **Alberghi, G. L.**
Casini, H. A geometrical origin for the covariant entropy bound. (English summary) **2004g:83048**
Castello-Branco, Karlucio H. *see* **Abdalla, E. et al., 2004g:83044**
Castiñeiras, J. (*with* Costa e Silva, I. P.; Matsas, George E. A.) Do static sources respond to massive scalar particles from the Hawking radiation as uniformly accelerated ones do in the inertial vacuum? (English summary)
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Castro, Carlos[1] (*with* Granik, Alex) Extended scale relativity, p-loop harmonic oscillator, and logarithmic corrections to the black hole entropy. (English summary) **2004c:83055**
Cavaglià, Marco *see* **Ahn, Eun-Joo**
Caveny, Scott A. (*with* Matzner, Richard A.) Adaptive event horizon tracking and critical phenomena in binary black hole coalescence. (English summary)
Chakraborty, Narayan Chandra *see* **Rahaman, F. et al., 2004e:83043**
Chang, Darwin (*with* Chu, Chong-Sun; Lin, Feng-Li) Transplanckian entanglement entropy. (English summary) **2004m:83050**
Chen, Chi-yi *see* **Shen, You-Gen et al., 2004b:83074**
Chen, Yujun *see* **Birmingham, Danny et al., 2004m:83047**
Cho, Hing Tong Dirac quasinormal modes in Schwarzschild black hole spacetimes. (English summary)
Chruściel, Piotr T. Black holes. (English summary) **2004g:83049**
— (*with* Mazzeo, Rafe) On "many-black-hole" vacuum spacetimes. (English summary) **2004b:83061**
Chu, Chong-Sun *see* **Chang, Darwin et al., 2004m:83050**
Clarkson, Chris A. (*with* Barrett, Richard K.) Covariant perturbations of Schwarzschild black holes. (English summary) **2004i:83065**
Clément, Gérard (*with* Gal′tsov, D. V.; Leygnac, Cédric) Linear dilaton black holes. (English summary) **2004a:83036**
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Corichi, Alejandro Quasinormal modes, black hole entropy, and quantum geometry. (English summary) **2004e:83029**
Cornish, Neil J. (*with* Levin, Janna) Lyapunov timescales and black hole binaries. (English summary) **2004c:83056**
Costa e Silva, I. P. *see* **Castiñeiras, J. et al.**
Custódio, Paulo Sérgio (*with* Horvath, J. E.) Thermodynamics of black holes in a finite box. (English summary) **2004i:83066**
— (*with* Horvath, J. E.) Holographic principle bounds on primordial black-hole abundances. (English summary) **2004a:83037**
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— (*with* Horvath, J. E.) Supermassive black holes may be limited by the holographic bound. (English summary) **2004f:83036**
Cvitan, M. (*with* Pallua, S.; Prester, P.) Higher curvature Lagrangians, conformal symmetry and microscopic entropy of Killing horizons. (English summary) **2004i:83067**
Dafermos, Mihalis On "time-periodic" black-hole solutions to certain spherically symmetric Einstein-matter systems. (English summary) **2004f:83037**
Das, S. *see* **Rahaman, F. et al., 2004e:83043**
Das, Saurya (*with* Kunstatter, Gabor) Varying fine structure constant and black-hole physics. (English summary) **2004d:83035**
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Davies, Paul C. W. *see* **Davis, Tamara M. et al., 2004h:83049**
Davis, Tamara M. (*with* Davies, Paul C. W.; Lineweaver, Charles H.) Black hole versus cosmological horizon entropy. (English summary) **2004h:83049**
Décanini, Yves (*with* Folacci, Antoine; Jensen, Bruce) Complex angular momentum in black hole physics and quasinormal modes. (English summary) **2004i:83068**
Dehnen, Heinz (*with* Ivashchuk, Vladimir D.; Mel′nikov, V. N.) On black hole solutions in a model with anisotropic fluid. (English and Russian summaries)
De Lorenci, V. A. *see* **Novello, M. et al., 2004e:83042**
Deshkar, D. W. *see* **Ghosh, S. G.**
Detournay, S. *see* **Bieliavsky, Pierre et al., 2004h:83046**
Dias, Óscar J. C. (*with* Lemos, José P. S.) Pair of accelerated black holes in an anti-de Sitter background: the AdS C metric. (English summary) **2004h:83050**
Diener, Peter *see* **Jansen, Nina et al., 2004g:83054**
Domínguez, Alfredo E. *see* **Gleiser, Reinaldo J.**
Dou, Djamel (*with* Sorkin, Rafael D.) Black-hole entropy as causal links. (English summary) **2004k:83064**
Dovčiak, M. (*with* Karas, Vladimír) Magnetospheres around rotating black holes. (English summary) (*see* **2004j:83001**)
Dutta Choudhury, S. B. *see* **Rahaman, F. et al., 2004e:83043**
Elizalde, Emilio *see* **Burinskiĭ, A. Ya. et al., 2004b:83057**
Elsässer, Klaus *see* **Molnár, Pál G., 2004g:83063**
Elvang, Henriette (*with* Horowitz, Gary T.) When black holes meet Kaluza-Klein bubbles. (English summary) **2004m:83051**
Fabris, J. C. *see* **Alvarenga, F. G. et al., 2004m:83044**
Fairbairn, Malcolm (*with* Tytgat, Michel H. G.) Varying α and black hole entropy. (English summary) **2004b:83062**
— (*with* Van Elewyck, Véronique) Randall-Sundrum black holes and strange stars. (English summary)
Fatibene, L. *see* **Allemandi, G. et al., 2004i:83061**
Fernando, Sharmanthie Quasinormal modes of charged dilaton black holes in $2+1$ dimensions. (English summary) **2004j:83062**
Ferrara, Sergio (*with* Porrati, Massimo) Observations on the holographic duals of 4-d extremal black holes. (English summary) **2004c:83057**
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Firsova, N. E. *see* **Goncharov, Yu. P.**
Fiske, David *see* **Shoemaker, Deirdre et al., 2004g:83065**
Folacci, Antoine *see* **Décanini, Yves et al., 2004i:83068**
Francaviglia, Mauro *see* **Allemandi, G. et al., 2004i:83061**
Frolov, Andrei V. (*with* Frolov, Valery P.) Black holes in a compactified spacetime. (English summary) **2004h:83051**
Frolov, Valery P. (*with* Fursaev, D. V.; Zel′nikov, A. I.) CFT and black hole entropy in induced gravity. (English summary) **2004b:83063**
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Fujisaki, Haruo Microcanonical algorithm of charged rotating black holes amenable to heterotic string theory. (English summary) **2004c:83058**
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Fursaev, D. V. Black hole thermodynamics, induced gravity and gravity in brane worlds. (English summary) **2004g:83050**
— *see also* **Frolov, Valery P. et al., 2004b:83063**
Furtado, Claudio *see* **de M. Carvalho, A. M. et al., 2004g:83061**
Gal′tsov, D. V. Gravitating lumps. (English summary) **2004e:83031**
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Gao, Chang-Jun (*with* Shen, You-Gen) BB quantization of a torus-like black hole. (English summary) **2004h:83052**
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Gao, Chong-Shou *see* **Zhang, Hong-Bao et al.**
Gao, Sijie First law of black hole mechanics in Einstein-Maxwell and Einstein-Yang-Mills theories. (English summary) **2004m:83052**
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Garay, Luis J. Black holes in Bose-Einstein condensates. (English summary) **2004a:83038**
— (*with* Mena Marugán, Guillermo A.) Immirzi ambiguity, boosts and conformal frames for black holes. (English summary) **2004d:83036**
Garvey, Robert *see* **Giblin, John T., Jr. et al., 2004k:83066**
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Ghosh, Tanwi (*with* Mitra, Parthasarathi) Asymptotically non-flat rotating dilaton black holes. (English summary) **2004d:83037**
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Gibbons, Gary W. (*with* Hartnoll, Sean A.; Pope, C. N.) Bohm and Einstein-Sasaki metrics, black holes, and cosmological event horizons. (English summary) **2004i:83070**
Giblin, John T., Jr. (*with* Marolf, Donald; Garvey, Robert) Spacetime embedding diagrams for spherically symmetric black holes. (English summary) **2004k:83066**
Giddings, Steven B. Black holes at accelerators.
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Gleiser, Reinaldo J. (*with* Dominguez, Alfredo E.) Gravitational memory effect in "boosted" black hole perturbation theory. (English summary)
Gomberoff, Andrés (*with* Teitelboim, Claudio) de Sitter black holes with either of the two horizons as a boundary. (English summary) **2004g:83052**
Goncharov, Yu. P. (*with* Firsova, N. E.) Increase of the electron-positron Hawking radiation from Schwarzschild black holes by Dirac monopoles. (English summary)
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González, José Antonio *see* **Sudarsky, Daniel, 2004b:83075**
Gour, Gilad (*with* Medved, Allan Joseph Michael) The Kerr black hole as a quantum rotator. (English summary) **2004d:83038**
— (*with* Medved, Allan Joseph Michael) Thermal fluctuations and black-hole entropy. (English summary) **2004e:83032**
— Entropy bounds for charged and rotating systems. (English summary) **2004e:83033**
— Extensive entropy bounds. (English summary) **2004h:83054**
— (*with* Medved, Allan Joseph Michael) Questions of stability near black hole critical points. (English summary) **2004j:83065**
— *see also* **Bekenstein, Jacob D., 2004a:83034**
Granik, Alex *see* **Castro, Carlos[1], 2004c:83055**
Grishchuk, L. P. *see* **Babak, S. V.**
Gubser, Steven S. Anti de Sitter black holes and their uses. (English summary) **2004b:83064**
Gundlach, Carsten Critical phenomena in gravitational collapse. (English summary) **2004c:83059**
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Guo, Han-Ying *see* **Wu, Xiao-Ning et al., 2004a:83040**
Gupta, Kumar S. (*with* Sen, Siddhartha[1]) Hidden degeneracy in the brick wall model of

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Ha, Yuan K. The gravitational energy of a black hole. (English summary)
Han, Fu Long *see* **Zhang, Li Chun et al., 2004a:83041**
Han, Yiwen *see* **Liu, Wen Biao et al., 2004d:83040** *and* **Yang, Xuejun et al., 2004e:83047**
Hansen, Jakob *see* **Jansen, Nina et al., 2004g:83054**
Harmark, Troels (*with* Obers, Niels A.) Black holes and black strings on cylinders. (English summary) **2004g:83053**
de Haro, Sebastian S-matrices for Planckian scattering. (*see* **2004d:81111**)
Hartmann, Betti *see* **Brihaye, Yves**
Hartnoll, Sean A. Instability of generalised AdS black holes and thermal field theory. (English summary) **2004h:83055**
— *see also* **Gibbons, Gary W. et al., 2004i:83070**
Hayward, Sean A. (*with* Kim, Sung-Won; Lee, Hyunjoo) Dilatonic wormholes: construction, operation, maintenance, and collapse to black holes. (English summary) **2004b:83065**
— *see also* **Koyama, Hiroko et al., 2004g:83057**
He, Han *see* **Yang, Xuejun et al., 2004k:83077**
Helfer, Adam D. Do black holes radiate? (English summary) **2004m:83053**
Herdeiro, Carlos A. R. The Kerr-Newman-Gödel black hole. (English summary) **2004j:83066**
Herquet, M. *see* **Bieliavsky, Pierre et al., 2004h:83046**
Herrera-Aguilar, Alfredo The Harrison transformation and rotating interacting black holes. (English and Spanish summaries) **2004i:83071**
Hildebrandt, Sergi R. *see* **Burinskiĭ, A. Ya. et al., 2004b:83057** *and* **2004i:83063**
Hirayama, Takayuki (*with* Holdom, B.) Can black holes have Euclidean cores? (English summary)
Hod, Shahar Kerr black-hole quasinormal frequencies. (English summary) **2004f:83040**
Holdom, B. *see* **Hirayama, Takayuki**
Hong, Soon-Tae SO(3, 2)/Sp(2) symmetries in BTZ black holes. (English summary) **2004k:83068**
Horowitz, Gary T. *see* **Elvang, Henriette, 2004m:83051**
Horvath, J. E. *see* **Custódio, Paulo Sérgio, 2004a:83037**; **2004f:83036** *and* **2004i:83066**
Howls, C. J. *see* **Andersson, Nils, 2004m:83045**
Hu, B. L. *see* **Sinha, Sukanya et al., 2004c:83066**
Huang, Chao-Guang *see* **Wu, Xiao-Ning et al., 2004a:83040**
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Ivanov, M. G. Black holes with complex multi-string configurations. (English and Russian summaries) **2004h:83056**
Ivashchuk, Vladimir D. *see* **Dehnen, Heinz et al.**
Izquierdo, Germán (*with* Pavón, Diego) Mini black holes and the relic gravitational waves spectrum. (English summary)
Jacobson, Ted (*with* Parentani, Renaud) Horizon entropy. (English summary) **2004e:83035**
Jansen, Nina (*with* Diener, Peter; Hansen, Jakob; Khokhlov, Alexei; Novikov, Igor D.) Local and global properties of conformal initial data for black-hole collisions. (English summary) **2004g:83054**
Jantzen, Robert T. *see* **Bini, Donato et al., 2004k:83060**
Järv, Laur (*with* Johnson, Clifford V.) Rotating black holes, closed timelike curves, thermodynamics, and the enhançon mechanism. (English summary) **2004k:83069**
Jensen, Bruce *see* **Décanini, Yves et al., 2004i:83068**
Jhingan, Sanjay (*with* Tanaka, Takahiro) Improvement on the metric reconstruction scheme in the Regge-Wheeler-Zerilli formalism. (English summary)
Jing, Jiliang Hawking radiation of Rarita-Schwinger fields of a stationary charged black hole. (English summary) **2004g:83055**
Johnson, Clifford V. *see* **Järv, Laur, 2004k:83069**
(Joshi, S. C.) *see* **Müller-Krumbhaar, H., 2004c:83064**
Kamran, Niky *see* **Finster, Felix et al., 2004i:83069**
Kanti, Panagiota (*with* March-Russell, John) Calculable corrections to brane black hole decay. II. Greybody factors for spin 1/2 and 1. (English summary) **2004g:83056**
Karas, Vladimír *see* **Dovčiak, M., (2004j:83001)**
Kaul, Romesh K. (*with* Rama, S. Kalyana) Black hole entropy from spin one punctures. (English summary) **2004k:83070**
Kaya, Ali Open cosmic strings in black hole space-times. (English summary) **2004b:83066**
Kaynak, B. T. *see* **Özdemir, Fatma et al.**
Khanna, Gaurav *see* **López-Alemán, Ramón et al., 2004g:83060** *and* **Burko, Lior M.**
Khanna, Ramon Generation and evolution of magnetic fields in the gravitomagnetic field of a Kerr black hole. (English summary) (*see* **2004j:83001**)
Khokhlov, Alexei *see* **Jansen, Nina et al., 2004g:83054**
Khovanskaya, O. *see* **Alexeyev, S. et al., 2004d:83033**
Kim, Sung-Won *see* **Hayward, Sean A. et al., 2004b:83065** *and* **Koyama, Hiroko et al., 2004g:83057**
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Klein, Christian Exact relativistic treatment of stationary black-hole-disk systems. (English summary) **2004k:83071**
Klippert, R. *see* **Novello, M. et al., 2004e:83042**
Kokkotas, Kostas D. *see* **Berti, Emanuele et al., 2004j:83059**
Konoplya, Roman *see* **Cardoso, Vitor et al.**
Koyama, Hiroko (*with* Hayward, Sean A.; Kim, Sung-Won) Construction and enlargement of dilatonic wormholes by impulsive radiation. (English summary) **2004g:83057**
Krasnov, Kirill Black-hole thermodynamics and Riemann surfaces. (English summary) **2004g:83058**
Kudoh, Hideaki Thermodynamic properties of small localized black holes. (English summary) **2004j:83067**
Kunstatter, Gabor d-dimensional black hole entropy spectrum from quasinormal modes. (English summary) **2004c:83060**
— *see also* **Das, Saurya, 2004d:83035** *and* **Barvinskiĭ, A. O. et al., 2004e:83027**
Kunz, Jutta *see* **Kleihaus, Burkhard et al., 2004b:83067**
Kuriakose, P. I. (*with* Kuriakose, V. C.) Extremal Reissner-Nordström black hole in thermal equilibrium: the back-reaction-change of entropy. (English summary) **2004c:83061**
Kuriakose, V. C. *see* **Kuriakose, P. I., 2004c:83061**
Laguna-Castillo, Pablo *see* **Shoemaker, Deirdre et al., 2004g:83065** *and* **Tichy, Wolfgang et al.**
Laughlin, R. B. Emergent relativity. (English summary) **2004c:83062**
Lee, Hyunjoo *see* **Hayward, Sean A. et al., 2004b:83065**
Lemos, José P. S. *see* **Cardoso, Vitor et al., 2004a:83035**; **2004f:83035**; **2004k:83063** *and* **Dias, Óscar J. C., 2004h:83050**
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Leung, P. T. (*with* Maassen van den Brink, Alec; Mak, Ka-Wai; Young, Kenneth) Unconventional gravitational excitation of a Schwarzschild black hole. (English summary) **2004g:83059**
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Magli, Giulio *see* **Burinskiĭ, A. Ya. et al., 2004b:83057**
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Navarro-Lérida, Francisco *see* **Kleihaus, Burkhard et al., 2004b:83067**
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Pavón, Diego *see* **Izquierdo, Germán**
Penna-Firme, André *see* **Mosquera Cuesta, Herman J. et al., 2004e:83040**
Perez Bergliaffa, Santiago Esteban *see* **Novello, M. et al., 2004e:83042**
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Polychronakos, Alexios P. *see* **Alekseev, Anton Yu. et al., 2004k:83057**
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Prester, P. *see* **Cvitan, M. et al., 2004i:83067**
Pullin, Jorge *see* **López-Alemán, Ramón et al., 2004g:83060**
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Sazhin, M. *see* **Alexeyev, S. et al., 2004d:83033**
Schmidt-Kaler, Theodor *see* **de Vries, Andreas, 2004c:83067**
Schnetter, Erik Finding apparent horizons and other 2-surfaces of constant expansion. (English summary) **2004j:83072**
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Teitelboim, Claudio *see* **Gomberoff, Andrés, 2004g:83052**
Temple, Blake *see* **Smoller, Joel, 2004h:83058**
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Vilasi, Gaetano *see* **Canfora, Fabrizio**, **2004j:83061**
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Cacciatori, Sergio L. *see* **Astorino, Marco et al.**, **2004d:83050**
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Carlson, Eric D. (*with* Hirsch, William H.; Obermayer, Benedikt; Anderson, Paul R.; Groves, Peter B.) Stress-energy tensor for a massless spin 1/2 field in static black hole spacetimes. (English summary) **2004g:83039**
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Casadio, Roberto On brane-world black holes and short scale physics. (English summary) **2004g:83091**
— (*with* Mersini, Laura) Short distance signatures in cosmology: why not in black holes? (English summary) **2004k:83084**
Castello-Branco, Karlucio H. *see* **da Rocha-Neto, José F.**, **2004k:83041**
Cavaglià, Marco (*with* Das, Saurya; Maartens, Roy) Will we observe black holes at the LHC? (English summary)
Chakrabarti, Amitabha[1] *see* **Brihaye, Yves et al.**, **2004d:83066**
Chan, Hsungrow Embedding Misner and Brill-Lindquist initial data for black-hole collisions. (English summary) **2004a:53102**
Chan, Roberto Radiating gravitational collapse with shear revisited. (English summary) **2004e:83026**
Charmousis, Christos (*with* Gregory, Ruth) Axisymmetric metrics in arbitrary dimensions. (English summary) **2004j:83095**
Choi, Jaedong *see* **Hong, Soon-Tae et al.**, **2004j:83081**
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Cognola, Guido (*with* Elizalde, Emilio; Zerbini, Sergio) One-loop effective potential from higher-dimensional AdS black holes. (English summary) **2004m:83072**
Corichi, Alejandro *see* **Ashtekar, Abhay et al.**, **2004e:83060** *and* **2004h:83031**
Curry, Chris *see* **Fernando, Sharmanthie et al.**, **2004f:83052**
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Dreyer, Olaf (*with* Krishnan, Badri; Shoemaker, Deirdre; Schnetter, Erik) Introduction to isolated horizons in numerical relativity. (English summary) **2004a:83001**
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Elizalde, Emilio *see* **Bytsenko, A. A. et al., 2004h:58031** *and* **Cognola, Guido et al., 2004m:83072**
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Emparan, Roberto (*with* García-Bellido, Juan; Kaloper, Nemanja) Black hole astrophysics in AdS braneworlds. (English summary) **2004b:83111**
— Rotating circular strings, and infinite non-uniqueness of black rings. (English summary) **2004m:83090**
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Englert, Berthold-Georg *see* **Fulling, Stephen A. et al., 2004h:82009**
Fabbri, Alessandro *see* **Balbinot, R., 2004k:81230**
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Fernando, Sharmanthie (*with* Krug, Don) Charged black hole solutions in Einstein-Born-Infeld gravity with a cosmological constant. (English summary) **2004h:83021**
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Galloway, Gregory J. (*with* Surya, S.; Woolgar, E.) Non-existence of black holes in certain $\Lambda<0$ spacetimes. (English summary) **2004i:83030**
Gambini, Rodolfo (*with* Pullin, Jorge) Discrete quantum gravity: a mechanism for selecting the value of fundamental constants. (English summary) **2004k:83044**
García-Bellido, Juan *see* **Emparan, Roberto et al., 2004b:83111**
Ghosh, S. G. (*with* Banerjee, Asit Kumar) Non-marginally bound inhomogeneous dust collapse in higher dimensional space-time. (English summary) **2004c:83074**
Gimon, Eric G. (*with* Hashimoto, Akikazu) Black holes in Gödel universes and pp waves. (English summary) **2004g:83139**
Giveon, Amit (*with* Rabinovici, Eliezer; Sever, Amit) Beyond the singularity of the 2D charged black hole. (English summary) **2004k:83087**
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Goheer, Naureen (*with* Kleban, Matthew; Susskind, Leonard) The trouble with de Sitter space. (English summary) **2004i:83123**
Gour, Gilad (*with* Medved, Allan Joseph Michael) Quantum spectrum for a Kerr-Newman black hole. (English summary) **2004b:83048**
Govender, M. *see* **Govinder, K. S., 2004j:83079**
Govindarajan, T. R. Information from quantum blackhole physics. (English summary) **2004k:83088**
Govinder, K. S. (*with* Govender, M.) Gravitational collapse of null radiation and a string fluid. (English summary) **2004j:83079**
Gregory, Ruth *see* **Charmousis, Christos, 2004j:83095**
Groves, Peter B. *see* **Carlson, Eric D. et al., 2004g:83039**
Grumiller, Daniel (*with* Kummer, Wolfgang; Vasilevich, D. V.) Positive specific heat of the quantum corrected dilaton black hole. (English summary) **2004g:83071**
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Gurevich, Aleksandr Viktor *see* **Ilyin, A. S. et al.**
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Hartl, Michael D. Dynamics of spinning test particles in Kerr spacetime. (English summary) **2004b:83009**
Hartmann, Betti *see* **Brihaye, Yves et al., 2004d:83066**
Hashimoto, Akikazu *see* **Gimon, Eric G., 2004g:83139**
Hawley, Scott H. (*with* Matzner, Richard A.) Tips for implementing multigrid methods on domains containing holes. **2004m:83006**
Hayward, Sean A. Wormholes supported by pure exotic radiation. (English summary) **2004d:83011**
Herdeiro, Carlos A. R. Spinning deformations of the D1–D5 system and a geometric resolution of closed timelike curves. (English summary) **2004m:83092**
Herzlich, Marc Minimal surfaces, the Dirac operator and the Penrose inequality. **2004m:53062**
Herzog, Christopher P. (*with* Son, Dam Thanh) Schwinger-Keldysh propagators from AdS/CFT correspondence. (English summary) **2004c:81212**
Hirsch, William H. *see* **Carlson, Eric D. et al., 2004g:83039**
Hirschmann, Eric W. *see* **Choptuik, Matthew W. et al.**
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Hu, B. L. *see* **Phillips, Nicholas G., 2004g:81168**
Huang, Chao-Guang *see* **Guo, Han-Ying et al., 2004b:83029**
Hubeny, Veronika E. (*with* Rangamani, Mukund) Generating asymptotically plane wave spacetimes. (English summary) **2004d:83081**
— (*with* Rangamani, Mukund) Horizons and plane waves: a review. (English summary) **2004i:83127**
Husain, Viqar *see* **Das, Saurya, 2004i:83103**
Iizuka, Norihiro (*with* Kabat, Daniel; Lifschytz, Gilad; Lowe, David A.) Stretched horizons, quasiparticles, and quasinormal modes. (English summary) **2004k:83046**
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Iofa, Mikhail Z. Magnetic black holes in string theory. (English summary) **2004f:83085**
Jezierski, Jacek *see* **Pawlowski, Tomasz et al., 2004m:83026**
Jing, Jiliang (*with* Wang, Shiliang) Can Martinez's conjecture be extended to string theory? (English summary) **2004b:81167**
Joshi, Pankaj S. (*with* Dadhich, Naresh; Maartens, Roy) Why do naked singularities form in gravitational collapse? (English summary) **2004c:83075**
Kabat, Daniel (*with* Lifschytz, Gilad; Lowe, David A.) Black hole thermodynamics from calculations in strongly-coupled gauge theory. **2004c:83127**
— *see also* **Iizuka, Norihiro et al., 2004k:83046**
Kaloper, Nemanja *see* **Emparan, Roberto et al., 2004b:83111**
Kalyashin, S. V. *see* **Afantitis, Kh., 2004d:81072**
Kamran, Niky Some recent mathematical developments in general relativity. (French summary) **2004f:83017**
— *see also* **Finster, Felix et al., 2004a:83025**
Kanti, Panagiota *see* **Harris, Christopher M., 2004j:83101**
Kar, Sayan *see* **Dadhich, Naresh et al., 2004c:83023** *and* **Koley, Ratna et al., 2004h:83065**
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Kath, Ines *see* **Finster, Felix, 2004b:53051**
Kaul, Romesh K. Black hole entropy from a highly excited elementary string. (English summary)
Kazakov, Kirill A. Correspondence principle in quantum gravity. (English summary) **2004a:83023**
Kenmoku, Masakatsu (*with* Shigemoto, Kazuyasu) Conservation of energy in black holes and in cosmology. (English and Russian summaries) **2004j:83041**
Kiefer, Claus *see* **Vaz, Cenalo et al., 2004b:83046**
Kim, N. J. *see* **Myung, Yun Soo, 2004k:83054**
Kim, Won Tae (*with* Son, Edwin J.) Exactly soluble model for self-gravitating D-particles with the wormhole. (English summary) **2004i:83087**
Kleban, Matthew *see* **Goheer, Naureen et al., 2004i:83123**
Klemm, Dietmar *see* **Astorino, Marco et al., 2004d:83050**
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Koley, Ratna (*with* Pal, Supratik; Kar, Sayan) Geodesics and geodesic deviation in a two-dimensional black hole. (English summary) **2004h:83065**
Konechny, Anatoly *see* **Giveon, Amit et al., 2004k:81328**
Koppitz, Michael *see* **Alcubierre, Miguel et al., 2004m:83004**
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Krasnov, Kirill Analytic continuation for asymptotically AdS 3D gravity. (English summary) **2004b:83093**
Krause, Axel Dual brane pairs and the Bekenstein-Hawking entropy of non-SUSY spacetimes. (English summary) **2004g:83121**
Krishnan, Badri *see* **Dreyer, Olaf et al., 2004a:83001**
Krug, Don *see* **Fernando, Sharmanthie et al., 2004f:83052** *and* **2004h:83021**
Kudoh, Hideaki (*with* Tanaka, Takahiro; Nakamura, Takashi[1]) Small localized black holes in a braneworld: formulation and numerical method. (English summary)
Kummer, Wolfgang *see* **Grumiller, Daniel et al., 2004g:83071** *and* **Bergamin, Luzi et al., 2004m:83103**
Kurita, Yasunari (*with* Sakagami, Masa-aki) Quasi-normal modes of D3-brane black holes. (English summary) **2004k:83113**
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Lehner, Luis Numerical relativity: status and prospects. (English summary) **2004b:83002**
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Leiva, Carlos (*with* Plyushchaĭ, M. S.) Conformal symmetry of relativistic and nonrelativistic systems and AdS/CFT correspondence. (English summary) **2004k:83116**
Lewandowski, Jerzy *see* **Pawlowski, Tomasz et al., 2004m:83026**
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Lidsey, James E. (*with* Nojiri, Shin'ichi; Odintsov, Sergei D.; Ogushi, Sachiko) The AdS/CFT correspondence and logarithmic corrections to braneworld cosmology and the Cardy-Verlinde formula. (English summary) **2004j:83109**
Liebling, Steven L. *see* **Choptuik, Matthew W. et al.**
Lifschytz, Gilad *see* **Kabat, Daniel et al., 2004c:83127** *and* **Iizuka, Norihiro et al., 2004k:83046**
Liu, Chiu-Chu Melissa (*with* Yau, Shing Tung) Positivity of quasilocal mass. (English summary) **2004g:83031**
Lowe, David A. *see* **Kabat, Daniel et al., 2004c:83127** *and* **Iizuka, Norihiro et al., 2004k:83046**
Lozano-Tellechea, Ernesto *see* **Alonso-Alberca, Natxo et al., 2004b:83137**

Maartens, Roy *see* **Joshi, Pankaj S. et al., 2004c:83075** *and* **Cavaglià, Marco et al.**
Magli, Giulio The spectrum of endstates of spherical gravitational collapse. (English summary) **2004i:83084**
Malec, Edward *see* **Karkowski, Janusz et al., 2004g:83022**
Mandal, Gautam *see* **David, Justin R. et al., 2004c:83117**
Mansouri, R. *see* **Setare, Mohammad R.**
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Marolf, Donald (*with* Pando Zayas, Leopoldo A.) On the singularity structure and stability of plane waves. (English summary) **2004c:83130**
Martinec, Emil J. (*with* McElgin, Will) Exciting AdS orbifolds. (English summary) **2004k:81300**
Mathur, Samir D. *see* **Brower, Richard C. et al., 2004d:83067**
Matyjasek, Jerzy Quantized massive scalar fields in the spacetime of a charged dilatonic black hole. Energy conditions. (English summary) **2004m:83040**
Matzner, Richard A. *see* **Hawley, Scott H., 2004m:83006**
McElgin, Will *see* **Martinec, Emil J., 2004k:81300**
McInnes, Brett Stringy instability of topologically non-trivial AdS black holes and of de Sitter S-brane spacetimes. (English summary) **2004f:83073**
Medved, Allan Joseph Michael *see* **Gour, Gilad, 2004b:83048**
Meinel, R. *see* **Neugebauer, G., 2004k:83056**
Mel'nikov, V. N. *see* **Bronnikov, Kirill A. et al., 2004j:83094**
Mersini, Laura *see* **Casadio, Roberto, 2004k:83084**
Messaritaki, Eirini *see* **Detweiler, Steven et al., 2004i:83019**
Michelson, Jeremy Anti-de Sitter fragmentation. (English summary) (*see* **2004d:81111**)
Mishima, Takashi *see* **Nakamura, Kouji et al., 2004k:83120**
Moretti, Valter (*with* Pinamonti, Nicola) Aspects of hidden and manifest $SL(2,\mathbb{R})$ symmetry in 2D near-horizon black-hole backgrounds. (English summary) **2004d:83054**
Mukherjee, Sailajananda *see* **Dadhich, Naresh et al., 2004c:83023**
Myung, Yun Soo (*with* Kim, N. J.) Difference between anti-de Sitter and de Sitter spaces: wave equation approach. (English summary) **2004k:83054**
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Nakamura, Kouji (*with* Nakao, Ken-ichi; Mishima, Takashi) Hoop conjecture and black holes on a brane. (English summary) **2004k:83120**
Nakamura, Takashi[1] *see* **Kudoh, Hideaki et al.**
Nakao, Ken-ichi *see* **Nakamura, Kouji et al., 2004k:83120**
Nashed, G. G. L. Vacuum nonsingular black hole in tetrad theory of gravitation. (English summary) **2004c:83086**
Neilsen, David W. *see* **Calabrese, Gioel et al., 2004m:83005**
Neugebauer, G. (*with* Meinel, R.) Progress in relativistic gravitational theory using the inverse scattering method. (English summary) **2004k:83056**
Nojiri, Shin'ichi Higher-derivative gravities and negative entropy. (English and Russian summaries) **2004k:83100**
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Obermayer, Benedikt *see* **Carlson, Eric D. et al., 2004g:83039**
Odintsov, Sergei D. *see* **Nojiri, Shin'ichi, 2004g:83109** *and* **Lidsey, James E. et al., 2004j:83109**
Ogushi, Sachiko *see* **Lidsey, James E. et al., 2004j:83109**
Ohta, Nobuyoshi Introduction to branes and M-theory for relativists and cosmologists. (English summary) **2004k:81309**
Oppenheim, Jonathan Thermodynamics with long-range interactions: from Ising models to black holes. (English summary) **2004k:80002**
Ori, Amos *see* **Barack, Leor, 2004b:83008** *and* **2004c:83015**
Ortín, Tomás *see* **Alonso-Alberca, Natxo et al., 2004b:83137**
Özçelik, Hasan Tuncay *see* **Hortaçsu, M. et al., 2004f:83054**
Özdemir, N. Gravitomagnetic effects and cosmic strings. (English summary) **2004i:83163**
Pakman, Ari *see* **Giveon, Amit et al., 2004k:81328**
Pal, Supratik *see* **Koley, Ratna et al., 2004h:83065**
Pallua, S. *see* **Cvitan, M. et al., 2004k:83104**
Pando Zayas, Leopoldo A. *see* **Marolf, Donald, 2004c:83130**
Papantonopoulos, Eleftherios Black holes on the brane with induced gravity. (English summary) **2004h:83090**
Parentani, Renaud Beyond the semiclassical description of black hole evaporation. (English summary) **2004a:83027**
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Pilloff, M. D. *see* **Fulling, Stephen A. et al., 2004h:82009**
Pinamonti, Nicola *see* **Moretti, Valter, 2004d:83054**
Piran, Tsvi *see* **Sorkin, Evgeny, 2004b:83136**
Plyushchai, M. S. *see* **Leiva, Carlos, 2004k:83116**
Polchinski, Joseph M theory and black hole quantum mechanics.
Polney, Denis *see* **Alcubierre, Miguel et al., 2004m:83004**
Prester, P. *see* **Cvitan, M. et al., 2004k:83104**
Pretorius, Frans *see* **Choptuik, Matthew W. et al.**
Pullin, Jorge *see* **Gambini, Rodolfo, 2004k:83044** *and* **Calabrese, Gioel et al., 2004m:83005**
Rabinovici, Eliezer *see* **Barbón, José L. F., 2004e:83087** *and* **Giveon, Amit et al., 2004k:83087**
Rácz, István *see* **Fodor, Gyula**
Rangamani, Mukund *see* **Hubeny, Veronika E., 2004d:83081** *and* **2004i:83127**
Reula, Oscar *see* **Calabrese, Gioel et al., 2004m:83005**
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Rosu, Haret C. Quantum Hamiltonians and prime numbers. (English summary) **2004g:81076**
Roszkowski, Krzysztof *see* **Karkowski, Janusz et al., 2004g:83022**
Sakagami, Masa-aki *see* **Kurita, Yasunari, 2004b:83134** *and* **2004k:83113**
Salgado, Marcelo A simple theorem to generate exact black-hole solutions. (English summary) **2004j:83027**
Santiago-Germán, Wenceslao Surface-gravity inequalities and generic conditions for strong cosmic censorship. (English summary) **2004m:83062**
Sarbach, Olivier *see* **Calabrese, Gioel et al., 2004m:83005**
Satoh, Yuji (*with* Troost, Jan) Massless BTZ black holes in minisuperspace. (English summary) **2004a:83075**
Schnetter, Erik *see* **Dreyer, Olaf et al., 2004a:83001**
Schoen, Richard M. *see* **Bray, Hubert L., 2004j:53047**
Seidel, Edward *see* **Alcubierre, Miguel et al., 2004m:83004**
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Sever, Amit *see* **Giveon, Amit et al., 2004k:81328** *and* **2004k:83087**
Shapiro, Stuart L. *see* **Baumgarte, Thomas W., 2004c:83002**
Shigemoto, Kazuyasu *see* **Kenmoku, Masakatsu, 2004j:83041**
Shoemaker, Deirdre *see* **Dreyer, Olaf et al., 2004a:83001**
Singh, Tejinder P. *see* **Vaz, Cenalo et al., 2004b:83046**
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83C65 Methods of noncommutative geometry [see also 58B34]

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Lara, Luis *see* **Castagnino, Mario et al., 2004d:83049**
Levi, Thomas S. (*with* Ross, Simon F.) Holography beyond the horizon and cosmic censorship. (English summary) **2004m:83061**
Lombardi, Olimpia *see* **Castagnino, Mario et al., 2004d:83049**
Maartens, Roy *see* **Joshi, Pankaj S. et al., 2004c:83075**
Magli, Giulio The spectrum of endstates of spherical gravitational collapse. (English summary) **2004i:83084**
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Mersini, Laura *see* **Casadio, Roberto, 2004k:83084**
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Reid, David D. Manifold dimension of a causal set: tests in conformally flat spacetimes. (English summary) **2004f:83050**
Ross, Simon F. *see* **Levi, Thomas S., 2004m:83061**
Rudnicki, Wiesław (*with* Budzyński, Robert J.; Kondracki, Witold) Generalized strong curvature singularities and cosmic censorship. (English summary) **2004b:83086**
Saa, Alberto *see* **Abramo, L. Raul et al., 2004b:83083**
Santiago-Germán, Wenceslao Surface-gravity inequalities and generic conditions for strong cosmic censorship. (English summary) **2004m:83062**
Senovilla, José M. M. *see* **García-Parrado, Alfonso, 2004e:83051** *and* **Mars, Marc, 2004k:83086**
Tod, Kenneth Paul Isotropic cosmological singularities. (English summary) **2004m:83063**
Tumulka, Roderich *see* **Goldstein, Sheldon, 2004f:83048**
Varadarajan, Uday *see* **Boyda, Edward K. et al., 2004j:83078**
Villas Da Rocha, Jaime F. *see* **Chan, Roberto et al., 2004a:83046**
Virbhadra, K. S. (*with* Ellis, George F. R.) Gravitational lensing by naked singularities. (English summary) **2004b:83087**
Visser, Matt The quantum physics of chronology protection.
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Items with secondary classifications in 83C75

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Ashley, Michael J. S. L. (*with* Scott, Susan M.) Curvature singularities and abstract boundary singularity theorems for space-time. (English summary) **2004m:53122**
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Böhmer, Christian G. Eleven spherically symmetric constant density solutions with cosmological constant. (English summary) **2004j:83019**
Bojowald, Martin Initial conditions for a universe. (English summary) **2004i:83148**
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Brill, Dieter *see* **Charette, Virginie et al., 2004c:53106**

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Chan, Roberto Radiating gravitational collapse with shear revisited. (English summary) **2004e:83026**
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Charette, Virginie (*with* Drumm, Todd A.; Brill, Dieter) Closed time-like curves in flat Lorentz space-times. (English summary) **2004c:53106**
Damour, Thibault (*with* Henneaux, Marc; Nicolai, Hermann) Cosmological billiards. (English summary) **2004e:83124**
Das, Anadijiban *see* **DeBenedictis, A., 2004h:83068**
Da Silva, M. F. A. *see* **Brandt, C. F. C. et al., 2004g:83042**
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Diener, Peter A new general purpose event horizon finder for 3D numerical spacetimes. (English summary) **2004m:83001**
Drumm, Todd A. *see* **Charette, Virginie et al., 2004c:53106**
Easson, Damien A. Towards a stringy resolution of the cosmological singularity. (English summary)
Ellis, George F. R. (*with* Maartens, Roy) The emergent universe: inflationary cosmology with no singularity. (English summary) **2004m:83112**
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Feinstein, Alexander (*with* Jhingan, Sanjay) Ghosts in a mirror. (English summary)
Fiske, David *see* **Shoemaker, Deirdre et al., 2004g:83065**
Fomin, P. I. (*with* Shtanov, Yu. V.) Towards field theory in spaces with multivolume junctions. (English summary) **2004e:83071**
Galloway, Gregory J. Some global results for asymptotically simple space-times. (English summary) **2004k:53105**
García-Parrado, Alfonso (*with* Senovilla, José M. M.) Causal symmetries. (English summary) **2004f:53088**
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Gonçalves, Sérgio M. C. V. No-horizon theorem for spacetimes with spacelike G_1 isometry groups. (English summary) **2004m:83023**
Gundlach, Carsten *see* **Martín-García, José M.**
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Harris, Steven G. Causal boundary for standard static spacetimes. (English summary) **2004i:53106**
Heller, Michael (*with* Odrzygóźdź, Zdzisław; Pysiak, Leszek; Sasin, Wiesław) Structure of malicious singularities. (English summary) **2004g:83067**
Helliwell, T. M. *see* **Konkowski, D. A. et al., 2004m:81167**
Henneaux, Marc *see* **Damour, Thibault et al., 2004e:83124**
Hikida, Yasuaki (*with* Rey, Soo-Jong) Can branes travel beyond CTC horizon in Gödel universe? (English summary) **2004g:83118**
Israël, Dan Quantization of heterotic strings in a Gödel/anti de Sitter spacetime and chronology protection. (English summary) **2004m:83094**
Jhingan, Sanjay *see* **Feinstein, Alexander**
Kamenshchik, A. Yu. *see* **Khalatnikov, Isaak M. et al., 2004f:83015**
Kamran, Niky Some recent mathematical developments in general relativity. (French summary) **2004f:83017**
Karade, T. M. *see* **Borkar, M. S.**
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Kondracki, Witold *see* **Budzyński, Robert J. et al., 2004b:83006; 2004h:53098** *and* **2004j:53087**
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Królak, Andrzej *see* **Budzyński, Robert J. et al., 2004b:83006; 2004h:53098** *and* **2004j:53087**
Kumar, Jason A brief comment on instanton-like singularities and cosmological horizons. (English summary) **2004e:83103**
Laguna-Castillo, Pablo *see* **Shoemaker, Deirdre et al., 2004g:83065**
Lawrence, Albion On the instability of 3d null singularities. (English summary) **2004d:83082**
Maartens, Roy *see* **Ellis, George F. R., 2004m:83112**
Mallios, Anastasios (*with* Rosinger, Elemer E.) Dense singularities and de Rham cohomology. (English summary) **2004e:58004**
Martellini, Maurizio *see* **Khalatnikov, Isaak M. et al., 2004f:83015**
Martín-García, José M. (*with* Gundlach, Carsten) Global structure of Choptuik's critical solution in scalar field collapse. (English summary)
Matsuyama, Toyoki *see* **Kenmoku, Masakatsu et al., 2004g:83072**
Murugan, Jeff *see* **Ellis, George F. R. et al., 2004m:83113**
Narita, Makoto On the existence of global solutions for T^3-Gowdy spacetimes with stringy matter. (English summary) **2004e:83005**
Nicolai, Hermann *see* **Damour, Thibault et al., 2004e:83124**
Odrzygóźdź, Zdzisław *see* **Heller, Michael et al., 2004g:83067**
Oliveira-Neto, G. Naked singularities in three-dimensions. (English summary) **2004f:83056**
Pantoja, Nelson (*with* Rago, H.) Distributional sources in general relativity: two point-like examples revisited. (English summary) **2004c:83065**
Patil, K. D. Structure of radial null geodesics in higher dimensional dust collapse. (English summary) **2004c:83109**
Pysiak, Leszek *see* **Heller, Michael et al., 2004g:83067**
Rabinovici, Eliezer *see* **Giveon, Amit et al., 2004h:81193**
Rago, H. *see* **Pantoja, Nelson, 2004c:83065**
Rey, Soo-Jong *see* **Hikida, Yasuaki, 2004g:83118**
Rosinger, Elemer E. *see* **Mallios, Anastasios, 2004e:58004**
Sasin, Wiesław *see* **Heller, Michael et al., 2004g:83067**
Schnetter, Erik *see* **Shoemaker, Deirdre et al., 2004g:83065**
Scott, Susan M. *see* **Ashley, Michael J. S. L., 2004m:53122**
Senovilla, José M. M. *see* **García-Parrado, Alfonso, 2004f:53088**
Sever, Amit *see* **Giveon, Amit et al., 2004h:81193**
Shoemaker, Deirdre (*with* Smith, Kenneth L.; Sperhake, Ulrich; Laguna-Castillo, Pablo; Schnetter, Erik; Fiske, David) Moving black holes via singularity excision. (English summary) **2004g:83065**
Shtanov, Yu. V. *see* **Fomin, P. I., 2004e:83071**
Smith, Kenneth L. *see* **Shoemaker, Deirdre et al., 2004g:83065**
Sperhake, Ulrich *see* **Shoemaker, Deirdre et al., 2004g:83065**
Starobinskiĭ, A. A. *see* **Khalatnikov, Isaak M. et al., 2004f:83015**
Tsagas, Christos G. *see* **Ellis, George F. R. et al., 2004m:83113**
Uchida, Satoko *see* **Kenmoku, Masakatsu et al., 2004g:83072**
Vilasi, Gaetano *see* **Canfora, Fabrizio, 2004j:83061**
Villas Da Rocha, Jaime F. *see* **Brandt, C. F. C. et al., 2004g:83042**
Wang, Anzhong Critical collapse of a cylindrically symmetric scalar field in four-dimensional Einstein's theory of gravity. (English summary) **2004k:83033**
Wieland, C. *see* **Konkowski, D. A. et al., 2004m:81167**

83C80 Analogues in lower dimensions

Abreu, Everton M. C. Dual projection in a two-dimensional curved expanding universe. (English summary)
Accioly, Antonio Quadratic gravity theories in $2+1$ dimensions and the topological Chern-Simons term. (English summary) **2004h:83062**
Allemandi, G. (*with* Francaviglia, Mauro; Raiteri, M.) Covariant charges in Chern-Simons AdS_3 gravity. (English summary) **2004b:83088**
Alonso, J. L. (*with* Cortés, José Luis; Laliena, V.) Does a relativistic metric generalization of Newtonian gravity exist in $2+1$ dimensions? (English summary) **2004c:83076**
Ardelean, Gheorghe (*with* Cotăescu, Ion I.) Quantum particles inside Gaussian bags in $(1+1)$ general relativity. (English summary) **2004h:83063**
Ashtekar, Abhay (*with* Dreyer, Olaf; Wiśniewski, Jacek) Isolated horizons in $2+1$ gravity. (English summary) **2004b:83089**
Astorino, Marco (*with* Cacciatori, Sergio L.; Klemm, Dietmar; Zanon, Daniela) AdS_2 supergravity and superconformal quantum mechanics. (English summary) **2004d:83050**
Bais, F. Alexander (*with* Muller, N. M.; Schroers, Bernd J.) Quantum group symmetry and particle scattering in $(2+1)$-dimensional quantum gravity. (English summary) **2004c:83077**
Băleanu, Dumitru (*with* Güler, Yurdahan) 2D gravity and the Hamilton-Jacobi formalism. (English summary) **2004a:83047**
Bergamin, Luzi (*with* Kummer, Wolfgang) Graded Poisson-sigma models and dilaton-deformed 2D supergravity algebra. (English summary) **2004f:83051**
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Birkandan, Tolga (*with* Hortaçsu, M.) Three dimensional gravity in the presence of scalar fields. (English summary) **2004a:83048**
Blagojević, M. (*with* Vasilić, M.) Asymptotic symmetries in 3D gravity with torsion. (English summary) **2004e:83053**
Cacciatori, Sergio L. *see* **Astorino, Marco et al., 2004d:83050**
del Campo, Sergio *see* **Cataldo, Mauricio et al., 2004m:83064**
Cantini, Luigi (*with* Menotti, Pietro; Seminara, Domenico) Liouville theory, accessory parameters and $(2+1)$-dimensional gravity. (English summary) **2004d:83051**
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Cataldo, Mauricio (*with* Crisóstomo, Juan; del Campo, Sergio; Salgado, Patricio) On magnetic solution to $2+1$ Einstein-Maxwell gravity. (English summary) **2004m:83064**
Chekhov, L. O. (*with* Fock, V. V.) Observables in 3D gravity and geodesic algebras. (English summary) **2004g:83070**
Choi, Jaedong *see* **Hong, Soon-Tae et al., 2004j:83081**
Clément, Gérard Black hole mass and angular moment in $2+1$ gravity. (English summary) **2004m:83065**
Cortés, José Luis *see* **Alonso, J. L. et al., 2004c:83076**
Cotăescu, Ion I. *see* **Ardelean, Gheorghe, 2004h:83063**
Crisóstomo, Juan *see* **Cataldo, Mauricio et al., 2004m:83064**
Curry, Chris *see* **Fernando, Sharmanthie et al., 2004f:83052**
Das, Anadijiban (*with* Kloster, S.) Compactification of two dimensions in general relativity. (English summary) **2004e:83054**
Delfrate, D. G. (*with* Devecchi, F. P.; França, J. R.; Marchioro, D. F.) The zero-Hamiltonian problem in a toy gravity model. (English summary) **2004c:83078**
Devecchi, F. P. *see* **Delfrate, D. G. et al., 2004c:83078**
Dolby, Carl E. (*with* Goodsell, Mark D.; Gull, Stephen F.) The fermionic particle density of flat $(1+1)$-dimensional spacetime seen by an arbitrarily moving observer. (English summary) **2004i:83086**
Dreyer, Olaf *see* **Ashtekar, Abhay et al., 2004b:83089**
Fernando, Sharmanthie (*with* Krug, Don; Curry, Chris) Geodesic structure of static charged black hole solutions in $2+1$ dimensions. (English summary) **2004f:83052**
Filippov, A. T. (*with* Maison, Dieter) Horizons in $(1+1)$-dimensional dilaton gravity coupled to matter. (English summary) **2004b:83090**
Fock, V. V. *see* **Chekhov, L. O., 2004g:83070**
França, J. R. *see* **Delfrate, D. G. et al., 2004c:83078**
Francaviglia, Mauro *see* **Allemandi, G. et al., 2004b:83088**

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Giribet, Gastón E. Brief comments on Jackiw-Teitelboim gravity coupled to Liouville theory. (English summary) **2004e:83055**

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Goodsell, Mark D. *see* **Dolby, Carl E. et al., 2004i:83086**

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Grumiller, Daniel (*with* Kummer, Wolfgang) The classical solutions of the dimensionally reduced gravitational Chern-Simons theory. (English summary) **2004j:83080**

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Güler, Yurdahan *see* **Băleanu, Dumitru, 2004a:83047**

Gull, Stephen F. *see* **Dolby, Carl E. et al., 2004i:83086**

Guralnik, G. (*with* Iorio, A.; Jackiw, Roman W.; Pi, So-Young) Dimensionally reduced gravitational Chern-Simons term and its kink. (English summary) **2004h:83064**

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Hortaçsu, M. (*with* Özçelik, Hasan Tuncay; Yapışkan, Barış) Properties of solutions in $2+1$ dimensions. (English summary) **2004f:83054**

— *see also* **Birkandan, Tolga, 2004a:83048**

Ioannidou, Theodora Nontrivial scattering of solitons in a $(2+1)$-dimensional anti-de Sitter space. (Russian. Russian summary) **2004k:83089**

Iorio, A. *see* **Guralnik, G. et al., 2004h:83064**

Jackiw, Roman W. *see* **Guralnik, G. et al., 2004h:83064**

Jejjala, Vishnu (*with* Leigh, Robert G.; Minic, Djordje) The cosmological constant and the deconstruction of gravity. (English summary) **2004e:83056**

Kar, Sayan *see* **Koley, Ratna et al., 2004h:83065**

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Kerner, Ryan James (*with* Mann, Robert) Dynamical N-body equilibrium in circular dilaton gravity. (English summary) **2004b:83092**

Kevrekidis, Panayotis G. *see* **Williams, Floyd L., 2004f:83057**

Kim, Won Tae (*with* Son, Edwin J.) Exactly soluble model for self-gravitating D-particles with the wormhole. (English summary) **2004i:83087**

Klemm, Dietmar *see* **Astorino, Marco et al., 2004d:83050**

Kloster, S. *see* **Das, Anadijiban, 2004c:83054**

Koley, Ratna (*with* Pal, Supratik; Kar, Sayan) Geodesics and geodesic deviation in a two-dimensional black hole. (English summary) **2004h:83065**

Kostov, Ivan K. Boundary correlators in 2D quantum gravity: Liouville versus discrete approach. (English summary) **2004d:83052**

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— $\Lambda < 0$ quantum gravity in $2+1$ dimensions. II. Black-hole creation by point particles. (English summary) **2004j:83083**

Krug, Don *see* **Fernando, Sharmanthie et al., 2004f:83052**

Kummer, Wolfgang *see* **Bergamin, Luzi, 2004f:83051**; **Grumiller, Daniel et al., 2004g:83071** *and* **2004j:83080**

Laliena, V. *see* **Alonso, J. L. et al., 2004c:83076**

Lee, Chi-Wei Herbert Noncommutative probability, Matrix models, and quantum orbifold geometry. (English summary) **2004h:83066**

— (*with* Mann, Robert) String bit models of two-dimensional quantum gravity coupled with matter. (English summary) **2004j:83084**

Leigh, Robert G. *see* **Jejjala, Vishnu et al., 2004e:83056**

Maison, Dieter *see* **Filippov, A. T., 2004b:83090**

Mann, Robert *see* **Kerner, Ryan James, 2004b:83092** *and* **Lee, Chi-Wei Herbert, 2004j:83084**

Marchioro, D. F. *see* **Delfrate, D. G. et al., 2004c:83078**

Martínez, Cristián *see* **Gegenberg, Jack et al., 2004f:83053**

Matsuyama, Toyoki *see* **Kenmoku, Masakatsu et al., 2004g:83072**

Medved, Allan Joseph Michael Quantum-corrected entropy for $(1+1)$-dimensional gravity revisited. (English summary) **2004b:83094**

— Holographic central charge for 2-dimensional de Sitter space. (English summary) **2004f:83055**

Menotti, Pietro Hamiltonian structure of $2+1$ dimensional gravity. (English summary) **2004i:83088**

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Meusburger, C. (*with* Schroers, Bernd J.) Poisson structure and symmetry in the Chern-Simons formulation of $(2+1)$-dimensional gravity. (English summary) **2004d:83053**

Minic, Djordje *see* **Jejjala, Vishnu et al., 2004e:83056**

Miwa, Akitsugu *see* **Fukuma, Masafumi et al., 2004m:83066**

Moretti, Valter (*with* Pinamonti, Nicola) Aspects of hidden and manifest $\mathrm{SL}(2,\mathbb{R})$ symmetry in 2D near-horizon black-hole backgrounds. (English summary) **2004d:83054**

Muller, N. M. *see* **Bais, F. Alexander et al., 2004c:83077**

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— Hamilton-Jacobi quantization of two-dimensional gravity with torsion. (English summary)

Myung, Yun Soo Absorption cross-section in de Sitter space. (English summary) **2004a:83050**

Oliveira-Neto, G. Naked singularities in three-dimensions. (English summary) **2004f:83056**

Özçelik, Hasan Tuncay *see* **Hortaçsu, M. et al., 2004f:83054**

Pal, Supratik *see* **Koley, Ratna et al., 2004h:83065**

Park, Dal-Ho Exact rotating solutions with dilaton and axion. (English summary) **2004k:83090**

Park, Young-Jai *see* **Hong, Soon-Tae et al., 2004j:83081**

Pi, So-Young *see* **Guralnik, G. et al., 2004h:83064**

Pinamonti, Nicola *see* **Moretti, Valter, 2004d:83054**

Rabinovici, Eliezer *see* **Giveon, Amit et al., 2004k:83087**

Raiteri, M. *see* **Allemandi, G. et al., 2004b:83088**

Salgado, Patricio *see* **Cataldo, Mauricio et al., 2004m:83064**

Schroers, Bernd J. *see* **Bais, F. Alexander et al., 2004c:83077** *and* **Meusburger, C., 2004d:83053**

Seminara, Domenico *see* **Cantini, Luigi et al., 2004d:83051**

Sever, Amit *see* **Giveon, Amit et al., 2004k:83087**

Son, Edwin J. *see* **Kim, Won Tae, 2004i:83087**

Takahashi, Kazuyoshi[2] *see* **Fukuma, Masafumi et al., 2004m:83066**

Tong, David Mirror mirror on the wall (on two-dimensional black holes and Liouville theory). (English summary) **2004e:83057**

Troncoso, Ricardo *see* **Gegenberg, Jack et al., 2004f:83053**

Troost, Jan (*with* Tsuchiya, Asato) Towards black hole scattering. (English summary) **2004m:83067**

Tsuchiya, Asato *see* **Troost, Jan, 2004m:83067**

Uchida, Satoko *see* **Kenmoku, Masakatsu et al., 2004g:83072**

Ushakov, E. A. *see* **Grinchuk, A. V., 2004b:83091**

Vagenas, Elias C. Energy and momentum distributions of a $(2+1)$-dimensional black hole background. (English summary) **2004j:83085**

— 2d stringy black holes and varying constants. (English summary) **2004g:83073**

Vasilevich, D. V. *see* **Grumiller, Daniel et al., 2004g:83071**

Vasilić, M. *see* **Blagojević, M., 2004e:83053**

Williams, Floyd L. (*with* Kevrekidis, Panayotis G.) On $(2+1)$-dimensional Friedmann-Robertson-Walker universes: an Ermakov-Pinney equation approach. (English summary) **2004f:83057**

Wiśniewski, Jacek *see* **Ashtekar, Abhay et al., 2004b:83089**

Yapışkan, Barış *see* **Hortaçsu, M. et al., 2004f:83054**

Zanon, Daniela *see* **Astorino, Marco et al., 2004d:83050**

Zaslavskii, O. B. Exactly solvable models of two-dimensional dilaton cosmology with quantum backreaction. (English summary) **2004f:83058**

— Regular self-consistent geometries with infinite quantum backreaction in 2D dilaton gravity and black hole thermodynamics: unfamiliar features of familiar models. (English summary) **2004e:83058**

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83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories

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Modak, B. *see* **Kamilya, S. et al., 2004j:83089** *and* **2004j:83090**
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Pavlovskiĭ, O. V. Yang-Mills theory as bimetrical gravity: polarization effects and finite-energy gluon clusters. (English summary) **2004b:83103**
Pereira, J. G. *see* **Obukhov, Yu. N.**, **2004b:83102**; **Aldrovandi, R. et al.**, **2004e:83061**; **2004j:83087**; **2004k:83094** *and* **Maluf, José Wadih**, **2004h:83067**
Perez Bergliaffa, Santiago Esteban *see* **Novello, M. et al.**
Pimentel, B. M. *see* **Casana, R. et al.**, **2004d:83061**
Pimentel, Luis O. *see* **Macías, Alfredo et al.**, **2004c:83085**
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Salgado, Patricio *see* **del Campo, Sergio**
Schimming, Rainer *see* **Garecki, Janusz**, **2004g:83078**
Shen, L. M. *see* **Lu, Hui Qing et al.**, **2004k:83099**
Shi, Q. P. *see* **Lu, Hui Qing et al.**, **2004k:83099**
Singh, Lambodar Prasad *see* **Sahoo, B. K.**
So, Keum Sook *see* **Kim, Mi Ae et al.**, **2004a:83052**; **2004b:83100** *and* **2004b:83101**
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Soussa, M. E. (*with* Woodard, Richard P.) A nonlocal metric formulation of MOND. (English summary) **2004g:83080**
Tartaglia, Angelo *see* **Ruggiero, M. L.**, **2004i:83096**
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Yamada, N. *see* **Ezawa, Yasuo et al.**, **2004i:83093**
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Leyva, Yoelsy *see* **Arias, Olga et al.**
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Sakane, Eisaku (*with* Kawai, Toshiharu) Energy-momentum and angular momentum carried by gravitational waves in extended new general relativity. (English summary) **2004c:83038**
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Singh, Triloki On exact static spherically symmetric solutions in general relativity, Einstein-Cartan theory and higher-dimensional theories. (English summary) **2004b:83018**
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83Exx Unified, higher-dimensional and super field theories

83E05 Geometrodynamics

Culetu, H. On the gravitational energy of the Hawking wormhole. (English summary)
Dadhich, Naresh *see* **Visser, Matt et al.**, **2004g:83083**
Das, Anadijiban *see* **DeBenedictis, A.**, **2004h:83068**
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Dzhunushaliev, Vladimir Delta-string—a hybrid between wormhole and string. (English summary) **2004e:83069**
Kar, Sayan *see* **Visser, Matt et al.**, **2004g:83083**
Kuhfittig, Peter K. F. Axially symmetric rotating traversable wormholes. (English summary) **2004g:83082**
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Hayward, Sean A. Wormholes supported by pure exotic radiation. (English summary) **2004d:83011**
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Quevedo, Hernando *see* **Zárate, Rubén D., 2004m:83043**

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83E15 Kaluza-Klein and other higher-dimensional theories

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Bertolami, Orfeu *see* **Bento, M. C. et al., 2004b:83107**

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Carrión, Juan Martín *see* **González-Díaz, Pedro F., 2004k:83108**

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Davidson, Aharon *see* **Karasik, David, 2004g:83104**

Davis, Anne Christine *see* **Brax, Philippe et al., 2004d:83065**

Davis, Stephen C. Generalized Israel junction conditions for a Gauss-Bonnet brane world. (English summary) **2004b:83109**

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Davoudiasl, Hooman (*with* Hewett, JoAnne L.; Rizzo, Thomas Gerard) Phenomenology on a slice of $AdS_5 \times \mathscr{M}^\delta$ spacetime. (English summary) **2004g:83093**

— (*with* Hewett, JoAnne L.; Rizzo, Thomas Gerard) Brane localized curvature for warped gravitons. (English summary) **2004h:83071**
— (*with* Hewett, JoAnne L.; Rizzo, Thomas Gerard) Brane-localized kinetic terms in the Randall-Sundrum model. (English summary)
De, Archan Kumar (*with* Bhanja, Sisir; Chakraborty, Subenoy) String cosmology in brane world scenarios. (English summary)
Debnath, Ujjal *see* **Chakraborty, Subenoy**, **2004f:83067**
Deffayet, Cédric Aspects of scalar brane-world cosmological perturbations. (English summary)
Dehghani, M. H. Charged rotating black branes in anti-de Sitter Einstein-Gauss-Bonnet gravity. (English summary)
Dehnen, Heinz *see* **Bronnikov, Kirill A. et al.**, **2004j:83094**
Delgado, Antonio *see* **Agashe, K.**, **2004c:83090**
Descheneau, Julie *see* **Cline, James M. et al.**, **2004f:83068**
De Smet, Pieter-Jan Five-dimensional metrics of Petrov type 22. (English summary) **2004i:83104**
DeWolfe, Oliver (*with* Giddings, Steven B.) Scales and hierarchies in warped compactifications and brane worlds. (English summary) **2004m:83073**
— *see also* **Aharony, Ofer et al.**, **2004i:83097** *and* **Bousso, Raphael et al.**, **2004m:83071**
Dufaux, Jean-François *see* **Charmousis, Christos et al.**
Dunsby, Peter K. S. *see* **Goheer, Naureen**, **2004g:83098**
Duvvuri, Vikram *see* **Armendáriz-Picón, C.**, **2004m:83070**
Dvali, Gia (*with* Gabadadze, Gregory; Hou, Xin-rui; Sefusatti, Emiliano) Seesaw modification of gravity. (English summary) **2004b:83110**
— (*with* Gabadadze, Gregory; Shifman, M.) Diluting the cosmological constant in infinite volume extra dimensions. (English summary) **2004c:83094**
Dzhunushaliev, Vladimir Some properties of a Δ-string. (English summary) **2004d:83071**
— Strings from flux tube solutions in Kaluza-Klein theory. (English summary) **2004c:83095**
Elizalde, Emilio (*with* Nojiri, Shin'ichi; Odintsov, Sergei D.; Ogushi, Sachiko) Casimir effect in de Sitter and anti-de Sitter braneworlds. (English summary) **2004g:83094**
— *see also* **Cognola, Guido et al.**, **2004m:83072**
Ellwanger, Ulrich *see* **Charmousis, Christos**
Emparan, Roberto (*with* García-Bellido, Juan; Kaloper, Nemanja) Black hole astrophysics in AdS braneworlds. (English summary) **2004b:83111**
Fadeev, S. B. *see* **Bronnikov, Kirill A. et al.**, **2004a:83056** *and* **2004i:83101**
Fatibene, L. *see* **Clarkson, R. et al.**, **2004a:83059**
Felder, Gary N. Warped geometry of brane worlds. (English summary)
— (*with* Frolov, Andrei V.; Kofman, Lev) Warped geometry of brane worlds with scalar fields. (English summary) **2004k:83105**
Firouzjahi, Hassan (*with* Leblond, Frédéric) The clash between de Sitter and anti-de Sitter space. (English summary) **2004f:83070**
Flachi, Antonino (*with* Pujolàs, Oriol) Quantum self-consistency of Ads × Σ brane models. (English summary) **2004j:83097**
Flak, Marcin P. (*with* Meissner, Krzysztof A.) Nonsupersymmetric multibrane solutions. (English summary) **2004h:83072**
Fomin, P. I. (*with* Shtanov, Yu. V.) Towards field theory in spaces with multivolume junctions. (English summary) **2004e:83071**
Freedman, Daniel Z. *see* **Aharony, Ofer et al.**, **2004i:83097**
Freese, Katherine (*with* Lewis, Matthew J.; van der Schaar, Jan Pieter) Observational tests of open strings in braneworld scenarios. (English summary) **2004g:83095**
Frolov, Andrei V. *see* **Felder, Gary N. et al.**, **2004k:83105**
Gabadadze, Gregory *see* **Dvali, Gia et al.**, **2004b:83110** *and* **2004c:83094**
García-Bellido, Juan *see* **Emparan, Roberto et al.**, **2004b:83111**
Garriga, Jaume Moduli fields in warped compactifications. (English summary) **2004j:83098**
— (*with* Pujolàs, Oriol; Tanaka, Takahiro) Moduli effective action in warped brane-world compactifications. (English summary) **2004b:83112**
Gegenberg, Jack (*with* Kunstatter, Gabor) Boundary dynamics of higher dimensional Chern-Simons gravity. (English summary) **2004g:83096**
Gen, Uchida (*with* Ishibashi, Akihiro; Tanaka, Takahiro) Brane collisions and braneworld cosmology. (English summary) **2004k:83106**
Gherghetta, Tony (*with* Oz, Yaron) Supergravity, nonconformal field theories, and brane-worlds. (English summary) **2004b:83113**
Ghoroku, Kazuo (*with* Yahiro, Masanobu) Scalar field localization on a brane with cosmological constant. (English summary) **2004g:83097**
— (*with* Nakamura, Akihiro[2]; Yahiro, Masanobu) Newton's law in de Sitter brane. (English summary) **2004j:83099**
Giannakis, Ioannis (*with* Liu, James T.; Ren, Hai-Cang) Linearized gravity in the Karch-Randall braneworld. (English summary) **2004e:83072**
— (*with* Liu, James T.; Ren, Hai-Cang) The radion in the Karch-Randall braneworld. (English summary)
Giddings, Steven B. The fate of four dimensions. (English summary) **2004k:83107**
— *see also* **DeWolfe, Oliver**, **2004m:83073**
Giovannini, Massimo Scalar normal modes of higher-dimensional gravitating kinks. (English summary) **2004a:83060**
— *see also* **Cline, James M. et al.**, **2004f:83068**
Gladush, V. D. Five-dimensional general relativity theory and the Kaluza-Klein theory. (Russian. Russian summary) **2004i:83105**
Gogberashvili, Merab Gravitational trapping for extended extra dimension. (English summary) **2004e:83073**
— (*with* Midodashvili, P.) Localization of fields on a brane in six dimensions. (English summary) **2004c:83096**
— Brane gravity from bulk vector field. (English summary) **2004d:83072**
Goheer, Naureen (*with* Dunsby, Peter K. S.) Exponential potentials on the brane. (English summary) **2004g:83098**
González-Díaz, Pedro F. Cosmological predictions from the Misner brane. (English summary)
— Tensorial perturbations in the bulk of inflating brane worlds. (English summary)
— (*with* Carrión, Juan Martín) Self-creating brane worlds. (English summary) **2004k:83108**
— *see also* **Bouhmadi, Marian et al.**, **2004d:83064** *and* **2004g:83088**
Gordon, Christopher *see* **Gumjudpai, Burin et al.**, **2004f:83071**
Gorskĭı, A. S. (*with* Selivanov, Konstantin G.) Brane tunneling and the brane world scenario. (English summary) **2004g:83099**
Grebeniuk, M. A. (*with* Mel'nikov, V. N.) Multidimensional gravity and cosmology and problems of G. (English summary) **2004b:83114**
Gregory, James P. (*with* Padilla, Antonio) Braneworld holography in Gauss-Bonnet gravity. (English summary) **2004i:83106**
Gregory, Ruth (*with* Santos, Caroline) Spacetime structure of the global vortex. (English summary) **2004c:83097**
— Inflating p-branes. (English summary) **2004m:83074**
— *see also* **Charmousis, Christos**, **2004j:83095**
Grzadkowski, Bohdan *see* **Bucci, Patrizia**
Gubser, Steven S. (*with* Mitra, Indrajit[2]) Some interesting violations of the Breitenlohner-Freedman bound. (English summary) **2004k:83109**
Gumjudpai, Burin (*with* Maartens, Roy; Gordon, Christopher) Density perturbations in a braneworld universe with dark radiation. (English summary) **2004f:83071**
Günther, Uwe (*with* Vargas Moniz, P.; Zhuk, A. I.) Nonlinear multidimensional cosmological models with form fields: stabilization of extra dimensions and the cosmological constant problem. (English summary)
Gürses, Metin (*with* İpekoğlu, Y.; Karasu, Atalay; Şentürk, Ç.) Higher dimensional Bell-Szekeres metric. (English summary) **2004m:83075**
Gutperle, Michael (*with* Pioline, Boris) Type-IIB colliding plane waves. (English summary) **2004j:83100**
Halpern, Paul The mixmaster universe in five dimensions. (English summary) **2004g:83100**
Harko, T. (*with* Mak, Man-Kong) Viscous Bianchi type I universes in brane cosmology. (English summary) **2004a:83061**
— (*with* Mak, Man-Kong) Anisotropy in Bianchi-type brane cosmologies. (English summary) **2004m:83076**
de Haro, Sebastian *see* **Solodukhin, S. N. et al.**, **2004f:83076**
Harris, Christopher M. (*with* Kanti, Panagiota) Hawking radiation from a $(4+n)$-dimensional black hole: exact results for the Schwarzschild phase. (English summary) **2004j:83101**
Hartmann, Betti *see* **Brihaye, Yves et al.**, **2004d:83066**
Hayakawa, Shoko (*with* Ida, Daisuke; Shiromizu, Tetsuya; Tanaka, Takahiro) Gravitation in the codimension two brane world. (English summary) **2004k:83110**
He, Yanjing *see* **van den Hoogen, R. J. et al.**, **2004j:83103**
Henneaux, Marc *see* **Damour, Thibault et al.**, **2004g:83092**
Hervik, Sigbjørn (*with* Kunduri, Hari K.; Lucietti, James) Homogeneous plane-wave spacetimes and their stability. (English summary) **2004m:83077**
Hewett, JoAnne L. *see* **Davoudiasl, Hooman et al.**, **2004g:83093** *and* **2004h:83071**
Himemoto, Yoshiaki (*with* Sasaki, Misao) Braneworld inflation driven by dynamics of a bulk scalar field. (English summary) **2004j:83102**
Ho, Pei-Ming *see* **Chen, Chiang-Mei et al.**, **2004h:83070**
Hofmann, Ralf (*with* Pospelov, Maxim) Conformal matter in warped backgrounds. (English summary) **2004c:83098**
Höglund, A. *see* **Bergqvist, G.**, **2004b:83108**
Holman, Richard *see* **Collins, Hael**
van den Hoogen, R. J. (*with* Ibáñez, Jesús[1]) Bianchi type II brane-world cosmologies ($\mathscr{R} \geq 0$). (English summary) **2004g:83101**
— (*with* Coley, Alan A.; He, Yanjing) Bianchi type IX brane-world cosmologies. (English summary) **2004j:83103**
Hou, Xin-rui *see* **Dvali, Gia et al.**, **2004b:83110**
Hubeny, Veronika E. (*with* Rangamani, Mukund) Causal structures of pp-waves. (English summary) **2004b:83115**
Hull, Christopher M. *see* **de Medeiros, P. F.**, **2004e:83076**
Husain, Viqar *see* **Das, Saurya**, **2004i:83103**
Ibáñez, Jesús[1] *see* **van den Hoogen, R. J.**, **2004g:83101**
Ida, Daisuke *see* **Hayakawa, Shoko et al.**, **2004k:83110**
Inagaki, Tomohiro Dynamical symmetry breaking in Randall-Sundrum background. (English and Russian summaries) **2004i:83107**
İpekoğlu, Y. *see* **Gürses, Metin et al.**, **2004m:83075**
Ishibashi, Akihiro *see* **Gen, Uchida et al.**, **2004k:83106**
Ito, Masato[2] Localized gravity on de Sitter brane in five dimensions. (English summary) **2004i:83108**
— Casimir energies due to matter fields in T^2 and T^2/Z_2 compactifications. (English summary) **2004i:83109**
Ivanov, M. G. *see* **Aref'eva, Irina Ya. et al.**, **2004g:83084**
Ivashchuk, Vladimir D. Composite fluxbranes with general intersections. (English summary) **2004d:83073**
— (*with* Mel'nikov, V. N.; Selivanov, A. B.) Simulation of intersecting black brane solutions by a multicomponent anisotropic fluid. (English and Russian summaries) **2004j:83105**
— Generalized pp-wave solutions on products of Ricci-flat spaces. (English and Russian summaries) **2004i:83110**
— (*with* Mel'nikov, V. N.; Selivanov, A. B.) Cosmological solutions in multidimensional model with multiple exponential potential. (English summary) **2004j:83104**
Izaurieta, F. *see* **Salgado, Patricio et al.**, **2004k:83125**
Izquierdo, José M.[1] *see* **Bandos, Igor A. et al.**, **2004j:83093**
Jejjala, Vishnu (*with* Leigh, Robert G.; Minic, Djordje) Deconstruction and holography. (English summary) **2004e:83074**
Jiang, Jing[1] (*with* Li, Tianjun[1]) Self-tuning and de Sitter brane intersections in 6-dimensional brane models. (English summary) **2004a:83062**
Jones, Nicholas T. (*with* Stoica, Horace; Tye, S.-H. Henry) Brane interaction as the origin of inflation. (English summary) **2004b:83116**
Jung, Eylee (*with* Kim, Sung-Hoon; Park, DaeKil) Newton law on the generalized singular brane with and without 4d induced gravity. (English summary) **2004g:83102**
Kachru, Shamit (*with* McAllister, Liam) Bouncing brane cosmologies from warped string compactifications. (English summary) **2004c:83099**
Kallosh, Renata Cosmological constant, the brane world and supersymmetry. (English summary) **2004g:83103**

Kaloper, Nemanja *see* **Emparan, Roberto et al., 2004b:83111**
Kamenshchik, A. Yu. *see* **Barvinskiĭ, A. O. et al., 2004c:83091** *and* **2004i:83098**
Kanno, Sugumi (*with* Sasaki, Misao; Soda, Jiro) Born-again braneworld. (English summary) **2004c:83100**
Kanti, Panagiota (*with* Lee, Seokcheon; Olive, Keith A.) Stable, time-dependent, exact solutions for brane models with a bulk scalar field. (English summary) **2004b:83117**
— *see also* **Harris, Christopher M., 2004j:83101**
Kao, Win Fun *see* **Chen, Chiang-Mei, 2004k:83103**
Karasik, David (*with* Davidson, Aharon) Geodetic brane gravity. (English summary) **2004g:83104**
Karasu, Atalay *see* **Gürses, Metin et al., 2004m:83075**
Karch, Andreas Auto-localization in de-Sitter space. (English summary) **2004h:83073**
— *see also* **Aharony, Ofer et al., 2004i:83097**
Kiefer, Claus *see* **Barvinskiĭ, A. O. et al., 2004c:83091** *and* **2004i:83098**
Kim, Donghyun (*with* Kim, Yoonbai; Lee, Jung Jai) Black brane world from gravitating half σ-lump. (English summary)
Kim, Jin Young *see* **Myung, Yun Soo, 2004d:83076**
Kim, Sung-Hoon *see* **Jung, Eylee et al., 2004g:83102**
Kim, Sung-Won *see* **Bronnikov, Kirill A., 2004g:83090**
Kim, Yoonbai *see* **Kim, Donghyun et al.**
Kiritsis, Elias (*with* Kofinas, Georgios; Tetradis, Nikolaos; Tomaras, Theodore N.; Zarikas, Vasilios) Cosmological evolution with brane-bulk energy exchange. (English summary) **2004c:83101**
Klein, Matthias On supersymmetry breaking in intersecting brane models. (English summary)
Kobayashi, Shinpei (*with* Koyama, Kazuya) Cosmology with radion and bulk scalar field in two branes model. (English summary) **2004a:83063**
Kodama, Hideo Rigidity theorems in the braneworld model. (English summary) **2004k:83111**
Kofinas, Georgios (*with* Maartens, Roy; Papantonopoulos, Eleftherios) Brane cosmology with curvature corrections. (English summary) **2004j:83106**
— *see also* **Kiritsis, Elias et al., 2004c:83101**
Kofman, Lev *see* **Felder, Gary N. et al., 2004k:83105**
Kohler, Christopher Five-dimensional unification of the cosmological constant and the photon mass. (English summary) **2004d:83074**
Kokarev, S. S. Nematic structure of space-time and its topological defects in 5D Kaluza-Klein theory. (English summary) **2004f:83072**
Kolanović, Marko Gravity induced over a smooth soliton. (English summary) **2004g:83105**
— (*with* Porrati, Massimo; Rombouts, Jan-Willem) Regularization of brane induced gravity. (English summary) **2004j:83107**
Körs, Boris *see* **Blumenhagen, Ralph et al., 2004g:83087**
Kowalska, Kamila (*with* Turzyński, Krzysztof) On Friedmann equation and the radion stabilization in two-brane models with dynamical matter. (English summary)
Koyama, Kazuya Radion and large scale anisotropy on the brane. (English summary) **2004k:83112**
— (*with* Takahashi, Keitaro) Exactly solvable model for cosmological perturbations in dilatonic brane worlds. (English summary)
— *see also* **Kobayashi, Shinpei, 2004a:83063**; **Soda, Jiro, 2004k:83127** *and* **Shiromizu, Tetsuya et al.**
Krause, Axel A small cosmological constant and backreaction of non-finetuned parameters. (English summary)
Kremer, G. M. Brane cosmology with a van der Waals equation of state. (English summary)
Kudoh, Hideaki Gravity beyond linear perturbations in the braneworld. (English summary) **2004j:83108**
— (*with* Tanaka, Takahiro) Second order perturbations in the radius stabilized Randall-Sundrum two branes model. II. Effect of relaxing strong coupling approximation. (English summary) **2004c:83102**
— (*with* Tanaka, Takahiro; Nakamura, Takashi[1]) Small localized black holes in a braneworld: formulation and numerical method. (English summary)
Kunduri, Hari K. *see* **Hervik, Sigbjørn et al., 2004m:83077**
Kunstatter, Gabor *see* **Gegenberg, Jack, 2004g:83096**
Kurita, Yasunari (*with* Sakagami, Masa-aki) Quasi-normal modes of D3-brane black holes. (English summary) **2004k:83113**
Kuusk, Piret (*with* Saal, Margus) A cosmological model of holographic brane gravity. (English summary) **2004k:83114**
La Camera, M. Wormhole solutions in the Randall-Sundrum scenario. (English summary) **2004i:83111**
Ladke, L. S. (*with* Zade, V. T.; Thengane, K. D.) Non-existence of plane wave solutions of the field equations $R_{ij} = \lambda g_{ij}$ in six dimensional space-time. (English summary)
Laine, Mikko (*with* Meyer, Harvey B.; Rummukainen, Kari; Shaposhnikov, Mikhail) Localisation and mass generation for non-abelian gauge fields. (English summary) **2004b:83118**
Langlois, David (*with* Sasaki, Misao) Massive scalar states localized on a de Sitter brane. (English summary) **2004k:83115**
— *see also* **Brax, Philippe et al., 2004i:83100**
Lazkoz Saez, R. *see* **Aguirregabiria, Juan M. et al.**
Leblond, Frédéric *see* **Firouzjahi, Hassan, 2004f:83070**
Lee, Jung Jai *see* **Kim, Donghyun et al.**
Lee, Seokcheon *see* **Kanti, Panagiota et al., 2004b:83117**
Leeper, Emily (*with* Maartens, Roy; Sopuerta, Carlos F.) Dynamics of radiating braneworlds. (English summary)
Leigh, Robert G. *see* **Jejjala, Vishnu et al., 2004e:83074**
Leiva, Carlos (*with* Plyushchaĭ, M. S.) Conformal symmetry of relativistic and nonrelativistic systems and AdS/CFT correspondence. (English summary) **2004k:83116**
Lewandowski, Adam (*with* May, Michael J.; Sundrum, Raman) Running with the radius in RS1. (English summary) **2004b:83119**
— (*with* Redi, Michele) Spin and a running radius in the Randall-Sundrum model. I. (English summary) **2004k:83117**
Lewis, Matthew J. *see* **Freese, Katherine et al., 2004g:83095**
Li, Tianjun[1] *see* **Jiang, Jing[1], 2004a:83062**
Li, Xin-Zhou *see* **Liu, Dao-jun, 2004k:83118**
Lidsey, James E. (*with* Nojiri, Shin'ichi; Odintsov, Sergei D.; Ogushi, Sachiko) The AdS/CFT correspondence and logarithmic corrections to braneworld cosmology and the Cardy-Verlinde formula. (English summary) **2004j:83109**
Liu, Dao-jun (*with* Li, Xin-Zhou) Born-Infeld-type phantom on the brane world. (English summary) **2004k:83118**
Liu, Hongya Exact global solutions of brane universes and big bounce. (English summary) **2004c:83103**
Liu, James T. *see* **Giannakis, Ioannis et al., 2004e:83072**
López-Ortega, A. Klein-Gordon field in the rotating black branes wrapped on Einstein spaces. (English summary) **2004j:83110**
Loup, Fernando (*with* Santos, Paulo Alexandre; da Silva Santos, Dorabella Martins) Can geodesics in extra dimensions solve the cosmic light speed limit? (English summary)
— (*with* Santos, Paulo Alexandre; da Silva Santos, Dorabella Martins) The dynamics of Chung-Freese braneworld. (English summary) **2004i:83112**
Lozano, Enrique *see* **Macías, Alfredo, 2004e:83075**
Lucietti, James *see* **Hervik, Sigbjorn et al., 2004m:83077**
Lue, Arthur Global structure of Deffayet (Dvali-Gabadadze-Porrati) cosmologies. (English summary) **2004g:83106**
Lukierski, Jerzy *see* **Bandos, Igor A. et al., 2004j:83093**
Lüst, Dieter *see* **Blumenhagen, Ralph et al., 2004g:83087**
Ma, Yongge *see* **Yang, Xuejun et al., 2004k:83131**
Maartens, Roy *see* **Gumjudpai, Burin et al., 2004f:83071**; **Barceló, Carlos et al., 2004g:83085**; **Kofinas, Georgios et al., 2004j:83106**; **Leeper, Emily et al.** *and* **Campos, Antonio et al.**
Macesanu, C. (*with* Mitov, A.; Nandi, Satya) Gravity and matter in extra dimensions. (English summary) **2004k:83119**
Macías, Alfredo (*with* Lozano, Enrique) Plane-fronted waves from 5D Chern-Simons gravity. (English summary) **2004e:83075**
Maeda, Kei-ichi (*with* Mizuno, Shuntaro; Torii, Takashi[1]) Effective gravitational equations on a brane world with induced gravity. (English summary)
— *see also* **Mizuno, Shuntaro et al., 2004c:83104** *and* **Uzawa, Kunihito, 2004k:83129**
Maia, M. D. *see* **Monte, E. M., 2004c:83105**
Mak, Man-Kong *see* **Harko, T., 2004a:83061** *and* **2004m:83076**
Mann, Robert *see* **Clarkson, R. et al., 2004a:83059**
Mansouri, R. *see* **Setare, Mohammad R.**
Marrakchi, A. L. *see* **Boutaleb-Joutei, Hafid et al.**
Mathur, Samir D. *see* **Brower, Richard C. et al., 2004d:83067**
Matravers, David R. *see* **Campos, Antonio et al.**
Matsuda, Tomohiro Nontachyonic brane inflation. (English summary)
May, Michael J. *see* **Lewandowski, Adam et al., 2004b:83119**
Mazzacurati, Lorenzo *see* **Casadio, Roberto, 2004a:83058**
McAllister, Liam *see* **Kachru, Shamit, 2004c:83099**
McInnes, Brett Stringy instability of topologically non-trivial AdS black holes and of de Sitter S-brane spacetimes. (English summary) **2004f:83073**
de Medeiros, P. F. (*with* Hull, Christopher M.) Exotic tensor gauge theory and duality. (English summary) **2004e:83076**
Medved, Allan Joseph Michael Of bounces, branes and bounds. (English summary) **2004d:83075**
Meierovich, Boris E. *see* **Bronnikov, Kirill A.**
Meissner, Krzysztof A. (*with* Olechowski, Marek) General warped solutions in 5D dilaton gravity. (English summary) **2004h:83074**
— *see also* **Flak, Marcin P., 2004h:83072**
Melfo, Alejandra (*with* Pantoja, Nelson; Skirzewski, Aureliano) Thick domain wall spacetimes with and without reflection symmetry. (English summary)
Mel'nikov, V. N. Multidimensional gravity and cosmology with fields of forms. (English summary) **2004e:83077**
— *see also* **Grebeniuk, M. A., 2004b:83114**; **Bronnikov, Kirill A. et al., 2004j:83094**; **Ivashchuk, Vladimir D. et al., 2004j:83104** *and* **2004j:83105**
Meyer, Harvey B. *see* **Laine, Mikko et al., 2004b:83118**
Miao, Yan-Gang *see* **Park, DaeKil et al., 2004m:83079**
Michtchenko, A. V. *see* **Bronnikov, Kirill A. et al., 2004a:83056** *and* **2004i:83101**
Midodashvili, P. *see* **Gogberashvili, Merab, 2004c:83096**
Minic, Djordje *see* **Jejjala, Vishnu et al., 2004e:83074**
Mishima, Takashi *see* **Nakamura, Kouji et al., 2004k:83120**
Mitov, A. *see* **Macesanu, C. et al., 2004k:83119**
Mitra, Indrajit[2] *see* **Gubser, Steven S., 2004k:83109**
Mizuno, Shuntaro (*with* Maeda, Kei-ichi; Yamamoto, Kohta) Dynamics of a scalar field in a brane world. (English summary) **2004c:83104**
— *see also* **Maeda, Kei-ichi et al.**
Monte, E. M. (*with* Maia, M. D.) On Schwarzschild's topology in brane-worlds. (English summary) **2004c:83105**
Moreno, Jesus M. *see* **de Carlos, Beatriz, 2004k:83102**
Morris, John R. Domain bubbles of extra dimensions. (English summary) **2004c:83106**
Moss, Ian G. (*with* Naylor, Wade; Santiago-Germán, Wenceslao; Sasaki, Misao) Bulk quantum effects for de Sitter branes in AdS_5. (English summary)
— (*with* Naylor, Wade) Quantum corrections to the kinetic term in the Randall-Sundrum model. (English summary)
Mück, Wolfgang *see* **Aref'eva, Irina Ya. et al., 2004g:83084**
Mukherji, Sudipta *see* **Biswas, Anindya et al.**
Mukohyama, Shinji Non-locality as an essential feature of brane worlds. (English summary) **2004j:83111**
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Nandi, Satya *see* **Macesanu, C. et al., 2004k:83119**
Nascimento, J. R. S. *see* **Bazeia, D. et al., 2004k:83101**
Navarro, Ignacio Spheres, deficit angles and the cosmological constant. (English summary) **2004g:83107**
Naylor, Wade *see* **Moss, Ian G. et al.**
Nemeschansky, Dennis *see* **Bagger, Jonathan A. et al., 2004a:83054**
Nesterov, D. V. *see* **Barvinskiĭ, A. O., 2004i:83099**
Neupane, Ishwaree P. *see* **Cho, Yong Min, 2004d:83070** *and* **Chen, Chiang-Mei et al., 2004h:83070**
Neves, Rui Gomes Mendonça (*with* Vaz, Cenalo) Brane dynamics, the polytropic gas and conformal bulk fields. (English summary) **2004g:83108**
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Odintsov, Sergei D. Brane new world and dS/CFT correspondence. (English and Russian summaries) **2004j:83112**
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— Holographic entropy on the brane in Schwarzschild-de Sitter space. (English and Russian summaries) **2004j:83113**
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Olasagasti, I. (*with* Tamvakis, K.) Gravity in higher codimension de Sitter brane worlds. (English summary) **2004j:83114**
Olechowski, Marek *see* **Meissner, Krzysztof A., 2004h:83074**
Olive, Keith A. *see* **Kanti, Panagiota et al., 2004b:83117**
Onemli, Vakif K. (*with* Tekin, Bayram) Kaluza-Klein monopole in AdS spacetime. (English summary) **2004j:83115**
Ott, Tassilo *see* **Blumenhagen, Ralph et al., 2004g:83087**
Oz, Yaron *see* **Gherghetta, Tony, 2004b:83113**
Padilla, Antonio *see* **Gregory, James P., 2004i:83106**
Pal, Shesansu Sekhar *see* **Biswas, Anindya et al.**
Pallua, S. *see* **Cvitan, M. et al., 2004k:83104**
Panigrahi, D. *see* **Chatterjee, Sujit et al., 2004d:83069**
Pantoja, Nelson *see* **Melfo, Alejandra et al.**
Papantonopoulos, Eleftherios *see* **Kofinas, Georgios et al., 2004j:83106**
Papazoglou, Antonios *see* **Nilles, Hans Peter et al.**
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Parry, M. F. *see* **Steer, Danièle A., 2004a:83065**
Patil, K. D. Structure of radial null geodesics in higher dimensional dust collapse. (English summary) **2004c:83109**
Penrose, Roger On the instability of extra space dimensions.
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Pietroni, Massimo Brane worlds and the cosmic coincidence problem. (English summary)
Pioline, Boris *see* **Gutperle, Michael, 2004j:83100**
Plyushchaĭ, M. S. *see* **Leiva, Carlos, 2004k:83116**
Ponce de Leon, J. Equations of motion in Kaluza-Klein gravity reexamined. (English and Russian summaries) **2004b:83121**
— Brane universes with variable G and $\Lambda_{(4)}$. (English summary) **2004m:83080**
— Invariant definition of rest mass and dynamics of particles in 4D from bulk geodesics in brane-world and non-compact Kaluza-Klein theories. (English summary) **2004e:83080**
— FLRW universes from "wave-like" cosmologies in 5D. (English summary) **2004e:83081**
— Brane-world models emerging from collisions of plane waves in 5D. (English summary) **2004k:83121**
Pons, Josep M. (*with* Talavera, Pere) Consistent and inconsistent truncations. Some results and the issue of the correct uplifting of solutions. (English summary) **2004k:83122**
Poppitz, Erich Deconstructing KK monopoles. (English summary) **2004h:83075**
Porrati, Massimo *see* **Kolanović, Marko et al., 2004j:83107**
Pospelov, Maxim *see* **Hofmann, Ralf, 2004c:83098**
Prester, P. *see* **Cvitan, M. et al., 2004k:83104**
Pujolàs, Oriol Quantum stabilization of moduli in a slice of AdS_6 compactified on S^1. (English summary) **2004i:83114**
— *see also* **Garriga, Jaume et al., 2004b:83112** *and* **Flachi, Antonino, 2004j:83097**
Rabadán, Raúl (*with* Shiu, Gary) (Re)constructing dimensions. (English summary) **2004e:83082**
Randjbar-Daemi, Seif (*with* Shaposhnikov, Mikhail) A formalism to analyze the spectrum of brane world scenarios. (English summary) **2004h:83076**
Rangamani, Mukund *see* **Hubeny, Veronika E., 2004b:83115**
Rathke, Andreas *see* **Barvinskiĭ, A. O. et al., 2004c:83091** *and* **2004i:83098**
Rebouças, M. J. (*with* Santos, Janilo) A note on Segre types of second-order symmetric tensors in 5-D brane-world cosmology. (English summary) **2004j:83116**
Redi, Michele *see* **Lewandowski, Adam, 2004k:83117**
Ren, Hai-Cang *see* **Giannakis, Ioannis et al., 2004e:83072**
Rendall, Alan D. *see* **Damour, Thibault et al., 2004g:83092**
Rhodes, C. S. *see* **Brax, Philippe et al., 2004d:83065**
Rinaldi, Massimiliano Brane-worlds in T-dual bulks. (English summary) **2004k:83123**
Rizzo, Thomas Gerard *see* **Davoudiasl, Hooman et al., 2004g:83093** *and* **2004h:83071**
Rodríguez, Eduardo *see* **Salgado, Patricio et al., 2004k:83125**
Rodríguez-Martínez, María *see* **Brax, Philippe et al., 2004i:83100**
Rombouts, Jan-Willem *see* **Kolanović, Marko et al., 2004j:83107**
Romero, Carlos Augusto *see* **Dahia, F., 2004j:83096**
Rummukainen, Kari *see* **Laine, Mikko et al., 2004b:83118**
Saal, Margus *see* **Kuusk, Piret, 2004k:83114**
Saaryan, A. A. (*with* Setare, Mohammad R.) Casimir energy-momentum tensor for a brane in de Sitter spacetime. (English summary) **2004k:83124**
Sabra, Wafic A. Curved branes in AdS Einstein-Maxwell gravity and Killing spinors. (English summary) **2004d:83077**
Sahni, Varun (*with* Shtanov, Yu. V.) New vistas in braneworld cosmology. (English summary) **2004a:83064**
Sakagami, Masa-aki *see* **Kurita, Yasunari, 2004k:83113**
Salgado, Patricio (*with* Izaurieta, F.; Rodriguez, Eduardo) Higher-dimensional gravity invariant under the AdS group. (English summary) **2004k:83125**
Santiago-Germán, Wenceslao *see* **Moss, Ian G. et al.**
Santos, Caroline *see* **Gregory, Ruth, 2004c:83097**
Santos, Janilo *see* **Rebouças, M. J., 2004j:83116**
Santos, Paulo Alexandre *see* **Loup, Fernando et al., 2004i:83112**
Sasaki, Misao *see* **Kanno, Sugumi et al., 2004c:83100**; **Himemoto, Yoshiaki, 2004j:83102**; **Langlois, David, 2004k:83115** *and* **Moss, Ian G. et al.**
Savchenko, N. Yu. (*with* Toporensky, A. V.) Scaling solutions on a brane. (English summary) **2004f:83075**
Scardigli, Fabio (*with* Casadio, Roberto) Generalized uncertainty principle, extra dimensions and holography. (English summary) **2004j:83117**
van der Schaar, Jan Pieter *see* **Freese, Katherine et al., 2004g:83095**
Schwartz, Matthew D. Constructing gravitational dimensions. (English summary) **2004k:83126**
Searight, T. P. On degenerate metrics and electromagnetism. (English summary) **2004i:83115**
Sefusatti, Emiliano *see* **Dvali, Gia et al., 2004b:83110**
Selivanov, A. B. *see* **Ivashchuk, Vladimir D. et al., 2004j:83104** *and* **2004j:83105**
Selivanov, Konstantin G. (*with* Tomaras, Theodore N.) Brane-induced decay of the Kaluza-Klein vacuum. (English summary) **2004c:83110**
— *see also* **Gorskiĭ, A. S., 2004g:83099**
Sen, Anjan Ananda *see* **Bento, M. C. et al., 2004b:83107**
Şentürk, Ç. *see* **Gürses, Metin et al., 2004m:83075**
Setare, Mohammad R. (*with* Mansouri, R.) Holographic thermodynamics on the brane in topological Reissner-Nordström de Sitter space. (English summary)
— *see also* **Saaryan, A. A., 2004k:83124**
Shao, Jianbing *see* **Yang, Xuejun et al., 2004k:83131**
Shaposhnikov, Mikhail *see* **Laine, Mikko et al., 2004b:83118** *and* **Randjbar-Daemi, Seif, 2004h:83076**
Shifman, M. *see* **Dvali, Gia et al., 2004c:83094**
Shiromizu, Tetsuya (*with* Koyama, Kazuya; Takahashi, Keitaro) Effective theory for close limit of two branes. (English summary)
— *see also* **Hayakawa, Shoko et al., 2004k:83110**
Shiu, Gary Tachyon dynamics and brane cosmology. (English summary) (*see* **2004d:81001**)
— *see also* **Rabadán, Raúl, 2004e:83082**
Shtanov, Yu. V. *see* **Sahni, Varun, 2004a:83064** *and* **Fomin, P. I., 2004e:83071**
da Silva Santos, Dorabella Martins *see* **Loup, Fernando et al., 2004i:83112**
Singh, Parampreet (*with* Dadhich, Naresh) Localization of gravity in brane world cosmologies. (English summary) **2004d:83078**
Skenderis, Kostas Asymptotically anti-de Sitter spacetimes and their stress energy tensor. (English summary) **2004g:83110**
— *see also* **Solodukhin, S. N. et al., 2004f:83076**
Skirzewski, Aureliano *see* **Melfo, Alejandra et al.**
Soda, Jiro (*with* Koyama, Kazuya) Cosmological perturbations in the brane world. (English summary) **2004k:83127**
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Solodukhin, S. N. (*with* de Haro, Sebastian; Skenderis, Kostas) Gravity in warped compactifications and the holographic stress tensor. (English summary) **2004f:83076**
— *see also* **Barvinskiĭ, A. O.**
Sopuerta, Carlos F. *see* **Barceló, Carlos et al., 2004g:83085**; **Leeper, Emily et al.** *and* **Campos, Antonio et al.**
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Stelle, Kellogg S. RS braneworlds in type IIB supergravity. (English summary) **2004f:83077**
Stoica, Horace *see* **Jones, Nicholas T. et al., 2004b:83116**
Stojković, Dejan Nontopological solitons in brane world models. (English summary) **2004b:83122**
Sundrum, Raman *see* **Lewandowski, Adam et al., 2004b:83119**
Takahashi, Keitaro *see* **Shiromizu, Tetsuya et al.** *and* **Koyama, Kazuya**
Talavera, Pere *see* **Pons, Josep M., 2004k:83122**
Tamaryan, S. *see* **Park, DaeKil et al., 2004c:83108** *and* **2004m:83079**
Tamvakis, K. *see* **Olasagasti, I., 2004j:83114**
Tan, Chung-I *see* **Brower, Richard C. et al., 2004d:83067**

Tanaka, Takahiro Effective gravity in Randall-Sundrum infinite brane world. (English summary) **2004a:83066**
— Classical black hole evaporation in Randall-Sundrum infinite braneworld. (English summary) **2004k:83128**
— *see also* **Garriga, Jaume et al., 2004b:83112**; **Kudoh, Hideaki et al., 2004c:83102**; **Gen, Uchida et al., 2004k:83106** *and* **Hayakawa, Shoko et al., 2004k:83110**
Tasinato, Gianmassimo *see* **Nilles, Hans Peter et al.**
Tavakol, Reza *see* **Anderson, Edward, 2004j:83092**
Tchrakian, Tigran D. H. *see* **Brihaye, Yves et al., 2004d:83066** *and* **2004g:83089**
Tekin, Bayram *see* **Onemli, Vakif K., 2004j:83115**
Tetradis, Nikolaos *see* **Kiritsis, Elias et al., 2004c:83101**
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— *see also* **Ladke, L. S. et al.**
Tintareanu-Mircea, Ovidiu *see* **Vacaru, Sergiu I., 2004c:83111**
Toharia, Manuel The radion and the perturbative metric in RS1. (English summary)
Tomaras, Theodore N. *see* **Kiritsis, Elias et al., 2004c:83101** *and* **Selivanov, Konstantin G., 2004c:83110**
Toporensky, A. V. *see* **Savchenko, N. Yu., 2004f:83075**
Torii, Takashi[1] *see* **Maeda, Kei-ichi et al.**
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Turzyński, Krzysztof *see* **Kowalska, Kamila**
Tye, S.-H. Henry *see* **Jones, Nicholas T. et al., 2004b:83116**
Uzawa, Kunihito (*with* Maeda, Kei-ichi) Dilaton dynamics in (A)dS$_5 \times$ S^5. (English summary) **2004k:83129**
— Dilaton stabilization in (A)dS spacetime with compactified dimensions. (English summary) **2004j:83118**
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Valcárcel, Luis *see* **Cline, James M.**
Vargas Moniz, P. *see* **Günther, Uwe et al.**
Vaz, Cenalo *see* **Neves, Rui Gomes Mendonça, 2004g:83108**
Vázquez-Poritz, J. F. Phases of braneworlds and spinning D3-branes. (English summary) **2004f:83078**
Vilja, Iiro *see* **Multamäki, Tuomas, 2004c:83107**
Vinet, Jérémie *see* **Cline, James M. et al., 2004f:83068**
Viniegra, Fermín *see* **Barceló, Carlos et al., 2004g:83085**
Visser, Matt (*with* Wiltshire, David L.) On-brane data for braneworld stars. (English summary) **2004g:83111**
Viswanathan, Kadayam Sankaran *see* **Aref'eva, Irina Ya. et al., 2004g:83084**
Volovich, Igor V. *see* **Aref'eva, Irina Ya. et al., 2004g:83084**
Wang, John E. *see* **Chen, Chiang-Mei et al., 2004h:83070**
Wang, Yong Cheng[2] *see* **Wei, Yi Huan, 2004f:83079**
Watts, David G. Derivation of magnetized-wire metrics in 5-dimensional general relativity. (English summary) **2004i:83116**
Weaver, Marsha *see* **Damour, Thibault et al., 2004g:83092**
Wei, Yi Huan (*with* Wang, Yong Cheng[2]) New class of five-dimensional axisymmetric spacetime solutions with arbitrary signature. (English summary) **2004f:83079**
Wesson, Paul S. Mass, particles and waves in higher dimensions. (English summary) **2004k:83130**
Wiltshire, David L. *see* **Visser, Matt, 2004g:83111**
Wiseman, Toby Static axisymmetric vacuum solutions and non-uniform black strings. (English summary) **2004e:83083**
Wohlfarth, Mattias N. R. *see* **Townsend, Paul Kingsley, 2004h:83077**
Wu, Zhong Chao Dimensionality in the Freund-Rubin cosmology. (English summary) **2004m:83081**
Yahiro, Masanobu *see* **Ghoroku, Kazuo et al., 2004g:83097** *and* **2004j:83099**
Yamamoto, Kohta *see* **Mizuno, Shuntaro et al., 2004c:83104**
Yang, Xuejun (*with* Ma, Yongge; Shao, Jianbing; Zhou, Wei[2]) Killing reduction of 5-dimensional spacetimes. (English summary) **2004k:83131**
Zade, V. T. *see* **Ladke, L. S. et al.**
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Zandron, O. S. Second-order five-dimensional Chern-Simons gravity. (English summary) **2004j:83119**
Zarikas, Vasilios *see* **Kiritsis, Elias et al., 2004c:83101**
Zerbini, Sergio *see* **Cognola, Guido et al., 2004m:83072**
Zhang, Ren-Jie *see* **Bagger, Jonathan A. et al., 2004a:83054**
Zhang, Yuan Zhong *see* **Chatterjee, Sujit et al., 2004d:83069**
Zhou, Wei[2] *see* **Yang, Xuejun et al., 2004k:83131**
Zhuk, A. I. *see* **Bouhmadi, Marian et al., 2004d:83064**; **2004g:83088** *and* **Günther, Uwe et al.**

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Aghababaie, Yashar (*with* Burgess, Clifford P.; Cline, James M.; Firouzjahi, Hassan; Parameswaran, Susha L.; Quevedo, Fernando; Tasinato, Gianmassimo; Zavala C., Ivonne) Warped brane worlds in six dimensional supergravity. (English summary)
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Aguirregabiria, Juan M. (*with* Lazkoz Saez, R.) Anisotropic brane cosmologies with exponential potentials. (English summary) **2004m:83109**
Ahmadi, Fatemeh *see* **Jalalzadeh, Shahram et al., 2004h:83034**
Alonso-Alberca, Natxo (*with* Lozano-Tellechea, Ernesto; Ortín, Tomás) The near-horizon limit of the extreme rotating $d = 5$ black hole as a homogeneous spacetime. (English summary) **2004b:83137**
Álvarez, Enrique (*with* Conde, Jorge; Hernández, Lorenzo) Codimension-two holography. (English summary) **2004e:83085**
Anisimov, Alexey (*with* Dine, Michael; Graesser, Michael; Thomas, Scott) Brane world SUSY breaking from string/M-theory. (English summary) **2004c:81185**
Anselmi, Damiano Inequalities for trace anomalies, length of the RG flow, distance between the fixed points and irreversibility. (English summary) **2004j:81111**
Antunes, Nuno D. (*with* Copeland, Edmund J.; Hindmarsh, Mark; Lukas, André) Kinky brane worlds. (English summary) **2004k:83133**
Arık, Metin (*with* Çiftci, Dilek) A Finslerian cosmological metric and its Riemannian Kaluza-Klein extension. (English and Russian summaries)
Arkani-Hamed, Nima (*with* Cheng, Hsin-Chia; Creminelli, Paolo; Randall, Lisa) Pseudonatural inflation. (English summary) **2004g:83146**
Beil, R. G. Finsler geometry and relativistic field theory. (English summary) **2004i:53020**
Berti, Emanuele (*with* Kokkotas, Kostas D.; Papantonopoulos, Eleftherios) Stability of five-dimensional rotating black holes projected on the brane. (English summary)
Bertrand, Bruno *see* **Hartmann, Betti et al., 2004h:81160**
Bhanja, Sisir *see* **De, Archan Kumar et al., 2004h:83061**
Bietenholz, Wolfgang (*with* Gfeller, Adrian; Wiese, Uwe-Jens) Dimensional reduction of fermions in brane worlds of the Gross-Neveu model. (English summary)
Brandenberger, Robert (*with* Geshnizjani, G.; Watson, Gary Scott) Initial conditions for brane inflation. (English summary) **2004i:83149**
Brihaye, Yves *see* **Hartmann, Betti et al., 2004h:81160**
Burgess, Clifford P. Brane-antibrane inflation. (English summary) **2004k:83166**
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Campos, Antonio Late-time dynamics of brane gas cosmology. (English summary)
Cantcheff, M. Botta General relativity as a (constrained) Yang-Mills theory and a novel gravity with torsion. (English summary) **2004c:83082**
Cardoso, Vitor (*with* Lemos, José P. S.; Yoshida, Shijun) Scalar-gravitational perturbations and quasinormal modes in the five dimensional Schwarzschild black hole. (English summary) **2004k:83063**
Castro, Carlos[1] AdS$_{2n}$ spaces from SO$(2n - 1, 2)$ instantons. (English summary) **2004m:81182**
Chakraborty, Subenoy *see* **De, Archan Kumar et al., 2004h:83061**
Chen, Chi-yi *see* **Shen, You-Gen et al., 2004b:83074**
Cheng, Hsin-Chia *see* **Arkani-Hamed, Nima et al., 2004g:83146**
Cho, Chung Hyun *see* **Kim, Mi Ae et al., 2004a:83052**; **2004b:83100** *and* **2004b:83101**
Choi, Kiwoon (*with* Kim, Ian-Woo) One loop gauge couplings in AdS$_5$. (English summary) **2004c:81323**
Chung, Kyung Tae *see* **Kim, Mi Ae et al., 2004a:83052**; **2004b:83100** *and* **2004b:83101**
Ciesielski, Rafał (*with* Lalak, Zygmunt) Racetrack models in theories from extra dimensions. (English summary) **2004a:83071**
Çiftci, Dilek *see* **Arık, Metin**
Clément, Gérard (*with* Gal'tsov, D. V.; Leygnac, Cédric) Linear dilaton black holes. (English summary) **2004a:83036**
Cline, James M. *see* **Aghababaie, Yashar et al.**
Coley, Alan A. Brane-world cosmology. (English summary) **2004f:83100**
— (*with* Hervik, Sigbjørn) Braneworld singularities. (English summary) **2004f:83047**
Conde, Jorge *see* **Álvarez, Enrique et al., 2004e:83085**
Copeland, Edmund J. *see* **Antunes, Nuno D. et al., 2004k:83133**
Crâşmăreanu, Mircea Finslerian fibre bundles: a first step to a Finslerian Kaluza-Klein theory. (English summary)
Creminelli, Paolo *see* **Arkani-Hamed, Nima et al., 2004g:83146**
Dahia, F. (*with* Romero, Carlos Augusto) The embedding of the space-time in five dimensions: an extension of the Campbell-Magaard theorem. (English summary) **2004a:53090**
Damour, Thibault String cosmology and chaos. (English summary) **2004m:83089**
Das, Anadijiban (*with* Kloster, S.) Compactification of two dimensions in general relativity. (English summary) **2004e:83054**
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DeBenedictis, A. (*with* Das, Anadijiban) Higher dimensional wormhole geometries with compact dimensions. (English summary) **2004h:83068**
Deffayet, Cédric Cosmology of brane-induced gravity models. (English summary) **2004a:83088**
Dehnen, Heinz *see* **Vacaru, Sergiu I., 2004d:83060**
Deser, Stanley (*with* Tekin, Bayram) Shortcuts to high symmetry solutions in gravitational theories. (English summary) **2004i:83029**
Deshkar, D. W. *see* **Ghosh, S. G.**
Dimopoulos, Konstantinos Curvaton hypothesis and the η problem of quintessential inflation, with and without branes. (English summary)
Dine, Michael *see* **Anisimov, Alexey et al., 2004c:81185**
Dominici, Daniele (*with* Grzadkowski, Bohdan; Gunion, John F.; Toharia, Manuel) The scalar sector of the Randall-Sundrum model. (English summary) **2004i:81271**
Dubovskiĭ, S. L. (*with* Libanov, M. V.) On brane-induced gravity in warped backgrounds. (English summary)
Duff, Michael J. (*with* Liu, James T.; Sati, Hisham) Complementarity of the Maldacena and Karch-Randall pictures. (English summary) **2004h:83080**
Edelen, Dominic G. B. Gauge constructs and immersions of four-dimensional spacetimes in $(4 + k)$-dimensional flat spaces: algebraic evaluation of gravity fields. (English summary) **2004i:53105**
Elvang, Henriette (*with* Emparan, Roberto) Black rings, supertubes, and a stringy

resolution of black hole non-uniqueness. (English summary) **2004k:83140**

Emparan, Roberto *see* **Elvang, Henriette, 2004k:83140**

Eto, Minoru (*with* Maru, Nobuhito; Sakai, Norisuke) Stability and fluctuations on walls in $\mathcal{N} = 1$ supergravity. (English summary) **2004i:83138**

Ferrara, Sergio (*with* Porrati, Massimo) Observations on the holographic duals of 4-d extremal black holes. (English summary) **2004c:83057**

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Firouzjahi, Hassan (*with* Tye, S.-H. Henry) Closer towards inflation in string theory. (English summary) **2004k:83143**

Firouzjahi, Hassan *see* **Aghababaie, Yashar et al.**

Frolov, Valery P. (*with* Sutton, P.; Zel'nikov, A. I.) Dimensional reduction anomalies. (English summary) **2004g:81164**

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Fujisaki, Haruo (*with* Sekiwa, Y.) Microcanonical algorithm of charged rotating dilatonic black holes from the viewpoint of the Kaluza-Klein theory. (English summary) **2004j:83063**

Fursaev, D. V. Black hole thermodynamics, induced gravity and gravity in brane worlds. (English summary) **2004g:83050**

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Gao, Chang-Jun *see* **Shen, You-Gen et al., 2004b:83074**

Geshnizjani, G. *see* **Brandenberger, Robert et al., 2004i:83149**

Gfeller, Adrian *see* **Bietenholz, Wolfgang et al.**

Gherghetta, Tony (*with* Kehagias, Alex) Anomaly cancellation in seven-dimensional supergravity with a boundary. (English summary) **2004k:83158**

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Ghosh, S. G. (*with* Deshkar, D. W.) Gravitational collapse of a radiating star in higher dimensions. (English and Russian summaries) **Graesser, Michael** *see* **Anisimov, Alexey et al., 2004c:81185**

Groot Nibbelink, Stefan Traces on orbifolds: anomalies and one-loop amplitudes. (English summary) **2004h:81224**

Grzadkowski, Bohdan *see* **Dominici, Daniele et al., 2004i:81271**

Gubser, Steven S. Anti de Sitter black holes and their uses. (English summary) **2004b:83064**

Gunion, John F. *see* **Dominici, Daniele et al., 2004i:81271**

Güven, R. (*with* Liu, James T.; Pope, C. N.; Sezgin, E.) Fine tuning and six-dimensional gauged $N = (1, 0)$ supergravity vacua. (English summary) **2004m:83105**

Hartmann, Betti (*with* Brihaye, Yves; Bertrand, Bruno) Spherically symmetric Yang-Mills solutions in a 5-dimensional (anti-) de Sitter space-time. (English summary) **2004h:81160**

Hassaïne, Mokhtar Supersymmetric Chaplygin gas. (English summary) **2004m:83042**

Hawkins, Rachael M. (*with* Lidsey, James E.) Inflationary energy scale in braneworld cosmology. (English summary)

Hebecker, Arthur (*with* Wetterich, Christof) Spinor gravity. (English summary) **2004k:83079**

Hernández, Lorenzo *see* **Álvarez, Enrique et al., 2004e:83085**

Hervik, Sigbjorn Vacuum plane waves in $4 + 1$ D and exact solutions to Einstein's equations in $3 + 1$ D. (English summary) **2004h:83015**

— *see also* **Coley, Alan A., 2004f:83047**

Hindmarsh, Mark *see* **Antunes, Nuno D. et al., 2004k:83133**

Hong, Soon-Tae $SO(3, 2)/Sp(2)$ symmetries in BTZ black holes. (English summary) **2004k:83068**

Hosotani, Yutaka Weyl invariant spacetime. (English summary) **2004c:83125**

Huber, Stephan J. (*with* Shafi, Qaisar) Cosmological constant, gauge hierarchy, and warped geometry. (English summary)

Ida, Daisuke (*with* Uchida, Yuki; Morisawa, Yoshiyuki) Scalar perturbation of the higher-dimensional rotating black holes. (English summary) **2004f:83041**

Jalalzadeh, Shahram (*with* Ahmadi, Fatemeh; Sepangi, Hamid Reza) Multi-dimensional classical and quantum cosmology: exact solutions, signature transition and stabilization. (English summary) **2004h:83034**

(Kaluza, Theodor Franz Eduard) *see* **Wuensch, Daniela, 2004k:83001**

Kan, Nahomi (*with* Shiraishi, Kiyoshi) Multi-graviton theory, a latticized dimension and the cosmological constant. (English summary) **2004i:83055**

Kanti, Panagiota (*with* March-Russell, John) Calculable corrections to brane black hole decay. II. Greybody factors for spin 1/2 and 1. (English summary) **2004g:83056**

Kar, Sayan (*with* Sinha, Manodeep) Bending of light and gravitational signals in certain on-brane and bulk geometries. (English summary)

Kaste, Peter (*with* Minasian, Ruben; Petrini, Michela; Tomasiello, Alessandro) Kaluza-Klein bundles and manifolds of exceptional holonomy. (English summary) **2004b:83132**

Kehagias, Alex *see* **Gherghetta, Tony, 2004c:83121** *and* **2004k:83158**

Keurentjes, Arjan The group theory of oxidation. (English summary) **2004k:83147a**

— The group theory of oxidation. II. Cosets on non-split groups. (English summary) **2004k:83147b**

Khanna, F. C. *see* **de Montigny, M. et al., 2004h:81117**

Kim, Ian-Woo *see* **Choi, Kiwoon, 2004c:81323**

Kim, Mi Ae (*with* So, Keum Sook; Cho, Chung Hyun; Chung, Kyung Tae) Seven-dimensional considerations of Einstein's connection. I. The recurrence relations of the first kind in n-g-UFT. (English summary) **2004a:83052**

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— (*with* So, Keum Sook; Cho, Chung Hyun; Chung, Kyung Tae) Seven-dimensional considerations of Einstein's connection. III. The seven-dimensional Einstein's connection. (English summary) **2004b:83101**

Klein, Matthias *see* **Burgess, Clifford P. et al., 2004j:83123**

Kloster, S. *see* **Das, Anadijiban, 2004e:83054**

Kobayashi, Tatsuo *see* **Abe, Hiroyuki et al., 2004c:81176**

Kokkotas, Kostas D. *see* **Berti, Emanuele et al.**

Koyama, Kazuya *see* **Shiromizu, Tetsuya et al.**

Kudoh, Hideaki Thermodynamic properties of small localized black holes. (English summary) **2004j:83067**

Lalak, Zygmunt (*with* Matyszkiewicz, Radosław) Warped brane world supergravity, flipping, and the Scherk-Schwarz mechanism. (English summary) **2004g:83142**

— (*with* Matyszkiewicz, Radosław) Twisted supergravity and untwisted superbigravity. (English summary) **2004e:83117**

— *see also* **Ciesielski, Rafał, 2004a:83071**

Lazkoz Saez, R. *see* **Aguirregabiria, Juan M., 2004m:83109**

Leblond, Frédéric (*with* Myers, Robert C.; Marolf, Donald) Tall tales from de Sitter space. II. Field theory dualities. (English summary) **2004d:81071**

Lehners, Jean-Luc (*with* Stelle, Kellogg S.) $D = 5$ M-theory radion supermultiplet dynamics. (English summary) **2004e:83105**

Lemos, José P. S. *see* **Cardoso, Vitor et al., 2004k:83063**

Leonhardt, Thorsten (*with* Manvelyan, Ruben; Rühl, Werner) The group approach to AdS space propagators. (English summary) **2004i:81218**

Leygnac, Cédric *see* **Clément, Gérard et al., 2004a:83036**

Libanov, M. V. *see* **Dubovskiĭ, S. L.**

Lidsey, James E. (*with* Nunes, N. J.) Inflation in Gauss-Bonnet brane cosmology. (English summary)

— *see also* **Hawkins, Rachael M.**

Linde, Andrei Inflationary theory versus the ekpyrotic/cyclic scenario.

Liu, James T. *see* **Duff, Michael J. et al., 2004h:83080** *and* **Güven, R. et al., 2004m:83105**

Lozano-Tellechea, Ernesto *see* **Alonso-Alberca, Natxo et al., 2004b:83137**

Lü, Hong[1] New G_2 metric, D6-branes and lattice universe. (English summary) **2004b:53069**

Lukas, André Moving five-branes and cosmology. (English summary) (*see* **2004d:81001**)

— *see also* **Antunes, Nuno D. et al., 2004k:83133**

Mac Conamhna, Oisín A. P. Massive bosons and the dS/CFT correspondence. (English summary) **2004f:81161**

Maeda, Kei-ichi *see* **Okuyama, Naoya, 2004g:83064**; **Brane world: new perspective in cosmology** *and* **Mizuno, Shuntaro**

Manvelyan, Ruben *see* **Leonhardt, Thorsten et al., 2004i:81218**

March-Russell, John *see* **Kanti, Panagiota, 2004g:83056**

Marolf, Donald *see* **Leblond, Frédéric et al., 2004d:81071**

Maru, Nobuhito *see* **Abe, Hiroyuki et al., 2004c:81176** *and* **Eto, Minoru et al., 2004i:83138**

Matsuda, Tomohiro Incidental brane defects. (English summary) **2004j:83131**

Matyszkiewicz, Radosław *see* **Lalak, Zygmunt, 2004e:83117** *and* **2004g:83142**

Minasian, Ruben *see* **Kaste, Peter et al., 2004b:83132**

Mizuno, Shuntaro (*with* Maeda, Kei-ichi) Natural quintessence scenario in a brane world. (English summary)

Molina Mendes, Carlos Quasinormal modes of d-dimensional spherical black holes with a near extreme cosmological constant. (English summary)

Mongan, T. R. Hierarchy and wave functions in a simple quantum cosmology. (English summary) **2004f:83025**

de Montigny, M. (*with* Khanna, F. C.; Santana, Ademir E.) Nonrelativistic wave equations with gauge fields. (English summary) **2004h:81117**

Morisawa, Yoshiyuki *see* **Ida, Daisuke et al., 2004f:83041**

Mosquera Cuesta, Herman J. (*with* Penna-Firme, André; Pérez-Lorenzana, Abdel) Charge asymmetry in the brane world and the formation of charged black holes. (English summary) **2004e:83040**

Myers, Robert C. *see* **Leblond, Frédéric et al., 2004d:81071**

Myung, Yun Soo Logarithmic corrections to the Bekenstein-Hawking entropy for five-dimensional black holes and de Sitter spaces. (English summary)

— Relationship between five-dimensional black holes and de Sitter spaces. (English summary) **2004j:83069**

Naka, Shigefumi (*with* Toyoda, Haruki) 5-dimensional spacetime with q-deformed extra dimension. (English summary) **2004b:83081**

Narita, Makoto On the existence of global solutions for T^3-Gowdy spacetimes with stringy matter. (English summary) **2004e:83005**

Nicolai, Hermann (*with* Samtleben, Henning) Kaluza-Klein supergravity on $AdS_3 \times S^3$. (English summary) **2004i:83142**

Nojiri, Shin'ichi (*with* Odintsov, Sergei D.; Ogushi, Sachiko) Logarithmic corrections to the FRW brane cosmology from 5d Schwarzschild-de Sitter black hole. (English summary) **2004f:83043**

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Nouri-Zonoz, Mohammad (*with* Tavanfar, Ali Reza) Gauged motion in general relativity and in Kaluza-Klein theories. (English summary) **2004c:83032**

Nunes, N. J. *see* **Lidsey, James E.**

Núñez, Carlos *see* **Burgess, Clifford P. et al., 2004h:83096**

Odintsov, Sergei D. *see* **Nojiri, Shin'ichi et al., 2004d:83043** *and* **2004f:83043**

Ogushi, Sachiko *see* **Nojiri, Shin'ichi et al., 2004f:83043**

Okuyama, Naoya (*with* Maeda, Kei-ichi) Five-dimensional black hole and particle solution with a non-abelian gauge field. (English summary) **2004g:83064**

Ortín, Tomás *see* **Alonso-Alberca, Natxo et al., 2004b:83137**

Padilla, Antonio Surface terms and the Gauss-Bonnet Hamiltonian. (English summary) **2004h:83009**

Papantonopoulos, Eleftherios *see* **Berti, Emanuele et al.**

Parameswaran, Susha L. *see* **Aghababaie, Yashar et al.**

Park, DaeKil Newton law in brane-world scenario with 4d induced gravity: singular quantum mechanical approach. (English summary) **2004f:81256**

Penna-Firme, André *see* **Mosquera Cuesta, Herman J. et al., 2004e:83040**
Pérez-Lorenzana, Abdel *see* **Mosquera Cuesta, Herman J. et al., 2004e:83040**
Pérez-Victoria, Manuel *see* **del Aguila, Francisco et al., 2004c:81317**
Petrini, Michela *see* **Kaste, Peter et al., 2004b:83132**
Ponce de Leon, J. *see* **Seahra, Sanjeev S. et al., 2004k:83051**
Pope, C. N. 57 varieties in a NUTshell.
— *see also* **Güven, R. et al., 2004m:83105**
Porrati, Massimo *see* **Ferrara, Sergio, 2004c:83057**
Quevedo, Fernando *see* **Burgess, Clifford P. et al., 2004h:83096**; **2004j:83123** *and* **Aghababaie, Yashar et al.**
Randall, Lisa (*with* Shadmi, Yael; Weiner, Neal) Deconstruction and gauge theories in AdS_5. (English summary) **2004e:81096**
— *see also* **Arkani-Hamed, Nima et al., 2004g:83146**
Rogatko, Marek Uniqueness theorem of static degenerate and nondegenerate charged black holes in higher dimensions. (English summary) **2004g:83024**
Romero, Carlos Augusto *see* **Dahia, F., 2004a:53090**
Rühl, Werner *see* **Leonhardt, Thorsten et al., 2004i:81218**
Saaryan, A. A. (*with* Setare, Mohammad R.) The Casimir effect on background of conformally flat brane-world geometries. (English summary) **2004b:81132**
Sakai, Norisuke *see* **Eto, Minoru et al., 2004i:83138**
Samtleben, Henning *see* **Nicolai, Hermann, 2004i:83142**
Santana, Ademir E. *see* **de Montigny, M. et al., 2004h:81117**
Santiago, José *see* **del Aguila, Francisco et al., 2004c:81317**
(Sasaki, Misao) *see* **Brane world: new perspective in cosmology**
Sati, Hisham *see* **Duff, Michael J. et al., 2004h:83080**
van der Schaar, Jan Pieter Inflationary perturbations from deformed CFT. (English summary) **2004m:83117**
Seahra, Sanjeev S. (*with* Wesson, Paul S.) Application of the Campbell-Magaard theorem to higher-dimensional physics. (English summary) **2004c:53127**
— (*with* Sepangi, Hamid Reza; Ponce de Leon, J.) Brane classical and quantum cosmology from an effective action. (English summary) **2004k:83051**
Sekiwa, Y. *see* **Fujisaki, Haruo, 2004j:83063**
Sepangi, Hamid Reza *see* **Jalalzadeh, Shahram et al., 2004h:83034** *and* **Seahra, Sanjeev S. et al., 2004k:83051**
Setare, Mohammad R. *see* **Saaryan, A. A., 2004b:81132**
Sezgin, E. *see* **Güven, R. et al., 2004m:83105**
Shadmi, Yael *see* **Randall, Lisa et al., 2004e:81096**
Shafi, Qaisar *see* **Huber, Stephan J.**
Shen, You-Gen (*with* Gao, Chang-Jun; Chen, Chi-yi) Quantum statistical entropy of six dimensional Horowitz-Strominger black holes. (English summary) **2004b:83074**
Shiraishi, Kiyoshi *see* **Kan, Nahomi, 2004i:83055**
Shiromizu, Tetsuya (*with* Torii, Takashi[1]; Uesugi, Tomoko) D-braneworld cosmology. (English summary)
— (*with* Koyama, Kazuya; Torii, Takashi[1]) Cosmological constant and gravitational theory on a D-brane. (English summary)
Shiu, Gary (*with* Tye, S.-H. Henry; Wasserman, Ira) Rolling tachyon in brane world cosmology from superstring field theory. (English summary) **2004g:83130**
Simón, Joan *see* **Figueroa-O'Farrill, José**
Sinha, Manodeep *see* **Kar, Sayan**
So, Keum Sook *see* **Kim, Mi Ae et al., 2004a:83052**; **2004b:83100** *and* **2004b:83101**
Stelle, Kellogg S. *see* **Lehners, Jean-Luc, 2004e:83105**
Stojković, Dejan *see* **Frolov, Valery P., 2004f:83038** *and* **2004k:83013**
Surya, S. *see* **Galloway, Gregory J. et al., 2004i:83030**
Sutton, P. *see* **Frolov, Valery P. et al., 2004g:81164**
Tan, H. S. (*with* Teo, Edward) Multi-black-hole solutions in five dimensions. (English summary) **2004k:83074**
Tasinato, Gianmassimo *see* **Burgess, Clifford P. et al., 2004h:83096** *and* **Aghababaie, Yashar et al.**
Tavanfar, Ali Reza *see* **Nouri-Zonoz, Mohammad, 2004c:83032**
Tekin, Bayram *see* **Deser, Stanley, 2004i:83029**
Teo, Edward Black diholes in five dimensions. (English summary) **2004m:83022**
— *see also* **Tan, H. S., 2004k:83074**
Thomas, Scott *see* **Anisimov, Alexey et al., 2004c:81185**
Toharia, Manuel *see* **Dominici, Daniele et al., 2004i:81271**
Tomasiello, Alessandro *see* **Kaste, Peter et al., 2004b:83132**
Torii, Takashi[1] *see* **Shiromizu, Tetsuya et al.**
Toyoda, Haruki *see* **Naka, Shigefumi, 2004b:83081**
Turok, Neil The ekpyrotic universe and its cyclic extension.
Tye, S.-H. Henry *see* **Shiu, Gary et al., 2004g:83130** *and* **Firouzjahi, Hassan, 2004k:83143**
Uchida, Yuki *see* **Ida, Daisuke et al., 2004f:83041**
Uesugi, Tomoko *see* **Shiromizu, Tetsuya et al.**
Vacaru, Sergiu I. (*with* Dehnen, Heinz) Locally anisotropic structures and nonlinear connections in Einstein and gauge gravity. (English summary) **2004d:83060**
Verlinde, Erik CFT & FRW. **2004c:81242**
Volovik, Grigory E. What can the quantum liquid say on the brane black hole, the entropy of an extremal black hole, and the vacuum energy? (English summary) **2004e:83045**
Wasserman, Ira *see* **Shiu, Gary et al., 2004g:83130**
Watson, Gary Scott *see* **Brandenberger, Robert et al., 2004i:83149**
Weiner, Neal *see* **Randall, Lisa et al., 2004e:81096**
Wesson, Paul S. *see* **Seahra, Sanjeev S., 2004c:53127**
Wetterich, Christof *see* **Hebecker, Arthur, 2004k:83079**
Wiese, Uwe-Jens *see* **Bietenholz, Wolfgang et al.**
de Wit, Bernard Supergravity. **2004i:83144**
Woolgar, E. *see* **Galloway, Gregory J. et al., 2004i:83030**
Wu, Yueqin *see* **Zhao, Ren et al.**
Wuensch, Daniela The fifth dimension: Theodor Kaluza's ground-breaking idea. (English summary) **2004k:83001**
Yoshida, Shijun *see* **Cardoso, Vitor et al., 2004k:83063**
Yoshioka, Koichi *see* **Abe, Hiroyuki et al., 2004c:81176**
Zandron, O. S. Topological five-dimensional Chern-Simons gravity theory in the canonical covariant formalism. (English summary) **2004k:81343**
Zavala C., Ivonne *see* **Burgess, Clifford P. et al., 2004h:83096** *and* **Aghababaie, Yashar et al.**
Zel'nikov, A. I. *see* **Frolov, Valery P. et al., 2004g:81164**
Zhang, Li Chun *see* **Zhao, Ren et al.**
Zhao, Ren (*with* Wu, Yueqin; Zhang, Li Chun) Nernst theorem and statistical entropy of 5-dimensional rotating black hole. (English summary)
Zucker, Max Off-shell supergravity in five dimensions and supersymmetric brane world scenarios. (English summary) **2004d:83097**

Items listed otherwise than by author

Biography:
Kaluza, Theodor Franz Eduard *see* **Wuensch, Daniela, 2004k:83001**
Brane world: new perspective in cosmology ★ Brane world: new perspective in cosmology.
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Relativistic and Cosmological Aspects of the Brane World ★ Brane world: new perspective in cosmology.

83E30 String and superstring theories [see also 81T30]

Aharony, Ofer (*with* Berkooz, Micha; Silverstein, Eva) Nonlocal string theories on $AdS_3 \times S^3$ and stable nonsupersymmetric backgrounds. (English summary) **2004c:83112**
Alday, Luis Fernando (*with* Cirafici, Michele) An example of localized D-branes solution on PP-wave backgrounds. (English summary) **2004e:83084**
Alishahiha, Mohsen (*with* Parvizi, Shahrokh) Branes in time-dependent backgrounds and field theory/gravity duality. (English summary) **2004a:83067**
— (*with* Mosaffa, Amir E.; Yavartanoo, Hossein) Multi-spin string solutions in AdS black hole and confining backgrounds. (English summary) **2004m:83083**
Álvarez, Enrique (*with* Conde, Jorge; Hernández, Lorenzo) The Dirichlet obstruction in AdS/CFT. (English summary) **2004k:83132**
— (*with* Conde, Jorge; Hernández, Lorenzo) Codimension-two holography. (English summary) **2004e:83085**
de Alwis, S. P. *see* **Brustein, Ram et al., 2004j:83121** *and* **2004j:83122**
Antunes, Nuno D. (*with* Copeland, Edmund J.; Hindmarsh, Mark; Lukas, André) Kinky brane worlds. (English summary) **2004k:83133**
Ardalan, F. (*with* Arfaei, H.; Garousi, Mohammad R.; Ghodsi, Ahmad) Gravity on noncommutative D-branes. (English summary) **2004c:83113**
Arfaei, H. *see* **Ardalan, F. et al., 2004c:83113**
Argurio, Riccardo Strings on BTZ black holes. (English summary) (*see* **2004d:81111**)
— Comments on cosmological RG flows. (English summary) **2004a:83068**
Bagger, Jonathan A. (*with* Redi, Michele) Supersymmetry breaking by Wilson lines in AdS_5. (English summary) **2004k:83134**
Bak, Dongsu (*with* Gutperle, Michael; Hirano, Shinji) A dilatonic deformation of AdS_5 and its field theory dual. (English summary) **2004f:83080**
Bakas, Ioannis (*with* Sonnenschein, Jacob) On integrable models from pp-wave string backgrounds. (English summary) **2004c:83114**
Balasubramanian, Vijay (*with* de Boer, Jan; Minic, Djordje) Exploring de Sitter space and holography. (English summary) **2004e:83086**
— (*with* Hassan, S. F.; Keski-Vakkuri, Esko; Naqvi, Asad) Space-time orbifold: a toy model for a cosmological singularity. (English summary) **2004m:83084**
Barbón, José L. F. (*with* Rabinovici, Eliezer) Remarks on black hole instabilities and closed string tachyons. (English summary) **2004e:83087**
Bellucci, Stefano (*with* Sochichiu, Corneliu) Fermion doubling and Berenstein-Maldacena-Nastase correspondence. (English summary) **2004h:83078**
Berglund, Per (*with* Hübsch, T.; Minic, Djordje) De Sitter spacetimes from warped compactifications of IIB string theory. (English summary) **2004c:83115**
— (*with* Hübsch, T.; Minic, Djordje) Relating the cosmological constant and supersymmetry breaking in warped compactifications of IIB string theory. (English summary) **2004c:83116**
Bergshoeff, Eric (*with* Gran, Ulf; Linares, Román; Nielsen, Mikkel; Roest, Diederik) Domain walls and the creation of strings. (English summary) **2004e:83088**
Berkooz, Micha (*with* Sever, Amit; Shomer, Assaf) "Double-trace" deformations, boundary conditions and spacetime singularities. (English summary) **2004g:83112**
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Berkovits, Nathan (*with* Maldacena, Juan) $N = 2$ superconformal description of superstring in Ramond-Ramond plane wave backgrounds. (English summary) **2004b:83123**
Bertolini, Matteo (*with* de Boer, Jan; Harmark, Troels; Imeroni, Emiliano; Obers, Niels A.) Gauge theory description of compactified pp-waves. (English summary) **2004f:83081**
Bhattacharya, Somdatta (*with* Roy, Shibaji) Penrose limit and NCYM theories in diverse dimensions. (English summary) **2004d:83079**
— (*with* Roy, Shibaji) Time dependent supergravity solutions in arbitrary dimensions. (English summary) **2004m:83085**
Bianchi, Massimo (*with* Morales, José F.; Samtleben, Henning) On stringy $AdS_5 \times S^5$ and higher spin holography. (English summary) **2004g:83113**
Blau, Matthias (*with* Meessen, Patrick; O'Loughlin, Martin) Gödel, Penrose, anti-Mach: extra supersymmetries of time-dependent plane waves. (English summary) **2004i:83117**
— (*with* O'Loughlin, Martin) Homogeneous plane waves. (English summary) **2004e:83089**
Bobkov, K. Graviton-scalar interaction in the pp-wave background. (English summary) **2004e:83090**
Boehm, Timon (*with* Brandenberger, Robert) On T-duality in brane gas cosmology. (English summary) **2004e:83091**
de Boer, Jan (*with* Solodukhin, S. N.) A holographic reduction of Minkowski space-time. (English summary) **2004i:83118**
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Borokhov, Vadim (*with* Gubser, Steven S.) Non-supersymmetric deformations of the dual of a confining gauge theory. (English summary) **2004e:83092**

Boulton, Lyonell S. (*with* García del Moral, M. P.; Martín, Isbelia; Restuccia, A.) On the spectrum of a matrix model for the $D = 11$ supermembrane compactified on a torus with non-trivial winding. (English summary) **2004b:83124**

— (*with* García del Moral, M. P.; Restuccia, A.) Discreteness of the spectrum of the compactified $D = 11$ supermembrane with nontrivial winding. (English summary) **2004i:83119**

Bozhilov, Plamen Lyubenov M2-brane solutions in $AdS_7 \times S^4$. (English summary) **2004k:83135**

Brace, Daniel Closed geodesics on Gödel-type backgrounds. (English summary) **2004m:83086**

Brandenberger, Robert *see* **Boehm, Timon**, **2004e:83091**

Brandhuber, Andreas (*with* Sfetsos, Konstadinos) PP-waves from rotating and continuously distributed D3-branes. (English summary) **2004a:83069**

Brändle, Matthias (*with* Lukas, André) Flop transitions in M-theory cosmology. (English summary) **2004j:83120**

Brax, Philippe (*with* Falkowski, Adam; Lalak, Zygmunt) Cosmological constant and kinetic supersymmetry breakdown on a moving brane. (English summary) **2004g:83114**

Brecher, Dominic (*with* Gregory, James P.; Saffin, P. M.) String theory and the classical stability of plane waves. (English summary) **2004b:83125**

Brugués, Jan (*with* Gomis, Joaquim; Mateos, Toni; Ramírez, Toni) Supergravity duals of non-commutative wrapped D6-branes and supersymmetry without supersymmetry. (English summary) **2004a:83070**

Brustein, Ram (*with* de Alwis, S. P.; Novak, E. G.) Inflationary cosmology in the central region of string and M-theory moduli space. (English summary) **2004j:83121**

— (*with* de Alwis, S. P.; Novak, E. G.) M-theory moduli space and cosmology. (English summary) **2004j:83122**

Buchel, Alex (*with* Walcher, Johannes) Comments on supergravity description of S-branes. (English summary) **2004m:83087**

— (*with* Langfelder, Peter; Walcher, Johannes) Time-dependent backgrounds in supergravity and string theory. (English summary) **2004m:83088**

Burgess, Clifford P. (*with* Quevedo, Fernando; Zavala C., Ivonne; Rey, Soo-Jong; Tasinato, Gianmassimo) Cosmological spacetimes from negative tension brane backgrounds. (English summary) **2004e:83093**

— (*with* Filotas, Elise; Klein, Matthias; Quevedo, Fernando) Low-energy brane-world effective actions and partial supersymmetry breaking. (English summary) **2004j:83123**

— (*with* Kallosh, Renata; Quevedo, Fernando) De Sitter string vacua from supersymmetric D-terms. (English summary) **2004j:83124**

Cadoni, Mariano Entropy of the 3-brane and the AdS/CFT duality from a two-dimensional perspective. (English summary) **2004i:83120**

Callan, Curtis G., Jr. (*with* Lee, Hok Kong; McLoughlin, Tristan; Schwarz, John H.; Swanson, Ian; Wu, Xinkai) Quantizing string theory in $AdS_5 \times S^5$: beyond the pp-wave. (English summary) **2004i:83121**

Carneiro da Cunha, Bruno G. (*with* Martinec, Emil J.) Closed string tachyon condensation and worldsheet inflation. (English summary) **2004k:83136**

Cartas-Fuentevilla, R. Symplectic geometry, Poincaré algebra, and equal-global time commutators for p-branes in a curved background. (English summary) **2004e:83094**

Chen, Chiang-Mei (*with* Ho, Pei-Ming; Neupane, Ishwaree P.; Wang, John E.; Ohta, Nobuyoshi) Hyperbolic space cosmologies. (English summary)

Choptuik, Matthew W. (*with* Lehner, Luis; Olabarrieta, Ignacio; Petryk, Roman; Pretorius, Frans; Villegas, Hugo) Towards the final fate of an unstable black string. (English summary)

Chrobok, Thoralf *see* **Obukhov, Yu. N. et al.**, **2004e:83107**

Ciesielski, Rafał (*with* Lalak, Zygmunt) Racetrack models in theories from extra dimensions. (English summary) **2004a:83071**

Cirafici, Michele *see* **Alday, Luis Fernando**, **2004e:83084**

Coley, Alan A. A class of exact classical solutions to string theory. (English summary) **2004h:83079**

— (*with* Milson, R.; Pelavas, N.; Pravda, V.; Pravdová, A.; Zalaletdinov, R. M.) Generalizations of pp-wave spacetimes in higher dimensions. (English summary) **2004j:83125**

Conde, Jorge *see* **Álvarez, Enrique et al.**, **2004e:83085** *and* **2004k:83132**

Copeland, Edmund J. *see* **Antunes, Nuno D. et al.**, **2004k:83133**

Cornalba, Lorenzo (*with* Costa, Miguel S.) On the classical stability of orientifold cosmologies. (English summary) **2004j:83126**

Costa, Miguel S. *see* **Cornalba, Lorenzo**, **2004j:83126**

Couchoud, Nicolas Anti-de Sitter branes with Neveu-Schwarz and Ramond-Ramond backgrounds. (English summary) **2004b:83126**

Cvetič, Mirjam (*with* Lü, Hong[1]; Pope, C. N.; Stelle, Kellogg S.) Linearly-realised worldsheet supersymmetry in pp-wave backgrounds. (English summary) **2004e:83095**

Damour, Thibault String cosmology and chaos. (English summary) **2004m:83089**

D'Appollonio, Giuseppe (*with* Kiritsis, Elias) String interactions in gravitational wave backgrounds. (English summary) **2004k:83137**

Dasgupta, Keshav (*with* Rajesh, Govindan; Robbins, Daniel; Sethi, Savdeep) Time-dependent warping, fluxes, and NCYM. (English summary) **2004f:83082**

D'Auria, Riccardo (*with* Ferrara, Sergio; Gargiulo, Floriana; Trigiante, Mario; Vaulà, Silvia) $N = 4$ supergravity Lagrangian for type-IIB on $T^6/\mathbb{Z}_2$ orientifold in presence of fluxes and D3-branes. (English summary) **2004e:83096**

— (*with* Ferrara, Sergio; Lledó, María A.; Vaulà, Silvia) No-scale $N = 4$ supergravity coupled to Yang-Mills: the scalar potential and super-Higgs effect. (English summary) **2004b:83127**

David, Justin R. (*with* Mandal, Gautam; Wadia, Spenta R.) Microscopic formulation of black holes in string theory. (English summary) **2004c:83117**

— Plane waves with weak singularities. (English summary) **2004k:83138**

Davies, Ian James (*with* Mansfield, Paul) A large-D Weyl invariant string in anti-de Sitter space. (English summary) **2004e:83097**

Davis, Anne Christine *see* **Majumdar, Mahbub**

Dehghani, M. H. (*with* Khodam-Mohammadi, A.) Thermodynamics of a d-dimensional charged rotating black brane and the AdS/CFT correspondence. (English summary) **2004f:83083**

Deliduman, Cemsinan AdS_2 D-branes in Lorentzian AdS_3. (English summary) **2004k:83139**

Denef, Frederik On the correspondence between D-branes and stationary supergravity solutions of type II Calabi-Yau compactifications. (English summary) **2004e:83098**

Dobashi, Suguru (*with* Shimada, Hidehiko; Yoneya, Tamiaki) Holographic reformulation of string theory on $AdS_5 \times S^5$ background in the PP-wave limit. (English summary) **2004g:83115**

Dorn, Harald (*with* Sieg, Christoph) Conformal boundary and geodesics for $AdS_5 \times S^5$ and the plane wave: their approach in the Penrose limit. (English summary) **2004e:83099**

Duff, Michael J. (*with* Liu, James T.; Sati, Hisham) Complementarity of the Maldacena and Karch-Randall pictures. (English summary) **2004h:83080**

Easther, Richard (*with* Greene, Brian R.; Jackson, Mark G.) Cosmological string gas on orbifolds. (English summary) **2004f:83084**

— (*with* Greene, Brian R.; Jackson, Mark G.; Kabat, Daniel) Brane gas cosmology in M theory: late time behavior. (English summary) **2004h:83081**

Edelstein, José Daniel (*with* Paredes, Ángel; Ramallo, Alfonso V.) Wrapped branes with fluxes in 8d gauged supergravity. (English summary) **2004c:83118**

Elitzur, Shmuel (*with* Giveon, Amit; Kutasov, David; Rabinovici, Eliezer) From big bang to big crunch and beyond. (English summary) **2004c:83119**

Elvang, Henriette (*with* Emparan, Roberto) Black rings, supertubes, and a stringy resolution of black hole non-uniqueness. (English summary) **2004k:83140**

Emparan, Roberto (*with* Garriga, Jaume) A note on accelerating cosmologies from compactifications and S-branes. (English summary) **2004e:83100**

— Rotating circular strings, and infinite non-uniqueness of black rings. (English summary) **2004m:83090**

— *see also* **Elvang, Henriette**, **2004k:83140**

Englert, François (*with* Houart, Laurent; West, Peter) Intersection rules, dynamics and symmetries. (English summary) **2004h:83082**

Escoda, Cristina (*with* Gómez-Reino, Marta; Quevedo, Fernando) Saltatory de Sitter string vacua. **2004k:83141**

Falkowski, Adam *see* **Brax, Philippe et al.**, **2004g:83114**

Feinstein, Alexander Penrose limits, the colliding plane-wave problem and the classical string backgrounds. (English summary) **2004c:83120**

Ferrara, Sergio *see* **D'Auria, Riccardo et al.**, **2004b:83127** *and* **2004e:83096**

Figueroa-O'Farrill, José (*with* Kawano, Teruhiko; Yamaguchi, Satoshi[2]) Parallelisable heterotic backgrounds. (English summary) **2004k:83142**

— *see also* **Stanciu, Sonia**, **2004m:83098**

Filotas, Elise *see* **Burgess, Clifford P. et al.**, **2004j:83123**

Firouzjahi, Hassan (*with* Tye, S.-H. Henry) Closer towards inflation in string theory. (English summary) **2004k:83143**

Flachi, Antonino (*with* Garriga, Jaume; Pujolàs, Oriol; Tanaka, Takahiro) Moduli stabilization in higher dimensional brane models. (English summary) **2004k:83144**

Fox, Daniel *see* **Traschen, Jennie**, **2004j:83135**

Fredenhagen, Stefan (*with* Schomerus, Volker) On minisuperspace models of S-branes. (English summary) **2004m:83091**

Freivogel, Ben (*with* Giddings, Steven B.; Lippert, Matthew) Toward a theory of precursors. (English summary) **2004b:83128**

Frey, Andrew R. String theoretic bounds on Lorentz-violating warped compactification. (English summary) **2004d:83080**

Frolov, Sergei A. (*with* Tseytlin, Arkady A.) Quantizing three-spin string solution in $AdS_5 \times S^5$. (English summary) **2004g:83116**

Frolov, Valery P. (*with* Snajdr, Martin; Stojković, Dejan) Interaction of a brane with a moving bulk black hole. (English summary)

García del Moral, M. P. *see* **Boulton, Lyonell S. et al.**, **2004b:83124** *and* **2004i:83119**

Gargiulo, Floriana *see* **D'Auria, Riccardo et al.**, **2004e:83096**

Garousi, Mohammad R. *see* **Ardalan, F. et al.**, **2004c:83113**

Garriga, Jaume *see* **Emparan, Roberto**, **2004e:83100** *and* **Flachi, Antonino et al.**, **2004k:83144**

Gegenberg, Jack (*with* Vaidya, Sachindeo; Vázquez-Poritz, J. F.) Thurston geometries from eleven dimensions. (English summary) **2004b:83129**

Gherghetta, Tony (*with* Kehagias, Alex) Anomaly-free brane worlds in seven dimensions. (English summary) **2004c:83121**

Ghezelbash, A. M. (*with* Mann, Robert) Kerr-AdS bubble spacetimes and time-dependent AdS/CFT correspondence. (English summary)

Ghodsi, Ahmad *see* **Ardalan, F. et al.**, **2004c:83113**

Giddings, Steven B. *see* **Freivogel, Ben et al.**, **2004b:83128**

Gimon, Eric G. (*with* Hashimoto, Akikazu; Lunin, Oleg; Hubeny, Veronika E.; Rangamani, Mukund) Black strings in asymptotically plane wave geometries. (English summary) **2004h:83083**

Giveon, Amit (*with* Pakman, Ari) More on superstrings in $AdS_3 \times \mathcal{N}$. (English summary) **2004i:83122**

— *see also* **Elitzur, Shmuel et al.**, **2004c:83119**

Goheer, Naureen (*with* Kleban, Matthew; Susskind, Leonard) The trouble with de Sitter space. (English summary) **2004i:83123**

Gómez-Reino, Marta (*with* Zavala C., Ivonne) Recombination of intersecting D-branes and cosmological inflation. (English summary) **2004c:83122**

— *see also* **Escoda, Cristina et al.**, **2004k:83141**

Gomis, Jaume (*with* Motl, Luboš; Strominger, Andrew) pp-wave/CFT_2 duality. (English summary) **2004e:83101**

Gomis, Joaquim (*with* Mateos, Toni; Silva, Pedro J.; Van Proeyen, Antoine) Supertubes in reduced holonomy manifolds. (English summary) **2004i:83124**

— *see also* **Brugués, Jan et al.**, **2004a:83070**

Gran, Ulf *see* **Bergshoeff, Eric et al.**, **2004e:83088**

Greene, Brian R. *see* **Easther, Richard et al.**, **2004f:83084** *and* **2004h:83081**

Gregory, James P. *see* **Brecher, Dominic et al.**, **2004b:83125**

Gubser, Steven S. (*with* Ozakin, Arkadas) Universality classes for horizon instabilities. (English summary) **2004k:83145**

— *see also* **Borokhov, Vadim**, **2004e:83092**

Gutperle, Michael (*with* Kallosh, Renata; Linde, Andrei) M/string theory, S-branes and the accelerating universe. (English summary) **2004g:83117**

— (*with* Headrick, Matthew; Minwalla, Shiraz; Schomerus, Volker) Spacetime energy decreases under world-sheet RG flow. (English summary) **2004a:83072**

— *see also* **Bak, Dongsu et al., 2004f:83080**
Harmark, Troels *see* **Bertolini, Matteo et al., 2004f:83081**
Hashimoto, Akikazu *see* **Gimon, Eric G. et al., 2004h:83083**
Hassan, S. F. *see* **Balasubramanian, Vijay et al., 2004m:83084**
He, Feng *see* **Wei, Yi Huan et al., 2004d:83089**
Headrick, Matthew *see* **Gutperle, Michael et al., 2004a:83072**
Herdeiro, Carlos A. R. Spinning deformations of the D1–D5 system and a geometric resolution of closed timelike curves. (English summary) **2004m:83092**
Hernández, Lorenzo *see* **Álvarez, Enrique et al., 2004e:83085** *and* **2004k:83132**
Hernández, Rafael (*with* Sfetsos, Konstadinos) Holonomy from wrapped branes. (English summary) **2004m:83093**
Herrera-Aguilar, Alfredo (*with* Kechkin, Oleg V.) String theory extensions of Einstein-Maxwell fields: the stationary case. (English summary) **2004i:83125**
Hikida, Yasuaki (*with* Rey, Soo-Jong) Can branes travel beyond CTC horizon in Gödel universe? (English summary) **2004g:83118**
Hindmarsh, Mark *see* **Antunes, Nuno D. et al., 2004k:83133**
Hirano, Shinji *see* **Bak, Dongsu et al., 2004f:83080**
Hirayama, Takayuki (*with* Kang, Gungwon; Lee, Youngone) Classical stability of charged black branes and the Gubser-Mitra conjecture. (English summary) **2004c:83123**
Ho, Pei-Ming *see* **Chen, Chiang-Mei et al.**
Horowitz, Gary T. (*with* Maeda, Kengo) Inhomogeneous near-extremal black branes. (English summary) **2004c:83124**
— Playing with black strings.
Hosotani, Yutaka Weyl invariant spacetime. (English summary) **2004c:83125**
Houart, Laurent *see* **Englert, François et al., 2004h:83082**
Howe, Paul S. (*with* Tsimpis, Dimitrios) On higher-order corrections in M theory. (English summary) **2004i:83126**
Hu, Sen *see* **Wang, Xiao-Jun, 2004j:83137**
Hubeny, Veronika E. (*with* Rangamani, Mukund; Verlinde, Erik) Penrose limits and non-local theories. (English summary) **2004b:83130**
— (*with* Rangamani, Mukund) Generating asymptotically plane wave spacetimes. (English summary) **2004d:83081**
— (*with* Rangamani, Mukund) Horizons and plane waves: a review. (English summary) **2004i:83127**
— *see also* **Gimon, Eric G. et al., 2004h:83083**
Hübsch, T. *see* **Berglund, Per et al., 2004c:83115** *and* **2004c:83116**
Ideguchi, Kota (*with* Imamura, Yosuke) Strings in a PP-wave background compactified on T^8 with twisted S^1. (English summary) **2004j:83127**
Imamura, Yosuke *see* **Ideguchi, Kota, 2004j:83127**
Imeroni, Emiliano *see* **Bertolini, Matteo et al., 2004f:83081**
Iofa, Mikhail Z. Magnetic black holes in string theory. (English summary) **2004f:83085**
Israël, Dan Quantization of heterotic strings in a Gödel/anti de Sitter spacetime and chronology protection. (English summary) **2004m:83094**
Ito, Katsushi (*with* Sekino, Yasuhiro) Penrose limit and enhançon geometry. (English summary) **2004h:83084**
Ivashchuk, Vladimir D. Black p-brane solutions for general intersections. (English summary) **2004g:83119**
Jackson, Mark G. *see* **Easther, Richard et al., 2004f:83084** *and* **2004h:83081**
Janssen, Bert (*with* Lozano, Yolanda) On the dielectric effect for gravitational waves. (English summary) **2004b:83131**
— (*with* Lozano, Yolanda) Non-abelian giant gravitons. (English summary) **2004h:83085**
— (*with* Lozano, Yolanda) A microscopical description of giant gravitons. (English summary) **2004c:83126**
Kabat, Daniel (*with* Lifschytz, Gilad; Lowe, David A.) Black hole thermodynamics from calculations in strongly-coupled gauge theory. **2004c:83127**
— *see also* **Easther, Richard et al., 2004h:83081**
Kachru, Shamit (*with* Liu, Xiao; Schulz, Michael Brian; Trivedi, Sandip P.) Supersymmetry changing bubbles in string theory. (English summary) **2004h:83086**
Kallosh, Renata Supergravity, M theory and cosmology.
— *see also* **Gutperle, Michael et al., 2004g:83117** *and* **Burgess, Clifford P. et al., 2004j:83124**
Kaloper, Nemanja Small numbers from tunneling betwen brane throats. (English summary)
— Cosmological horizons, quintessence and string theory. (English summary) **2004k:83146**
Kang, Gungwon *see* **Hirayama, Takayuki et al., 2004c:83123**
Kaste, Peter (*with* Minasian, Ruben; Petrini, Michela; Tomasiello, Alessandro) Kaluza-Klein bundles and manifolds of exceptional holonomy. (English summary) **2004b:83132**
Kawano, Teruhiko *see* **Figueroa-O'Farrill, José et al., 2004k:83142**
Kechkin, Oleg V. *see* **Herrera-Aguilar, Alfredo, 2004i:83125**
Kehagias, Alex *see* **Gherghetta, Tony, 2004c:83121**
Keski-Vakkuri, Esko *see* **Balasubramanian, Vijay et al., 2004m:83084**
Keurentjes, Arjan The group theory of oxidation. (English summary) **2004k:83147a**
— The group theory of oxidation. II. Cosets on non-split groups. (English summary) **2004k:83147b**
Khan, Alex *see* **Larsen, A. L., 2004m:83096**
Khodam-Mohammadi, A. *see* **Dehghani, M. H., 2004f:83083**
Khuri, Ramzi R. (*with* Pokotilov, Andriy) Velocity-dependent forces and an accelerating universe. (English summary) **2004b:83133**
Kim, Hongsu Fluxbranes delaying brane-antibrane annihilation. (English summary) **2004c:83128**
Kim, Nakwoo (*with* Yee, Jung-Tay) Supersymmetry and branes in M-theory plane waves. (English summary) **2004c:83129**
Kim, Sung-Won (*with* Kim, Won Tae; Oh, John J.; Yee, Ki Hyuk) Duality of quasilocal gravitational energy and charges with nonorthogonal boundaries. (English summary) **2004g:83120**
Kim, Won Tae *see* **Kim, Sung-Won et al., 2004g:83120**
Kiritsis, Elias (*with* Pioline, Boris) Strings in homogeneous gravitational waves and null holography. (English summary) **2004i:83128**
— *see also* **D'Appollonio, Giuseppe, 2004k:83137**
Kitazawa, Noriaki Gaugino condensation in heterotic five-brane background. (English summary)
Kleban, Matthew *see* **Goheer, Naureen et al., 2004i:83123**
Klein, Matthias *see* **Burgess, Clifford P. et al., 2004j:83123**
Klusoň, Josef The Schrödinger wave functional and S-branes. (English summary) **2004j:83128**
Kobayashi, Shinpei (*with* Koyama, Kazuya) Cosmology based on Hořava-Witten theory. (English summary) **2004j:83129**
Kol, Barak (*with* Wiseman, Toby) Evidence that highly non-uniform black strings have a conical waist. (English summary) **2004e:83102**
Kovtun, Pavel (*with* Son, Dam Thanh; Starinets, Andrei O.) Holography and hydrodynamics: diffusion on stretched horizons. (English summary) **2004j:83130**
Koyama, Kazuya *see* **Shiromizu, Tetsuya et al., 2004f:83091** *and* **Kobayashi, Shinpei, 2004j:83129**
Krasnitz, Michael Correlation functions in a cascading $N = 1$ gauge theory. (English summary) **2004a:83073**
Krause, Axel Dual brane pairs and the Bekenstein-Hawking entropy of non-SUSY spacetimes. (English summary) **2004g:83121**
Kruczenski, Martín Supergravity backgrounds corresponding to D7 branes wrapped on Kähler manifolds. (English summary) **2004m:83095**
Kumar, Jason A brief comment on instanton-like singularities and cosmological horizons. (English summary) **2004e:83103**
Kunze, Kerstin E. T-duality and Penrose limits of spatially homogeneous and inhomogeneous cosmologies. (English summary) **2004k:83148**
Kurita, Yasunari (*with* Sakagami, Masa-aki) Quasinormal modes of D3-brane black holes. (English summary) **2004b:83134**
Kutasov, David *see* **Elitzur, Shmuel et al., 2004c:83119**
Kwon, O-Kab (*with* Shin, Hyeonjoon) Type IIA supergravity excitations in a plane-wave background. (English summary) **2004k:83149**
Lalak, Zygmunt *see* **Ciesielski, Rafał, 2004a:83071** *and* **Brax, Philippe et al., 2004g:83114**
Langfelder, Peter *see* **Buchel, Alex et al., 2004m:83088**
Larsen, A. L. (*with* Khan, Alex) Novel explicit multi spin string solitons in AdS_5. (English summary) **2004m:83096**
Lawrence, Albion On the instability of 3d null singularities. (English summary) **2004d:83082**
Leblond, Frédéric (*with* Peet, Amanda W.) SD-brane gravity fields and rolling tachyons. (English summary) **2004e:83104**
Lee, Hok Kong (*with* Wu, Xinkai) Two-graviton interaction in pp-wave background in matrix theory and supergravity. (English summary) **2004f:83086**
— *see also* **Callan, Curtis G., Jr. et al., 2004i:83121**
Lee, Kiyoung (*with* Siegel, Warren) Bound-state gravity from higher derivatives. (English summary) **2004g:83122**
Lee, Youngone *see* **Hirayama, Takayuki et al., 2004c:83123**
Lehner, Luis *see* **Choptuik, Matthew W. et al.**
Lehners, Jean-Luc (*with* Stelle, Kellogg S.) $D = 5$ M-theory radion supermultiplet dynamics. (English summary) **2004e:83105**
Li, Miao[1] Correspondence principle in a pp-wave background. (English summary) **2004f:83087**
— PP-wave black holes and the matrix model. (English summary) **2004i:83129**
Lifschytz, Gilad *see* **Kabat, Daniel et al., 2004c:83127**
Linares, Román *see* **Bergshoeff, Eric et al., 2004e:83088**
Linde, Andrei *see* **Gutperle, Michael et al., 2004g:83117**
Lippert, Matthew *see* **Freivogel, Ben et al., 2004b:83128**
Liu, James T. (*with* Sabra, Wafic A.) Charged configurations in (A)dS spaces. (English summary) **2004i:83130**
— *see also* **Duff, Michael J. et al., 2004h:83080**
Liu, Xiao *see* **Kachru, Shamit et al., 2004h:83086**
Lledó, María A. *see* **D'Auria, Riccardo et al., 2004b:83127**
Louis, Jan Mirror symmetry in Calabi-Yau compactifications with background flux. (English summary) **2004g:83123**
Lowe, David A. *see* **Kabat, Daniel et al., 2004c:83127**
Lozano, Yolanda *see* **Janssen, Bert, 2004b:83131**; **2004c:83126** *and* **2004h:83085**
Lü, Hong[1] *see* **Cvetič, Mirjam et al., 2004e:83095**
Lukas, André *see* **Brändle, Matthias, 2004j:83120** *and* **Antunes, Nuno D. et al., 2004k:83133**
Lunin, Oleg (*with* Mathur, Samir D.; Saxena, Ashish) What is the gravity dual of a chiral primary? (English summary) **2004i:83131**
— *see also* **Gimon, Eric G. et al., 2004h:83083**
Maeda, Kengo *see* **Horowitz, Gary T., 2004c:83124**
Majumdar, Mahbub (*with* Davis, Anne Christine) D-brane anti-brane annihilation in an expanding universe. (English summary)
Maldacena, Juan *see* **Berkovits, Nathan, 2004b:83123**
Maloney, Alexander *see* **Strominger, Andrew et al.**
Mandal, Gautam *see* **David, Justin R. et al., 2004c:83117**
Mann, Robert *see* **Ghezelbash, A. M.**
Mansfield, Paul *see* **Davies, Ian James, 2004e:83097**
Marolf, Donald Chern-Simons terms and the three notions of charge. (English summary) **2004g:83124**
— (*with* Pando Zayas, Leopoldo A.) On the singularity structure and stability of plane waves. (English summary) **2004c:83130**
Martín, Isbelia *see* **Boulton, Lyonell S. et al., 2004b:83124**
Martinec, Emil J. *see* **Carneiro da Cunha, Bruno G., 2004k:83136**
Mas, Javier (*with* Ramallo, Alfonso V.) Supersymmetric intersections of M-branes and pp-waves. (English summary) **2004e:83106**
Mateos, Toni *see* **Brugués, Jan et al., 2004a:83070** *and* **Gomis, Joaquim et al., 2004i:83124**
Mathur, Samir D. *see* **Lunin, Oleg et al., 2004i:83131**
Matsuda, Tomohiro Incidental brane defects. (English summary) **2004j:83131**
McInnes, Brett The strong energy condition and the S-brane singularity problem. (English summary) **2004m:83097**
McLoughlin, Tristan *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
Meessen, Patrick *see* **Blau, Matthias et al., 2004i:83117**
Merlatti, Paolo About the enhançon mechanism. (English summary) **2004c:83131**
Milson, R. *see* **Coley, Alan A. et al., 2004j:83125**
Minasian, Ruben *see* **Kaste, Peter et al., 2004b:83132**

Minic, Djordje *see* **Berglund, Per et al., 2004c:83115**; **2004c:83116** *and* **Balasubramanian, Vijay et al., 2004e:83086**
Minwalla, Shiraz *see* **Gutperle, Michael et al., 2004a:83072**
Mizoguchi, Shun'ya (*with* Mogami, Takeshi; Satoh, Yuji) Penrose limits and Green-Schwarz strings. (English summary) **2004d:83083**
Mogami, Takeshi *see* **Mizoguchi, Shun'ya et al., 2004d:83083**
Mohaupt, Thomas Topological transitions and enhançon-like geometries in Calabi-Yau compactifications of M-theory. (English summary) **2004h:83087**
Morales, José F. (*with* Samtleben, Henning) Supergravity duals of matrix string theory. (English summary) **2004b:83135**
— String theory on Dp-plane waves. (English summary) **2004c:83132**
— *see also* **Bianchi, Massimo et al., 2004g:83113**
Mosaffa, Amir E. *see* **Alishahiha, Mohsen et al., 2004m:83083**
Moss, Ian G. Boundary terms for eleven-dimensional supergravity and M-theory. (English summary) **2004i:83132**
Motl, Luboš *see* **Gomis, Jaume et al., 2004e:83101**
Naculich, Stephen G. (*with* Schnitzer, Howard J.; Wyllard, Niclas) pp-wave limits and orientifolds. (English summary) **2004k:83150**
Nakayama, Noriko (*with* Sugiyama, Katsuyuki; Yoshida, Kentaroh) Ground state of the supermembrane on a pp wave. (English summary) **2004k:83151**
Naqvi, Asad *see* **Balasubramanian, Vijay et al., 2004m:83084**
Nayak, Rashmi R. D-branes at an angle in a pp-wave background. (English summary) **2004f:83088**
Neupane, Ishwaree P. *see* **Chen, Chiang-Mei et al.**
Ng, Selena (*with* Perry, Malcolm) Brane splitting via quantum tunneling. (English summary) **2004d:83084**
Nielsen, Mikkel *see* **Bergshoeff, Eric et al., 2004c:83088**
Novak, E. G. *see* **Brustein, Ram et al., 2004j:83121** *and* **2004j:83122**
Obers, Niels A. *see* **Bertolini, Matteo et al., 2004f:83081**
Obukhov, Yu. N. (*with* Chrobok, Thoralf; Scherfner, Mike) Rotation in string cosmology. (English summary) **2004e:83107**
Oh, John J. *see* **Kim, Sung-Won et al., 2004g:83120**
Oh, Kyungho (*with* Tatar, Radu) Orbifolds, Penrose limits, and supersymmetry enhancement. (English summary) **2004d:83085**
Ohta, Nobuyoshi (*with* Panigrahi, Kamal L.; Sanjay) Intersecting branes in pp-wave spacetime. (English summary) **2004i:83133**
— Accelerating cosmologies from spacelike branes. (English summary) **2004h:83088**
— A study of accelerating cosmologies from superstring/M theories. (English summary)
— *see also* **Chen, Chiang-Mei et al.**
Olabarrieta, Ignacio *see* **Choptuik, Matthew W. et al.**
O'Loughlin, Martin *see* **Blau, Matthias et al., 2004e:83089** *and* **2004i:83117**
Onda, Sumitada *see* **Shiromizu, Tetsuya et al.**
Ozakin, Arkadas *see* **Gubser, Steven S., 2004k:83145**
Page, David C. (*with* Smith, Douglas J.) Giant gravitons in non-supersymmetric backgrounds. (English summary) **2004h:83089**
Pakman, Ari *see* **Giveon, Amit, 2004i:83122**
Pando Zayas, Leopoldo A. *see* **Marolf, Donald, 2004c:83130**
Panigrahi, Kamal L. *see* **Ohta, Nobuyoshi et al., 2004i:83133**
Papantonopoulos, Eleftherios Black holes on the brane with induced gravity. (English summary) **2004h:83090**
Paredes, Ángel *see* **Edelstein, José Daniel et al., 2004c:83118**
Parvizi, Shahrokh *see* **Alishahiha, Mohsen, 2004a:83067**
Pasti, P. (*with* Sorokin, D. P.; Tonin, M.) Superembeddings, branes and nonlinear realizations. (English summary) **2004g:83125**
Patricot, Christophe Kaigorodov spaces and their Penrose limits. (English summary) **2004e:83108**
Peet, Amanda W. *see* **Leblond, Frédéric, 2004e:83104**
Pelavas, N. *see* **Coley, Alan A. et al., 2004j:83125**
Perry, Malcolm Black holes and string theory.
— *see also* **Ng, Selena, 2004d:83084**
Pershin, Vladimir Interaction of higher spin massive fields with gravity in string theory. (English summary) **2004g:83126**
Petrini, Michela *see* **Kaste, Peter et al., 2004b:83132**
Petropoulos, P. Marios On AdS_3 string theory. (English summary) (*see* **2004d:81111**)
Petryk, Roman *see* **Choptuik, Matthew W. et al.**
Pinzul, A. (*with* Stern, Allen) Can classical wormholes stabilize the brane–anti-brane system? (English summary) **2004j:83132**
Pioline, Boris *see* **Kiritsis, Elias, 2004i:83128**
Piran, Tsvi *see* **Sorkin, Evgeny, 2004b:83136**
Pokotilov, Andriy *see* **Khuri, Ramzi R., 2004b:83133**
Pollock, M. D. Causality and supersymmetry in the superstring theory. (English summary) **2004g:83127**
Pope, C. N. *see* **Cvetič, Mirjam et al., 2004e:83095**
Pravda, V. *see* **Coley, Alan A. et al., 2004j:83125**
Pravdová, A. *see* **Coley, Alan A. et al., 2004j:83125**
Pretorius, Frans *see* **Choptuik, Matthew W. et al.**
Pujolàs, Oriol *see* **Flachi, Antonino et al., 2004k:83144**
Quevedo, Fernando Lectures on string/brane cosmology. (English summary) **2004e:83109**
— (*with* Tasinato, Gianmassimo; Zavala C., Ivonne) S-branes, negative tension branes and cosmology. (English summary) **2004h:83091**
— *see also* **Burgess, Clifford P. et al., 2004e:83093**; **2004j:83123**; **2004j:83124** *and* **Escoda, Cristina et al., 2004k:83141**
Rabinovici, Eliezer *see* **Elitzur, Shmuel et al., 2004c:83119** *and* **Barbón, José L. F., 2004e:83087**
Rajesh, Govindan *see* **Dasgupta, Keshav et al., 2004f:83082**
Ramallo, Alfonso V. *see* **Edelstein, José Daniel et al., 2004c:83118** *and* **Mas, Javier, 2004e:83106**
Ramírez, Toni *see* **Brugués, Jan et al., 2004a:83070**
Rangamani, Mukund *see* **Hubeny, Veronika E. et al., 2004b:83130**; **2004d:83081**; **2004i:83127** *and* **Gimon, Eric G. et al., 2004h:83083**
Redi, Michele Brane running and AdS/CFT. (English summary) **2004e:83110**
— *see also* **Bagger, Jonathan A., 2004k:83134**
Restuccia, A. *see* **Boulton, Lyonell S. et al., 2004b:83124** *and* **2004i:83119**
Rey, Soo-Jong *see* **Burgess, Clifford P. et al., 2004e:83093** *and* **Hikida, Yasuaki, 2004g:83118**
Ribault, Sylvain Two AdS_2 branes in the Euclidean AdS_3. (English summary) **2004e:83111**
Rivelles, Victor O. Quantization in AdS and the AdS/CFT correspondence. (English summary) **2004g:83128**
Robbins, Daniel *see* **Dasgupta, Keshav et al., 2004f:83082**
Roest, Diederik *see* **Bergshoeff, Eric et al., 2004e:83088**
Roy, Shibaji On supergravity solutions of space-like Dp-branes. (English summary) **2004c:83133**
— *see also* **Bhattacharya, Somdatta, 2004d:83079** *and* **2004m:83085**
Russo, Jorge G. Cosmological string models from Milne spaces and $SL(2,\mathbb{Z})$ orbifold. (English summary) **2004k:83152**
Ryang, Shijong String propagators in time-dependent and time-independent homogeneous plane waves. (English summary) **2004j:83133**
Sabra, Wafic A. *see* **Liu, James T., 2004i:83130**
Sadri, Darius (*with* Sheikh-Jabbari, Mohammad M.) String theory on parallelizable pp-waves. (English summary) **2004f:83089**
Saffin, P. M. *see* **Brecher, Dominic et al., 2004b:83125**
Sahakian, Vatche Holography with Ramond-Ramond fluxes. (English summary) **2004a:83074**
Sakagami, Masa-aki *see* **Kurita, Yasunari, 2004b:83134**
Sakai, Tadakatsu (*with* Sonnenschein, Jacob) Probing flavored mesons of confining gauge theories by supergravity. (English summary) **2004j:83134**
Samtleben, Henning *see* **Morales, José F., 2004b:83135** *and* **Bianchi, Massimo et al., 2004g:83113**
Sanchez, Norma G. Advances in string theory in curved backgrounds: a synthesis report. (English summary) (*see* **2004m:83002**)
Sanjay *see* **Ohta, Nobuyoshi et al., 2004i:83133**
Sati, Hisham *see* **Duff, Michael J. et al., 2004h:83080**
Sato, Matsuo (*with* Tsuchiya, Asato) Hamilton-Jacobi method and effective actions of D-brane and M-brane in supergravity. (English summary) **2004g:83129**
Satoh, Yuji (*with* Troost, Jan) Massless BTZ black holes in minisuperspace. (English summary) **2004a:83075**
— *see also* **Mizoguchi, Shun'ya et al., 2004d:83083**
Saxena, Ashish *see* **Lunin, Oleg et al., 2004i:83131**
Scherfner, Mike *see* **Obukhov, Yu. N. et al., 2004e:83107**
Schnitzer, Howard J. (*with* Wyllard, Niclas) An orientifold of $AdS_5 \times T^{11}$ with D7-branes, the associated α'^2-corrections and their role in the dual $\mathcal{N} = 1$ $Sp(2N+2M) \times Sp(2N)$ gauge theory. (English summary) **2004d:83086**
— *see also* **Naculich, Stephen G. et al., 2004k:83150**
Schomerus, Volker *see* **Gutperle, Michael et al., 2004a:83072** *and* **Fredenhagen, Stefan, 2004m:83091**
Schulz, Michael Brian *see* **Kachru, Shamit et al., 2004h:83086**
Schwarz, John H. *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
Sekino, Yasuhiro *see* **Ito, Katsushi, 2004h:83084**
Sethi, Savdeep *see* **Dasgupta, Keshav et al., 2004f:83082**
Sever, Amit *see* **Berkooz, Micha et al., 2004g:83112**
Sfetsos, Konstadinos The exact description of NS5-branes in the Penrose limit. (English summary) **2004f:83090**
— *see also* **Brandhuber, Andreas, 2004a:83069** *and* **Hernández, Rafael, 2004m:83093**
Sheikh-Jabbari, Mohammad M. *see* **Sadri, Darius, 2004f:83089**
Shimada, Hidehiko *see* **Dobashi, Suguru et al., 2004g:83115**
Shin, Hyeonjoon *see* **Kwon, O-Kab, 2004k:83149**
Shiromizu, Tetsuya (*with* Koyama, Kazuya) Low energy effective theory for a two branes system: covariant curvature formulation. (English summary) **2004f:83091**
— (*with* Koyama, Kazuya; Onda, Sumitada; Torii, Takashi[1]) Can we live on a D-brane? Effective theory on a self-gravitating D-brane. (English summary)
Shiu, Gary (*with* Tye, S.-H. Henry; Wasserman, Ira) Rolling tachyon in brane world cosmology from superstring field theory. (English summary) **2004g:83130**
Shomer, Assaf *see* **Berkooz, Micha et al., 2004g:83112**
Sieg, Christoph *see* **Dorn, Harald, 2004e:83099**
Siegel, Warren *see* **Lee, Kiyoung, 2004g:83122**
Silva, Pedro J. *see* **Gomis, Joaquim et al., 2004i:83124**
Silverstein, Eva *see* **Aharony, Ofer et al., 2004c:83112** *and* **Strominger, Andrew et al.**
Simón, Joan Supersymmetric worldvolume solitons. (English summary) (*see* **2004d:81111**)
Skenderis, Kostas (*with* Taylor, Marika) Branes in AdS and pp-wave spacetimes. (English summary) **2004d:83087**
Smith, Douglas J. *see* **Page, David C., 2004h:83089**
Snajdr, Martin *see* **Frolov, Valery P. et al.**
Sochichiu, Corneliu *see* **Bellucci, Stefano, 2004h:83078**
Solodukhin, S. N. *see* **de Boer, Jan, 2004i:83118**
Sommovigo, Luca Penrose limit of $AdS_3 \times S^3 \times S^3 \times S^1$ and its associated σ-model. (English summary) **2004h:83092**
Son, Dam Thanh *see* **Kovtun, Pavel et al., 2004j:83130**
Sonnenschein, Jacob *see* **Bakas, Ioannis, 2004c:83114** *and* **Sakai, Tadakatsu, 2004j:83134**
Sorkin, Evgeny (*with* Piran, Tsvi) Initial data for black holes and black strings in 5D. (English summary) **2004b:83136**
Sorokin, D. P. *see* **Pasti, P. et al., 2004g:83125**
Stanciu, Sonia (*with* Figueroa-O'Farrill, José) Penrose limits of Lie branes and a Nappi-Witten braneworld. (English summary) **2004m:83098**
Starinets, Andrei O. *see* **Kovtun, Pavel et al., 2004j:83130**
Stelle, Kellogg S. *see* **Cvetič, Mirjam et al., 2004e:83095** *and* **Lehners, Jean-Luc, 2004e:83105**
Stern, Allen *see* **Pinzul, A., 2004j:83132**
Stojković, Dejan *see* **Frolov, Valery P. et al.**
Strominger, Andrew (*with* Maloney, Alexander; Silverstein, Eva) De Sitter space in non-critical string theory.
— *see also* **Gomis, Jaume et al., 2004e:83101**

Sugawara, Yuji Thermal partition function of superstring on compactified pp-wave. (English summary) **2004d:83088**
Sugiyama, Katsuyuki *see* **Nakayama, Noriko et al., 2004k:83151**
Susskind, Leonard *see* **Goheer, Naureen et al., 2004i:83123**
Suyama, Takao (*with* Yi, Piljin) A holographic view on Matrix model of black hole. (English summary) **2004k:83153**
Swanson, Ian *see* **Callan, Curtis G., Jr. et al., 2004i:83121**
Takayanagi, Hiromitsu (*with* Takayanagi, Tadashi) Notes on giant gravitons on PP-waves. (English summary) **2004c:83134**
Takayanagi, Tadashi *see* **Takayanagi, Hiromitsu, 2004c:83134**
Tanaka, Takahiro *see* **Flachi, Antonino et al., 2004k:83144**
Tasinato, Gianmassimo *see* **Burgess, Clifford P. et al., 2004e:83093** *and* **Quevedo, Fernando et al., 2004h:83091**
Tatar, Radu *see* **Oh, Kyungho, 2004d:83085**
Taylor, Marika *see* **Skenderis, Kostas, 2004d:83087**
Tomasiello, Alessandro *see* **Kaste, Peter et al., 2004b:83132**
Tonin, M. *see* **Pasti, P. et al., 2004g:83125**
Torii, Takashi[1] *see* **Shiromizu, Tetsuya et al.**
Traschen, Jennie (*with* Fox, Daniel) Tension perturbations of black brane spacetimes. (English summary) **2004j:83135**
Trigiante, Mario *see* **D'Auria, Riccardo et al., 2004e:83096**
Trivedi, Sandip P. *see* **Kachru, Shamit et al., 2004h:83086**
Troost, Jan Winding strings and AdS_3 black holes. (English summary) **2004j:83136**
— *see also* **Satoh, Yuji, 2004a:83075**
Tseytlin, Arkady A. "Long" superstrings in $AdS_5 \times S^5$. (English summary) **2004g:83131**
— *see also* **Frolov, Sergei A., 2004g:83116**
Tsimpis, Dimitrios *see* **Howe, Paul S., 2004i:83126**
Tsuchiya, Asato *see* **Sato, Matsuo, 2004g:83129**
Tsujikawa, Shinji Construction of nonsingular cosmological solutions in string theories. (English summary) **2004k:83154**
Tye, S.-H. Henry *see* **Shiu, Gary et al., 2004g:83130** *and* **Firouzjahi, Hassan, 2004k:83143**
Uranga, Angel M. Local intersecting brane worlds. (English summary) **2004g:83132**
Vaidya, Sachindeo *see* **Gegenberg, Jack et al., 2004b:83129**
Van Proeyen, Antoine *see* **Gomis, Joaquim et al., 2004i:83124**
Vaulà, Silvia *see* **D'Auria, Riccardo et al., 2004b:83127** *and* **2004e:83096**
Vázquez-Poritz, J. F. *see* **Gegenberg, Jack et al., 2004b:83129**
Verlinde, Erik *see* **Hubeny, Veronika E. et al., 2004b:83130**
Villegas, Hugo *see* **Choptuik, Matthew W. et al.**
Volovich, Anastasia Holography for coset spaces. (English summary) (*see* **2004d:81111**)
Wadia, Spenta R. *see* **David, Justin R. et al., 2004c:83117**
Walcher, Johannes *see* **Buchel, Alex et al., 2004m:83087** *and* **2004m:83088**
Wang, John E. *see* **Chen, Chiang-Mei et al.**
Wang, Xiao-Jun (*with* Hu, Sen) Intersecting branes and adding flavors to the Maldacena-Nuñez background. (English summary) **2004j:83137**
Wasserman, Ira *see* **Shiu, Gary et al., 2004g:83130**
Wei, Yi Huan (*with* Zhang, Yuan Zhong; He, Feng) Static axisymmetric solutions with electric fields in low-energy string theory. (English summary) **2004d:83089**
West, Peter *see* **Englert, François et al., 2004h:83082**
Wiseman, Toby *see* **Kol, Barak, 2004e:83102**
Wu, Xinkai *see* **Lee, Hok Kong, 2004f:83086** *and* **Callan, Curtis G., Jr. et al., 2004i:83121**
Wyllard, Niclas *see* **Schnitzer, Howard J., 2004d:83086** *and* **Naculich, Stephen G. et al., 2004k:83150**
Yamaguchi, Masahide (*with* Yokoyama, Jun'ichi) Quantitative evolution of global strings from the Lagrangian viewpoint. (English summary)
Yamaguchi, Satoshi[2] *see* **Figueroa-O'Farrill, José et al., 2004k:83142**
Yavartanoo, Hossein *see* **Alishahiha, Mohsen et al., 2004m:83083**
Yee, Jung-Tay (*with* Yi, Piljin) Instantons of M(atrix) theory in PP-wave background. (English summary) **2004c:83135**
— *see also* **Kim, Nakwoo, 2004c:83129**
Yee, Ki Hyuk *see* **Kim, Sung-Won et al., 2004g:83120**
Yi, Piljin *see* **Yee, Jung-Tay, 2004c:83135** *and* **Suyama, Takao, 2004k:83153**
Yokoyama, Jun'ichi *see* **Yamaguchi, Masahide**
Yoneya, Tamiaki *see* **Dobashi, Suguru et al., 2004g:83115**
Yoshida, Kentaroh *see* **Nakayama, Noriko et al., 2004k:83151**
Zalaletdinov, R. M. *see* **Coley, Alan A. et al., 2004j:83125**
Zavala C., Ivonne *see* **Gómez-Reino, Marta, 2004c:83122**; **Burgess, Clifford P. et al., 2004e:83093** *and* **Quevedo, Fernando et al., 2004h:83091**
Zhang, Yuan Zhong *see* **Wei, Yi Huan et al., 2004d:83089**
Zoubos, Konstantinos Holography and quaternionic Taub-NUT. (English summary) **2004j:83138**

Items with secondary classifications in 83E30

Abel, Steven Adam (*with* Santiago, José; Masip, Manuel) Flavour changing neutral currents in intersecting brane models. (English summary) **2004e:81107**
— *see also* **Conference: String Phenomenology, 2004d:81001**
Abou-Zeid, Mohab (*with* Costa, Miguel S.) D-Branestrahlung. (English summary) (*see* **2004d:81111**)
Aghababaie, Yashar (*with* Burgess, Clifford P.; Parameswaran, Susha L.; Quevedo, Fernando) SUSY breaking and moduli stabilization from fluxes in gauged 6D supergravity. (English summary) **2004c:83136**
Alexander, Stephon H. S. Brane gas cosmology, M-theory and little string theory. (English summary) **2004k:81238**
Alexeyev, S. (*with* Barrau, A.; Boudoul, G.; Khovanskaya, O.; Sazhin, M.) Black-hole relics in string gravity: last stages of Hawking evaporation. (English summary) **2004d:83033**
Alishahiha, Mohsen (*with* Kumar, Alok[2]) pp-waves from nonlocal theories. (English summary) **2004i:81180**
— (*with* Sheikh-Jabbari, Mohammad M.; Tatar, Radu) Spacetime quotients, Penrose limits and restoration of conformal symmetry. (English summary) **2004b:81137**
— (*with* Ganjali, Mohammad A.; Ghodsi, Ahmad; Parvizi, Shahrokh) On type IIA string theory on the PP-wave background. (English summary) **2004f:81167**
Alonso-Alberca, Natxo (*with* Ortín, Tomás; Bergshoeff, Eric; Gran, Ulf; Linares, Román; Roest, Diederik) Domain walls of $D = 8$ gauged supergravities and their $D = 11$ origin. (English summary) **2004e:83112**
Álvarez, Enrique (*with* Conde, Jorge; Hernández, Lorenzo) Rudiments of holography. (English summary) **2004g:81174**
Andrianopoli, Laura (*with* D'Auria, Riccardo; Ferrara, Sergio; Lledó, Maria A.) $N = 2$ super-Higgs, $N = 1$ Poincaré vacua and quaternionic geometry. (English summary) **2004i:83134**
— (*with* D'Auria, Riccardo; Ferrara, Sergio; Lledó, Maria A.) 4-D gauged supergravity analysis of type-IIB vacua on $K3 \times T^2/\mathbb{Z}_2$. (English summary) **2004a:83076**
Angelantonj, Carlo (*with* Ferrara, Sergio; Trigiante, Mario) New $D = 4$ gauged supergravities from $\mathcal{N} = 4$ orientifolds with fluxes. (English summary) **2004m:83099**
— (*with* Antoniadis, Ignatios) Suppressing the cosmological constant in non-supersymmetric type I strings. (English summary) **2004j:81120**
— (*with* Ferrara, Sergio; Trigiante, Mario) Unusual gauged supergravities from type IIA and type IIB orientifolds. (English summary) **2004m:83100**
Anguelova, Lilia (*with* Lazaroiu, Calin I.) Domain walls of $N = 2$ supergravity in five dimensions from hypermultiplet moduli spaces. (English summary) **2004a:83077**
— (*with* Lazaroiu, Calin I.) Enhanced gauge symmetry from "toric" G_2 cones. (English summary) **2004m:81174**
— (*with* Lazaroiu, Calin I.) M-theory compactifications on certain "toric" cones of G_2 holonomy. (English summary) **2004g:81176**
Antoniadis, Ignatios (*with* Minasian, Ruben; Theisen, Stefan; Vanhove, Pierre) String loop corrections to the universal hypermultiplet. (English summary) **2004k:81243**
— *see also* **Angelantonj, Carlo, 2004j:81120**
Arapoglu, S. (*with* Deger, Nihat Sadik; Kaya, Ali) A note on supergravity solutions for partially localized intersecting branes. (English summary) **2004m:83101**
Arnowitt, R. (*with* Dent, James; Dutta, Bhaskar) Cosmology in Horava-Witten M-theory. (English summary) (*see* **2004d:81001**)
Arutyunov, Gleb E. (*with* Sokatchev, Emery) On a large N degeneracy in $\mathcal{N} = 4$ SYM and the AdS/CFT correspondence. (English summary) **2004f:81209**
— (*with* Dolan, F. A.; Osborn, Hugh; Sokatchev, Emery) Correlation functions and massive Kaluza-Klein modes in the AdS/CFT correspondence. (English summary) **2004i:81228**
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Bossard, A. (*with* Mohammedi, N.) Non-abelian T-duality in pre-big-bang cosmology. (English summary) **2004c:83154**

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Chaichian, Masud (*with* Chen, Wen-Feng) The holographic supercurrent anomaly. (English summary) **2004m:81231**

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DeBoer, Philip A. *see* **Brecher, Dominic et al., 2004k:81254**
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Delice, Ozgur Gravitational hedgehog, stringy hedgehog and stringy sphere. (English summary) **2004k:83019**
Denef, Frederik Quantum quivers and Hall/hole halos. (English summary) **2004b:81158**
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DeWolfe, Oliver (*with* Freedman, Daniel Z.; Ooguri, Hirosi) Holography and defect conformal field theories. (English summary) **2004a:81185**
— (*with* Giddings, Steven B.) Scales and hierarchies in warped compactifications and brane worlds. (English summary) **2004m:83073**
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Donos, Aristomenis *see* **de Mello Koch, Robert et al., 2004k:81303**
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Fabris, J. C. (*with* Furtado, R. G.; Peter, Patrick; Pinto-Neto, Nelson) Regular cosmological bouncing solutions in low energy effective action from string theories. (English summary) **2004h:83105**
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Ferrara, Sergio (*with* Porrati, Massimo) $N = 1$ no-scale supergravity from IIB orientifolds. (English summary) **2004b:83144**
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Floratos, Emmanuel *see* **Axenides, Minos et al., 2004d:81121**
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Ganjali, Mohammad A. *see* **Alishahiha, Mohsen et al., 2004f:81167**
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Giddings, Steven B. *see* **DeWolfe, Oliver, 2004m:83073**
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Gorbatov, Elie *see* **Banks, Tom et al.**
Gorkavenko, Volodymyr M. *see* **Sitenko, Yurii A., 2004e:81158**
Görlich, Lars *see* **Blumenhagen, Ralph et al., 2004d:81082**
Gowdigere, Chethan N. (*with* Warner, Nicholas P.) Flowing with eight supersymmetries in M-theory and F-theory. (English summary) **2004k:81274**
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Green, Paul S. *see* **Becker, Katrin et al., 2004h:81171**
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— M-theory on manifolds with exceptional holonomy. (English summary) **2004m:81192**
Guo, Han-Ying *see* **Chang, Zhe et al., 2004b:81150**
Guralnik, Zachary *see* **Constable, Neil R. et al., 2004g:81188**
Gurrieri, Sebastien (*with* Micu, Andrei) Type IIB theory on half-flat manifolds. (English summary) **2004c:81211**
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Gutowski, Jan B. (*with* Papadopoulos, George) Brane solitons for G_2 structures in eleven-dimensional supergravity revisited. (English summary) **2004c:83145**
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Haack, Michael *see* **Berg, Marcus et al., 2004c:81190**
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Halpern, Martin B. (*with* Helfgott, Craig) On the target-space geometry of open-string orientation-orbifold sectors. (English summary) **2004k:81277**
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Harvey, Jeffrey A. *see* **Gregory, Ruth, 2004j:83141**
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Headrick, Matthew *see* **Constable, Neil R. et al., 2004a:81180**
Helfgott, Craig *see* **Halpern, Martin B., 2004k:81277**
Herdeiro, Carlos A. R. The Kerr-Newman-Gödel black hole. (English summary) **2004j:83066**
Hernández, Lorenzo *see* **Álvarez, Enrique et al., 2004g:81174**
Herrera-Aguilar, Alfredo (*with* Kechkin, Oleg V.) Kalb-Ramond dipole solution in low-energy bosonic string theory. (English summary) **2004b:81164**
— The Harrison transformation and rotating interacting black holes. (English and Spanish summaries) **2004i:83071**
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— Sound of M theory. (English summary) **2004j:81139**
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Ho, Pei-Ming *see* **Hashimoto, Koji et al., 2004j:81138**
Horata, Shinichi *see* **Hamada, Ken-ji, 2004m:81194**
Hořava, Petr *see* **Boyda, Edward K. et al., 2004j:83078**
Horowitz, Gary T. *see* **Hertog, Thomas et al., 2004e:81137**
Hossain, M. *see* **Rahaman, F. et al.**
Hotta, Kenji Brane-antibrane systems at finite temperature and phase transition near the Hagedorn temperature. (English summary) **2004a:81194**
Hoyos, Carlos *see* **Barbón, José L. F., 2004m:81176**
Hu, Sen (*with* Wang, Xiao-Jun) On gauge-gravity correspondence and open-closed string duality. (English summary) (*see* **2004j:00020**)
Huang, Min-xin *see* **Balasubramanian, Vijay et al., 2004a:81218**
Hubeny, Veronika E. (*with* Rangamani, Mukund) Causal structures of pp-waves. (English summary) **2004b:83115**
— Precursors see inside black holes. (English summary)
Hull, Christopher M. Beyond geometry: gravity and M-theory above the Planck scale. (English summary) **2004g:81207**
— *see also* **Bachas, Constantin P., 2004k:81250**
Husain, Tasneem Zehra That's a wrap! (English summary) **2004g:81208**
— A brane teaser. (English summary) **2004m:81195**
Hyakutake, Yoshifumi D-brane anti-D-brane system in string theory. (English summary) **2004m:81196**
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Imeroni, Emiliano *see* **Di Vecchia, Paolo et al., 2004c:81199**
Intriligator, Ken *see* **Cachazo, Freddy et al., 2004d:81084**
Iofa, Mikhail Z. Dyonic black holes with string-loop corrections. (English summary) **2004m:83054**
Israël, Dan (*with* Kounnas, Costas; Petropoulos, P. Marios) Superstrings on NS5 backgrounds, deformed AdS_3 and holography. (English summary) **2004k:81286**
Ito, Katsushi *see* **Fuji, Hiroyuki et al., 2004a:81189**
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Janssen, Bert *see* **Gheerardyn, Jos, 2004a:81226**
Järv, Laur (*with* Johnson, Clifford V.) Rotating black holes, closed timelike curves, thermodynamics, and the enhançon mechanism. (English summary) **2004k:83069**
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Jevicki, Antal *see* **Das, Sumit R., 2004k:81266** *and* **de Mello Koch, Robert et al., 2004k:81303**
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— *see also* **Brecher, Dominic et al., 2004k:81253** *and* **Järv, Laur, 2004k:83069**
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Julia, Bernard U-opportunities: why is ten equal to ten? (English summary) **2004i:81098**
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Kechkin, Oleg V. *see* **Herrera-Aguilar, Alfredo, 2004b:81164**
Kehagias, Alex *see* **Axenides, Minos et al., 2004d:81121**
Kennaway, Kristian D. *see* **Corrado, Richard A. et al., 2004b:83142**
Kephart, Thomas W. *see* **Frampton, Paul H., 2004k:81270**
Ketov, Sergei V. (*with* Leonhardt, Thorsten; Rühl, Werner) Engineering a bosonic AdS/CFT correspondence. (English summary) **2004j:81141**
— Summing up D-instantons in $N = 2$ supergravity. (English summary) **2004b:83150**
— D-instantons and matter hypermultiplet. (English summary) **2004c:81216**
Khovanskaya, O. *see* **Alexeyev, S. et al., 2004d:83033**

Khoze, Valentin V. *see* **Chu, Chong-Sun et al., 2004d:81085; 2004e:81117; Georgiou, George et al., 2004e:81128** *and* **2004k:81363**
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Kim, Nakwoo Remarks on type IIB pp waves with Ramond-Ramond fluxes and massive two dimensional nonlinear sigma models. (English summary) **2004c:81273**
Kim, Yoonbai *see* **Kiem, Youngjai et al., 2004b:83151**
Kirsch, Ingo *see* **Constable, Neil R. et al., 2004g:81188**
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Kostov, Ivan K. Boundary correlators in 2D quantum gravity: Liouville versus discrete approach. (English summary) **2004d:83052**
Kounnas, Costas *see* **Israël, Dan et al., 2004k:81286**
Kovtun, Pavel *see* **Clark, Adam et al., 2004k:81261**
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Larsen, Finn *see* **Constable, Neil R., 2004i:81188**
Larsson, Henric An M-theory solution generating technique and $SL(2, \mathbb{R})$. (English summary) **2004c:81222**
Lazaroiu, Calin I. *see* **Anguelova, Lilia, 2004a:83077; 2004g:81176; 2004m:81174** *and* **Landsteiner, Karl, 2004e:81145**
Leblond, Frédéric *see* **Firouzjahi, Hassan, 2004f:83070**
Lechner, K. *see* **Cariglia, Marco, 2004e:83114**
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Leonhardt, Thorsten *see* **Ketov, Sergei V. et al., 2004j:81141**
Lerche, W. On the heterotic/F-theory duality in eight dimensions. (English summary) **2004g:81217**
(Lerda, Alberto) *see* **Supergravity and gauge theories**
Levi, Thomas S. *see* **Balasubramanian, Vijay et al., 2004a:81218**
Lewis, Matthew J. *see* **Freese, Katherine et al., 2004g:83095**
Liccardo, Antonella *see* **Di Vecchia, Paolo et al., 2004j:81130**
Lin, Feng-Li *see* **Chen, Bin[5] et al., 2004h:83097** *and* **2004m:81183**
Linares, Román *see* **Bergshoeff, Eric et al., 2004d:83091** *and* **Alonso-Alberca, Natxo et al., 2004e:83112**
Linde, Andrei *see* **Kallosh, Renata, 2004b:83149** *and* **2004f:83102**
Lindström, Ulf *see* **Bredthauer, Andreas et al., 2004c:81194**
Liu, James T. *see* **Cvetič, Mirjam et al., 2004a:81182** *and* **Duff, Michael J., 2004m:81186**
Lledó, Maria A. *see* **Andrianopoli, Laura et al., 2004a:83076** *and* **2004i:83134**
Lomholt, M. A. *see* **Larsen, A. L.**
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Lowe, David A. (*with* Nastase, Horatiu; Ramgoolam, Sanjaye) Massive IIA string theory and matrix theory compactification. (English summary) **2004m:81201**
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Lüst, Dieter *see* **Cardoso, Gabriel Lopes, 2004a:81169; Behrndt, Klaus et al., 2004c:81187** *and* **Faux, Michael et al., 2004j:81133**
Maeda, Kengo *see* **Hertog, Thomas et al., 2004e:81137**
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— Les Houches lectures on large N field theories and gravity. (English summary) **2004h:81199**
— Strings in flat space and plane waves from $\mathcal{N} = 4$ super Yang Mills. **2004k:81299**
— Eternal black holes in anti-de Sitter. (English summary) **2004e:83037**
— Non-Gaussian features of primordial fluctuations in single field inflationary models. (English summary) **2004e:83127**
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Marotta, Raffaele *see* **Di Vecchia, Paolo et al., 2004j:81130**
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— (*with* McElgin, Will) Exciting AdS orbifolds. (English summary) **2004k:81300**
Martucci, Luca *see* **Marolf, Donald et al., 2004f:81189** *and* **2004g:81222**
Masip, Manuel *see* **Abel, Steven Adam et al., 2004e:81107**
Mateos, David (*with* Mateos, Toni; Townsend, Paul Kingsley) Supersymmetry of tensionless rotating strings in $AdS_5 \times S^5$, and nearly-BPS operators. (English summary) **2004m:81205**
Mateos, Toni *see* **Mateos, David et al., 2004m:81205**
Mathur, Samir D. A proposal to resolve the black hole information paradox. (English summary) **2004e:83039**
Mazumdar, Anupam *see* **Frey, Andrew R., 2004c:81203**
McAllister, Liam *see* **Kachru, Shamit, 2004c:83099**
McElgin, Will *see* **Martinec, Emil J., 2004k:81300**
McGreevy, John Adding flavor to Dijkgraaf-Vafa. (English summary) **2004e:81150**
— *see also* **Fabinger, Michal, 2004g:81193**
McInnes, Brett The covariant entropy bound, brane cosmology, and the null energy condition. (English summary) **2004f:83105**
de Medeiros, P. F. (*with* Prem Kumar, S.) Spacetime Virasoro algebra from strings on zero radius AdS_3. (English summary) **2004k:81302**
Meessen, Patrick *see* **Bain, Pascal et al., 2004a:83078**
Mehen, Thomas (*with* Wecht, Brian) Gauge fields and scalars in rolling tachyon backgrounds. (English summary) **2004c:81223**
Meissner, Krzysztof A. *see* **Flak, Marcin P., 2004h:83072**
de Mello Koch, Robert (*with* Donos, Aristomenis; Jevicki, Antal; Rodrigues, João P.) Derivation of string field theory from the large N Berenstein-Maldacena-Nastase limit. (English summary) **2004k:81303**
Merlatti, Paolo $\mathcal{N} = 1$ super Yang-Mills theories and wrapped branes. (English summary) **2004h:81238**
— *see also* **Bertolini, Matteo, 2004f:81213**
Metsaev, R. R. Light-cone approach to eleven dimensional supergravity. (English summary) **2004e:83118**
Michelson, Jeremy (Twisted) toroidal compactification of pp waves. (English summary) **2004a:81202**
Micu, Andrei *see* **Gurrieri, Sebastien et al., 2004c:81211** *and* **2004m:81193**
Mikhailov, Andrei Speeding strings. (English summary) **2004m:81206**
— *see also* **Gross, David J. et al., 2004j:81174**
Minahan, Joseph A. Circular semiclassical string solutions on $AdS_5 \times S_5$. (English summary) **2004j:81148**
— *see also* **Engquist, Johan et al., 2004k:81361**
Minasian, Ruben *see* **Kaste, Peter et al., 2004g:81211; 2004m:81197** *and* **Antoniadis, Ignatios et al., 2004k:81243**
Minic, Djordje *see* **Jejjala, Vishnu et al., 2004i:83158**
Minwalla, Shiraz *see* **Constable, Neil R. et al., 2004a:81180**
Mitra, Indrajit[2] *see* **Gubser, Steven S., 2004g:81201**
Mizoguchi, Shun'ya (*with* Mogami, Takeshi; Satoh, Yuji) A note on T-duality of strings in plane-wave backgrounds. (English summary) **2004i:81203**
Mkrtchyan, H. (*with* Mkrtchyan, Ruben) Little groups of preon branes. (English summary) **2004k:81304**
Mkrtchyan, Ruben *see* **Mkrtchyan, H., 2004k:81304**
Modesto, Leonardo *see* **Fré, Pietro, 2004b:81161**
Mogami, Takeshi *see* **Mizoguchi, Shun'ya et al., 2004i:81203**
Mohammedi, N. *see* **Bossard, A., 2004c:83154**
Mohaupt, Thomas *see* **Louis, Jan et al., 2004d:81099**
Moriyama, Sanefumi *see* **Lee, Peter Byungho et al., 2004f:81185** *and* **Gomis, Jaume et al., 2004i:81193**

Moschella, Ugo Anti-de Sitter quantum field theory and the AdS-CFT correspondence. (English summary) **2004j:81097**
Motl, Luboš (*with* Neitzke, Andrew; Sheikh-Jabbari, Mohammad M.) Heterotic plane wave Matrix models and giant gluons. (English summary) **2004f:81190**
Moura, Filipe Four dimensional supersymmetrization of $\mathbf{R}^4$. (English summary) (*see* **2004m:83003**)
Mourad, J. *see* **Dudas, Emilian et al.**, (**2004m:83003**)
Mück, Wolfgang Holographic renormalization and Ward identities with the Hamilton-Jacobi method. (English summary) **2004g:81156**
— *see also* **Martelli, Dario**, **2004c:81167**
Mukohyama, Shinji Inhomogeneous tachyon decay, light-cone structure, and D-brane network problem in tachyon cosmology. (English summary) **2004a:83092**
Myers, Robert C. *see* **Brecher, Dominic et al.**, **2004k:81253**
Nagaoka, Satoshi *see* **Hashimoto, Koji et al.**, **2004j:81138**
Naik, Satchidananda The sigma model formulation of type II string theory in the $AdS_5 \times S_5$ backgrounds with Ramond-Ramond flux. (English summary) **2004d:81102**
Naqvi, Asad *see* **Balasubramanian, Vijay et al.**, **2004a:81218**
Narain, Kumar S. *see* **Gava, Edi**, **2004k:81273**
Nastase, Horatiu *see* **Lowe, David A. et al.**, **2004m:81201**
Nayak, Rashmi R. (*with* Panigrahi, Kamal L.) More D-branes in plane wave spacetime. (English summary) **2004m:81211**
Neitzke, Andrew *see* **Motl, Luboš et al.**, **2004f:81190**
(Nekrasov, Nikita A.) *see* **Unity from duality: gravity, gauge theory and strings**, **2004d:81004**
Nesterov, D. V. *see* **Barvinskiĭ, A. O.**, **2004i:83099**
Neupane, Ishwaree P. Black hole entropy in string-generated gravity models. (English summary)
Niarchos, Vasilis (*with* Prezas, Nikolaos) BMN operators for $\mathcal{N} = 1$ superconformal Yang-Mills theories and associated string backgrounds. (English summary) **2004f:81224**
Nielsen, Mikkel *see* **Gran, Ulf**, **2004e:83115** *and* **Cederwall, Martin et al.**, **2004g:83138**
Nieto, J. A. (*with* Marín, M. C.) Search for a "gravitoid" theory. (English summary) **2004k:83162**
van Nieuwenhuizen, Peter *see* **Grassi, Pietro A. et al.**, **2004c:81285**
Nilles, Hans Peter *see* **Ghilencea, D. M. et al.**, **2004d:81093**
Nilsson, Bengt E. W. *see* **Cederwall, Martin et al.**, **2004g:83138**
Nitta, Muneto *see* **Clark, Thomas E. et al.**
Nojiri, Shin'ichi (*with* Odintsov, Sergei D.) Quantum effects in a five-dimensional brane-world: creation of de Sitter branes and particles and stabilization of the induced cosmological constant. (English summary) **2004f:83074**
Nolland, David *see* **Mansfield, Paul et al.**, **2004f:81188** *and* **2004f:81207**
Núñez, Carlos (*with* Paredes, Ángel; Ramallo, Alfonso V.) Flavoring the gravity dual of $\mathcal{N} = 1$ Yang-Mills with probes. (English summary) **2004k:81378**
— Dualities between gauge and supergravity/string theories. (English summary) (*see* **2004m:83003**)
— *see also* **Gürsoy, Umut et al.**, **2004f:81179**; **Hartnoll, Sean A.**, **2004g:81204** *and* **Burgess, Clifford P. et al.**, **2004h:83096**
Obers, Niels A. *see* **Harmark, Troels**, **2004g:81203** *and* **2004g:83053**
Odintsov, Sergei D. *see* **Nojiri, Shin'ichi**, **2004f:83074**
Oh, Kyungho *see* **Dasgupta, Keshav et al.**, **2004a:81183**
Ohta, Nobuyoshi Introduction to branes and M-theory for relativists and cosmologists. (English summary) **2004k:81309**
— Intersection rules for S-branes. (English summary) **2004b:81183**
Ooguri, Hirosi *see* **DeWolfe, Oliver et al.**, **2004a:81185**
Orselli, Marta *see* **Grignani, Gianluca et al.**, **2004e:81133**
Ortín, Tomás *see* **Alonso-Alberca, Natxo et al.**, **2004c:83112**
Osborn, Hugh *see* **Arutyunov, Gleb E. et al.**, **2004i:81228**
Ott, Tassilo *see* **Blumenhagen, Ralph et al.**, **2004d:81082**
Ouyang, Hua Jiang *see* **Klebanov, Igor R. et al.**, **2004k:81291**
Ovrut, Burt A. *see* **Faux, Michael et al.**, **2004j:81133** *and* **Donagi, Ron et al.**, **2004k:14066**
Oz, Yaron Aspects of tachyon condensation in string theory. (English summary) **2004d:81106**
— (*with* Sakai, Tadakatsu) Exact anomalous dimensions for $\mathcal{N} = 2$ *ADE* SCFTs. (English summary) **2004b:81190**
Page, David C. *see* **Brecher, Dominic et al.**, **2004k:81254**
Pakis, Stathis *see* **Gauntlett, Jerome P. et al.**, **2004i:83139** *and* **2004m:83104**
Pakman, Ari Unitarity of supersymmetric $SL(2, \mathbb{R})/U(1)$ and no-ghost theorem for fermionic strings in $AdS_3 \times \mathcal{N}$. (English summary) **2004f:81191**
Pando Zayas, Leopoldo A. (*with* Vaman, Diana) Strings in the Ramond-Ramond plane wave background at finite temperature. (English summary) **2004g:81227**
— *see also* **Gimon, Eric G. et al.**, **2004g:81159** *and* **Buchel, Alex**, **2004j:81168**
Panigrahi, Kamal L. (*with* Sanjay) D-branes in pp-wave spacetime with nonconstant NS-NS flux. (English summary) **2004d:81107**
— *see also* **Nayak, Rashmi R.**, **2004m:81211**
Pankiewicz, Ari (*with* Theisen, Stefan) Introductory lectures on string theory and the ADS/CFT correspondence. (English summary) **2004h:81201**
— An alternative formulation of light-cone string field theory on the plane wave. (English summary) **2004e:81151**
Pantev, Tony *see* **Donagi, Ron et al.**, **2004k:14066**
Papadopoulos, George (*with* Russo, Jorge G.; Tseytlin, Arkady A.) Solvable model of strings in a time-dependent plane-wave background. (English summary) **2004j:81149**
— *see also* **Gutowski, Jan B.**, **2004c:83145**
Parameswaran, Susha L. *see* **Aghababaie, Yashar et al.**, **2004c:83136**
Paredes, Ángel *see* **Edelstein, José Daniel et al.**, **2004d:83093** *and* **Núñez, Carlos et al.**, **2004k:81378**
Parikh, Maulik K. (*with* Savonije, Ivo; Verlinde, Erik) Elliptic de Sitter space: $dS/\mathbb{Z}_2$. (English summary) **2004j:83025**
Park, Jaemo *see* **Kiem, Youngjai et al.**, **2004b:83151**
Park, Jeong-Hyuck *see* **Hyun, Seungjoon et al.**, **2004c:81271**
Park, Jongwon *see* **Lee, Peter Byungho et al.**, **2004b:81177**; **2004f:81185** *and* **Gomis, Jaume et al.**, **2004i:81193**
Parvizi, Shahrokh *see* **Alishahiha, Mohsen et al.**, **2004f:81167**
Peeters, K. *see* **Bain, Pascal et al.**, **2004g:81180**
Persson, Jonas *see* **Bredthauer, Andreas et al.**, **2004c:81194**
(Pesando, Igor) *see* **Supergravity and gauge theories**
Pestun, Vasily (*with* Zarembo, Konstantin) Comparing strings in $AdS_5 \times S^5$ to planar diagrams: an example. (English summary) **2004e:81194**
Peter, Patrick *see* **Fabris, J. C. et al.**, **2004h:83105**
Petrini, Michela *see* **Kaste, Peter et al.**, **2004g:81211** *and* **Chu, Chong-Sun et al.**
Petropoulos, P. Marios *see* **Israël, Dan et al.**, **2004k:81286**
Pezzella, Franco *see* **Di Vecchia, Paolo et al.**, **2004j:81130**
(Picco, Marco) *see* **Progress in string theory and M-theory**, **2004d:81111**
Pinto-Neto, Nelson *see* **Fabris, J. C. et al.**, **2004h:83105**
Pioline, Boris *see* **Gutperle, Michael**, **2004j:83100**
Plefka, Jan Christoph Vertex operators for the supermembrane and background field matrix theory. (English summary) **2004g:81229**
— Lectures on the plane-wave string/gauge theory duality. (English summary)
— *see also* **Kristjansen, C. et al.**, **2004a:81227**
(Plümacher, M.) *see* **Conference: String Phenomenology**, **2004d:81001**
Polchinski, Joseph M theory and black hole quantum mechanics.
— *see also* **Graña, Mariana**, **2004e:81181**
Policastro, Giuseppe (*with* Son, Dam Thanh; Starinets, Andrei O.) From AdS/CFT correspondence to hydrodynamics. II. Sound waves. (English summary) **2004b:81218**
— *see also* **Grassi, Pietro A. et al.**, **2004c:81285**
Pope, C. N. *see* **Cvetič, Mirjam et al.**, **2004a:81182**; **2004c:81198**; **2004i:83137**; **2004k:81264** *and* **Lü, Hong[1] et al.**, **2004f:83094**
Porrati, Massimo (*with* Starinets, Andrei O.) Holographic duals of 4D field theories. (English summary) **2004b:81219**
— *see also* **Ferrara, Sergio**, **2004b:83144**
Prem Kumar, S. *see* **de Medeiros, P. F.**, **2004k:81302**
Prezas, Nikolaos *see* **Niarchos, Vasilis**, **2004f:81224**
Prokushkin, S. F. *see* **Becker, Katrin et al.**, **2004i:81184**
Quevedo, Fernando *see* **Burgess, Clifford P. et al.**, **2004c:81196**; **2004h:83096** *and* **Aghababaie, Yashar et al.**, **2004c:83136**
Rabadán, Raúl (*with* Zamora, Frederic) Dilaton tadpoles and D-brane interactions in compact spaces. (English summary) **2004a:81205**
— (*with* Shiu, Gary) (Re)constructing dimensions. (English summary) **2004e:83082**
Rabinovici, Eliezer *see* **Giveon, Amit et al.**, **2004h:81193**
Raeymaekers, Joris *see* **Dabholkar, Atish**, **2004k:81265**
Rahaman, F. (*with* Chakraborty, Subenoy; Hossain, M.; Begum, N.; Das, S.) String cosmology in the Lyra geometry. (English summary)
Rahmfeld, J. Superspace: bulk vs. boundary. (English summary) **2004h:81220**
Rajaraman, Arvind *see* **Kumar, Jason**, **2004g:83141**
Ramallo, Alfonso V. *see* **Edelstein, José Daniel et al.**, **2004d:83093** *and* **Núñez, Carlos et al.**, **2004k:81378**
Ramgoolam, Sanjaye *see* **Lowe, David A. et al.**, **2004m:81201**
Ramond, Pierre Adventures in eleven dimensions. (English summary)
Ramon Medrano, M. (*with* Sanchez, Norma G.) New dual relations between quantum field theory and string regimes in curved backgrounds. (English summary) **2004i:81207**
Randjbar-Daemi, Seif (*with* Shaposhnikov, Mikhail) QED from six-dimensional vortex and gauge anomalies. (English summary) **2004d:81157**
Rangamani, Mukund *see* **Hubeny, Veronika E.**, **2004b:83115**
Rashkov, R. C. *see* **Dimov, H. et al.**, **2004k:81267**
Rasmussen, Jørgen *see* **Belhaj, Adil et al.**, **2004j:81126**
Redi, Michele *see* **Delgado, Antonio**, **2004d:81089**
Rehren, K.-H. *see* **Dütsch, M.**, **2004a:81170**
Reinbacher, René *see* **Donagi, Ron et al.**, **2004k:14066**
Rey, Soo-Jong (*with* Sugimoto, Shigeki) Rolling tachyon with electric and magnetic fields: T-duality approach. (English summary) **2004f:81192**
Rodrigues, João P. *see* **de Mello Koch, Robert et al.**, **2004k:81303**
Roest, Diederik *see* **Bergshoeff, Eric et al.**, **2004d:83091** *and* **Alonso-Alberca, Natxo et al.**, **2004e:83112**
Roiban, Radu *see* **Bena, Iosif**, **2004h:83093** *and* **Gross, David J. et al.**, **2004j:81174**
Roy, Shibaji Accelerating cosmologies from M/string theory compactifications. (English summary)
— *see also* **Bhattacharya, Somdatta**, **2004h:81175**
Rozali, Moshe *see* **Brecher, Dominic et al.**, **2004k:81254**
Rühl, Werner *see* **Ketov, Sergei V. et al.**, **2004j:81141**
Russo, Jorge G. Anomalous dimensions in gauge theories from rotating strings in $AdS_5 \times S^5$. (English summary) **2004d:81135**
— *see also* **Papadopoulos, George et al.**, **2004j:81149**
Russo, Rodolfo *see* **Chu, Chong-Sun et al.**
Ryang, Shijong Rotating and orbiting strings in the near-horizon brane backgrounds. (English summary) **2004e:81155**
— Penrose limits of branes and marginal intersecting branes. (English summary) **2004b:81185**
Ryou, Cheol *see* **Kiem, Youngjai et al.**, **2004b:83151**
Saffin, P. M. *see* **Brecher, Dominic**, **2004h:81181**
Sahraoui, El Mostapha (*with* Saidi, El Hassan) Metrics building of pp-wave orbifold geometries. (English summary) **2004c:81232**
Saidi, El Hassan *see* **Sahraoui, El Mostapha**, **2004c:81232**
Sakaguchi, Makoto (*with* Yoshida, Kentaroh) M-theory on a time-dependent plane-wave. (English summary) **2004k:81312**
— (*with* Yoshida, Kentaroh) D-branes of covariant AdS superstrings. (English summary) **2004m:81215**
Sakai, Tadakatsu *see* **Oz, Yaron**, **2004b:81190**
Samtleben, Henning *see* **Berg, Marcus et al.**, **2004c:81190**
Sanchez, Norma G. Classical and quantum strings in plane waves, shock waves and space-time singularities: synthesis and new results. (English summary) **2004k:81313**
— *see also* **Ramon Medrano, M.**, **2004i:81207**
Sanjay *see* **Panigrahi, Kamal L.**, **2004d:81107**
Santiago, José *see* **Abel, Steven Adam et al.**, **2004e:81107**

Sato, Matsuo (*with* Tsuchiya, Asato) Born-Infeld action from supergravity. (English summary) **2004h:81206**
Sato, Takeshi[1] D-brane dynamics and creations of open and closed strings after recombination. (English summary) **2004k:81314**
Satoh, Yuji (*with* Troost, Jan) On time-dependent AdS/CFT. (English summary) **2004h:81207**
— *see also* **Mizoguchi, Shun'ya et al., 2004i:81203**
Savonije, Ivo *see* **Parikh, Maulik K. et al., 2004j:83025**
Sazhin, M. *see* **Alexeyev, S. et al., 2004d:83033**
van der Schaar, Jan Pieter *see* **Freese, Katherine et al., 2004g:83095**
Schäfer-Nameki, Sakura *see* **Gaberdiel, Matthias R. et al., 2004k:81272**
Schulz, Michael Brian *see* **Kachru, Shamit et al., 2004k:81287**
Schvellinger, Martin *see* **Gürsoy, Umut et al., 2004f:81179**
Schwarz, John H. Recent progress in superstring theory. (English summary) **2004g:81231**
Schwimmer, Adam (*with* Theisen, Stefan) Universal features of holographic anomalies. (English summary) **2004k:81349**
(Sciuto, Stefano) *see* **Supergravity and gauge theories**
Seahra, Sanjeev S. (*with* Wesson, Paul S.) Application of the Campbell-Magaard theorem to higher-dimensional physics. (English summary) **2004c:53127**
Sekino, Yasuhiro *see* **Fuji, Hiroyuki et al., 2004a:81189** *and* **Asano, Masako et al., 2004k:81247**
Semenoff, Gordon W. (*with* Zarembo, Konstantin) Wilson loops in SYM theory: from weak to strong coupling. (English summary) **2004e:81197**
— *see also* **Kristjansen, C. et al., 2004a:81227** *and* **Grignani, Gianluca et al., 2004e:81133**
Sen, Ashoke An introduction to duality symmetries in string theory. (English summary) **2004i:81208**
— Time and tachyon. (English summary) **2004k:81316**
Sever, Amit *see* **Giveon, Amit et al., 2004h:81193**
Sezgin, E. *see* **Lü, Hong**[1] **et al., 2004f:83094**
Shaposhnikov, Mikhail *see* **Randjbar-Daemi, Seif, 2004d:81157**
Sheikh-Jabbari, Mohammad M. *see* **Alishahiha, Mohsen et al., 2004b:81137**; **Bak, Dongsu, 2004b:81141** *and* **Motl, Luboš et al., 2004f:81190**
Shin, Hyeonjoon (*with* Sugiyama, Katsuyuki; Yoshida, Kentaroh) Partition function and open/closed string duality in type IIA string theory on a pp-wave. (English summary) **2004h:81211**
— *see also* **Hyun, Seungjoon, 2004d:81097**
Shiu, Gary Tachyon dynamics and brane cosmology. (English summary) (*see* **2004d:81001**)
— *see also* **Rabadán, Raúl, 2004e:83082**
Shomer, Assaf Penrose limit and discrete light cone quantization of string theory. (English summary) **2004k:81319**
Silva, Pedro J. *see* **Marolf, Donald et al., 2004f:81189**; **2004g:81222** *and* **Caldarelli, Marco M., 2004k:81256**
Simón, Joan *see* **Figueroa-O'Farrill, José, 2004g:81196**
Singleton, Douglas Alexander *see* **Gogberashvili, Merab, 2004m:81191**
Sinha, Aninda *see* **Gaberdiel, Matthias R. et al., 2004k:81272**
Sinkovics, Annamaria *see* **de Haro, Sebastian et al., 2004d:83094**
Sitenko, Yurii A. (*with* Gorkavenko, Volodymyr M.) Induced vacuum energy-momentum tensor in the background of a $(d-2)$-brane in $(d+1)$-dimensional space-time. (English summary) **2004e:81158**
Skenderis, Kostas *see* **de Haro, Sebastian et al., 2004d:83094**
Skinner, David Inflation and Kähler stabilization of the dilaton. (English summary)
Smith, Douglas J. Intersecting brane solutions in string and M-theory. (English summary) **2004g:81235**
Sokatchev, Emery *see* **Arutyunov, Gleb E. et al., 2004f:81209** *and* **2004i:81228**
Son, Dam Thanh *see* **Policastro, Giuseppe et al., 2004b:81218** *and* **Herzog, Christopher P., 2004c:81212**
Sonnenschein, Jacob *see* **Gimon, Eric G. et al., 2004g:81159**
Sparks, James *see* **Gukov, Sergei et al., 2004c:81210**
Spradlin, Marcus (*with* Volovich, Anastasia) Superstring interactions in a pp-wave background. II. (English summary) **2004c:81238**
Stahn, Christian *see* **Green, Michael B., 2004j:81136**
Starinets, Andrei O. *see* **Policastro, Giuseppe et al., 2004b:81218** *and* **Porrati, Massimo, 2004b:81219**
Staudacher, Matthias *see* **Kristjansen, C. et al., 2004a:81227**
Stewart, Ewan D. *see* **Kadota, Kenji**
Stieberger, Stephan *see* **Ghilencea, D. M. et al., 2004d:81093**
Stoica, Horace *see* **Jones, Nicholas T. et al., 2004b:83116**
Sugawara, Yuji Thermal amplitudes in DLCQ superstrings on pp-waves. (English summary) **2004a:81207**
Sugimoto, Shigeki *see* **Rey, Soo-Jong, 2004f:81192** *and* **Asakawa, Tsuguhiko et al., 2004j:81122**
Sugiyama, Katsuyuki *see* **Shin, Hyeonjoon et al., 2004h:81211**
Suryanarayana, Nemani V. The holographic dual of a SUSY vector model and tensionless open strings. (English summary) **2004f:81194**
Takayanagi, Tadashi *see* **Harmark, Troels, 2004j:81137**
Tan, Chung-I *see* **Brower, Richard C. et al., 2004c:81195**
Tanzini, Alessandro *see* **Chu, Chong-Sun et al.**
Tasinato, Gianmassimo *see* **Burgess, Clifford P. et al., 2004c:81196** *and* **2004h:83096**
Tatar, Radu *see* **Dasgupta, Keshav et al., 2004a:81183** *and* **Alishahiha, Mohsen et al., 2004b:81137**
Terashima, Seiji *see* **Asakawa, Tsuguhiko et al., 2004j:81122**
Theisen, Stefan *see* **Pankiewicz, Ari, 2004h:81201**; **Antoniadis, Ignatios et al., 2004k:81243** *and* **Schwimmer, Adam, 2004k:81349**
Timirgaziu, C. *see* **Dudas, Emilian et al., (2004m:83003)**
Tomasiello, Alessandro *see* **Kaste, Peter et al., 2004g:81211** *and* **2004m:81197**
Tong, David *see* **Gukov, Sergei et al., 2004c:81210**
Townsend, Paul Kingsley The story of M.
— *see also* **Gomis, Joaquim et al., 2004c:81205** *and* **Mateos, David et al., 2004m:81205**
Trancanelli, Diego *see* **Grignani, Gianluca et al., 2004e:81133**
Travaglini, Gabriele *see* **Chu, Chong-Sun et al., 2004e:81117** *and* **Georgiou, George et al., 2004k:81363**
Trigiante, Mario *see* **Angelantonj, Carlo et al., 2004m:83099** *and* **2004m:83100**
Tripathy, Prasanta K. *see* **Kachru, Shamit et al., 2004k:81287**
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— On semiclassical approximation and spinning string vertex operators in $AdS_5 \times S^5$. (English summary) **2004f:81196**
— *see also* **Fotopoulos, Angelo, 2004e:81126**; **Frolov, Sergei A., 2004j:81134** *and* **Papadopoulos, George et al., 2004j:81149**
Tsuchiya, Asato *see* **Sato, Matsuo, 2004h:81206**
Tye, S.-H. Henry *see* **Jones, Nicholas T. et al., 2004b:83116**
Ueno, Tatsuya *see* **Mansfield, Paul et al., 2004f:81188** *and* **2004f:81207**
Uvarov, Dmitriy V. New superembeddings for type-II superstrings. (English summary) **2004d:81109**
Uzan, Jean-Philippe *see* **Carter, Brandon et al., 2004e:81114**
Uzawa, Kunihito (*with* Yoshida, Kentaroh) Effective potential in pp-wave geometry. (English summary) **2004m:81219**
Vachaspati, Tanmay Symmetries within domain walls. (English summary) **2004h:81215**
Vafa, Cumrun *see* **Cachazo, Freddy et al., 2004d:81084**
Vagenas, Elias C. 2d stringy black holes and varying constants. (English summary) **2004g:83073**
Vaman, Diana *see* **Pando Zayas, Leopoldo A., 2004g:81227**
Vanhove, Pierre *see* **Antoniadis, Ignatios et al., 2004k:81243**
Van Proeyen, Antoine *see* **Dvali, Gia et al., 2004m:81187**
Varadarajan, Uday *see* **Boyda, Edward K. et al., 2004j:83078**
Vasil'ev, M. A. *see* **Konshteĭn, S. E. et al., 2004g:81246**
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— *see also* **Cucu, S. et al.**
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Veneziano, Gabriele *see* **Gasperini, M., 2004b:83159**
Verlinde, Erik *see* **Parikh, Maulik K. et al., 2004j:83025**
Vilenkin, Alexander *see* **Dvali, Gia, 2004b:81160**
Viswanathan, Kadayam Sankaran *see* **Dimov, H. et al., 2004k:81267**
Volovich, Anastasia *see* **Spradlin, Marcus, 2004c:81238**
Waldram, Daniel *see* **Gurrieri, Sebastien et al., 2004m:81193**
Waldron, Andrew *see* **Deser, Stanley, 2004h:83098**
Wang, John E. *see* **Hashimoto, Koji et al., 2004j:81138**
Wang, Shiliang *see* **Jing, Jiliang, 2004b:81167**
Wang, Xiao-Jun *see* **Hu, Sen, (2004j:00020)**
Warner, Nicholas P. *see* **Corrado, Richard A. et al., 2004b:83142** *and* **Gowdigere, Chethan N., 2004k:81274**
Watson, Gary Scott (*with* Brandenberger, Robert) Linear perturbations in brane gas cosmology. (English summary)
Wecht, Brian *see* **Mehen, Thomas, 2004c:81223**
Wesson, Paul S. *see* **Seahra, Sanjeev S., 2004c:53127**
(Windey, Paul) *see* **Progress in string theory and M-theory, 2004d:81111**
Wiseman, Toby Static axisymmetric vacuum solutions and non-uniform black strings. (English summary) **2004e:83083**
— From black strings to black holes. (English summary) **2004e:83046**
de Wit, Bernard Supergravity. **2004i:83144**
de Wit, Tim C. *see* **Bergshoeff, Eric et al., 2004d:83091**
Witten, Edward Singularities in string theory. (English summary) **2004g:81238**
— The past and future of string theory.
— *see also* **Atiyah, Michael Francis, 2004f:53046**
Wohlfarth, Mattias N. R. *see* **Gomis, Joaquim et al., 2004c:81205**
Yamada, Daisuke *see* **Clark, Adam et al., 2004k:81261**
Yamaguchi, Satoshi[2] AdS branes corresponding to superconformal defects. (English summary) **2004f:81198**
— *see also* **Hikida, Yasuaki, 2004c:81213**
Yang, Hyun Seok *see* **Kim, Jongwook et al., 2004j:81143**
Yi, Sang-Heon *see* **Hyun, Seungjoon et al., 2004c:81271**
Yoneya, Tamiaki String theory and gravitation—towards quantum geometry. (English summary) **2004k:83083**
— *see also* **Asano, Masako et al., 2004k:81247**
Yoshida, Kentaroh *see* **Shin, Hyeonjoon et al., 2004h:81211**; **Sakaguchi, Makoto, 2004k:81312**; **2004m:81215** *and* **Uzawa, Kunihito, 2004m:81219**
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Zaffaroni, Alberto[1] Gravity in anti-de-Sitter space and quantum field theory. (English summary) **2004m:83082**
Zagermann, Marco *see* **Louis, Jan et al., 2004d:81099**
Zaikin, V. N. *see* **Konshteĭn, S. E. et al., 2004g:81246**
Zamaklar, M. *see* **Bain, Pascal et al., 2004a:83078** *and* **2004g:81180**
Zamora, Frederic *see* **Rabadán, Raúl, 2004a:81205**
Zarembo, Konstantin *see* **Pestun, Vasily, 2004e:81194**; **Semenoff, Gordon W., 2004e:81197** *and* **Engquist, Johan et al., 2004k:81361**
Zavala C., Ivonne *see* **Burgess, Clifford P. et al., 2004c:81196** *and* **2004h:83096**
Zhou, Jian-Ge pp-wave string interactions from the string bit model. (English summary) **2004c:81243**

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83E50 Supergravity

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Andrianopoli, Laura $N = 2 \to N = 1$ supergravity reduction in four dimensions. (English summary) **2004c:83137**
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Arai, Masato (*with* Fujita, Shigeo; Naganuma, Masashi; Sakai, Norisuke) Wall solution with weak gravity limit in five-dimensional supergravity. (English summary) **2004b:83140**
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Bain, Pascal (*with* Meessen, Patrick; Zamaklar, M.) Supergravity solutions for D-branes in Hpp-wave backgrounds. (English summary) **2004a:83078**
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Bars, Itzhak Mysterious zero in $AdS_5 \times S^5$ supergravity. (English summary) **2004a:83079**
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— (*with* Mahapatra, Swapna) de Sitter vacua from $N = 2$ gauged supergravity. (English summary) **2004m:83102**
Belyaev, Dmitry V. *see* **Bagger, Jonathan A., 2004e:83113**
Bena, Iosif (*with* Roiban, Radu) Supergravity pp-wave solutions with 28 and 24 supercharges. (English summary) **2004h:83093**
Bergamin, Luzi (*with* Grumiller, Daniel; Kummer, Wolfgang) Supersymmetric black holes in 2D dilaton supergravity: baldness and extremality. (English summary) **2004m:83103**
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— *see also* **Alonso-Alberca, Natxo et al., 2004c:83112**
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Burgess, Clifford P. (*with* Núñez, Carlos; Quevedo, Fernando; Zavala C., Ivonne; Tasinato, Gianmassimo) General brane geometries from scalar potentials: gauged supergravities and accelerating universes. (English summary) **2004h:83096**
— *see also* **Aghababaie, Yashar et al., 2004c:83136**
de Buyl, Sophie *see* **Damour, Thibault et al., 2004d:83092**
Cacciatori, Sergio L. (*with* Celi, Alessio; Zanon, Daniela) BPS equations in $\mathcal{N} = 2$, $D = 5$ supergravity with hypermultiplets. (English summary) **2004b:83141**
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Caldarelli, Marco M. (*with* Klemm, Dietmar) All supersymmetric solutions of $N = 2$, $D = 4$ gauged supergravity. (English summary) **2004i:83135**
— (*with* Klemm, Dietmar) Supersymmetric Gödel-type universe in four dimensions. (English summary) **2004i:83136**
del Campo, Sergio *see* **Salgado, Patricio et al., 2004k:83165**
Cariglia, Marco (*with* Lechner, K.) Neveu-Schwarz 5-branes in type-IIA supergravity and gravitational anomalies. (English summary) **2004e:83114**
Cataldo, Mauricio *see* **Salgado, Patricio et al., 2004k:83165**
Cederwall, Martin (*with* Gran, Ulf; Nielsen, Mikkel; Nilsson, Bengt E. W.) Generalised 11-dimensional supergravity. (English summary) **2004g:83138**
Celi, Alessio *see* **Cacciatori, Sergio L. et al., 2004b:83141**
Chen, Bin[5] (*with* Chen, Chiang-Mei; Lin, Feng-Li) Supergravity null scissors and supercrosses. (English summary) **2004h:83097**
Chen, Chiang-Mei (*with* Gal'tsov, D. V.; Gutperle, Michael) S-brane solutions in supergravity theories. (English summary) **2004c:83140**
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Cvetič, Mirjam (*with* Gibbons, Gary W.; Pope, C. N.) A string and M-theory origin for the Salam-Sezgin model. (English summary) **2004i:83137**
— *see also* **Behrndt, Klaus, 2004g:83137**
Damour, Thibault (*with* de Buyl, Sophie; Henneaux, Marc; Schomblond, Christiane) Einstein billiards and overextensions of finite-dimensional simple Lie algebras. (English summary) **2004d:83092**
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Deger, Nihat Sadik Non-standard intersections of S-branes in $D = 11$ supergravity. (English summary) **2004c:83141**
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Deser, Stanley (*with* Waldron, Andrew) Arbitrary spin representations in de Sitter from dS/CFT with applications to dS supergravity. (English summary) **2004h:83098**
Dominici, Daniele *see* **De Curtis, Stefania et al.**
Edelstein, José Daniel (*with* Paredes, Ángel; Ramallo, Alfonso V.) Let's twist again: general metrics of G_2 holonomy from gauged supergravity. (English summary) **2004c:83142**
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Einhorn, Martin B. Instantons and $SL(2, \mathbf{R})$ symmetry in type IIB supergravity. (English summary) **2004k:83157**
Eto, Minoru (*with* Maru, Nobuhito; Sakai, Norisuke) Stability and fluctuations on walls in $\mathcal{N} = 1$ supergravity. (English summary) **2004i:83138**
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Evans, Nick *see* **Babington, James et al., 2004d:83090** *and* **2004g:83135**
Fayyazuddin, Ansar Supersymmetric webs of D3/D5-branes in supergravity. (English summary) **2004b:83143**
Ferrara, Sergio Spinors, supergravity and the signature of space-time. (English summary) **2004j:83140**
— (*with* Porrati, Massimo) $N = 1$ no-scale supergravity from IIB orientifolds. (English summary) **2004b:83144**
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Figueroa-O'Farrill, José On parallelizable NS-NS backgrounds. (English summary) **2004c:83144**
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dimensional supergravities. (English summary) **2004a:83081**

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Ketov, Sergei V. Summing up D-instantons in $N=2$ supergravity. (English summary) **2004b:83150**

— Instanton-induced scalar potential for the universal hypermultiplet. (English summary) **2004m:83107**

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Liu, James T. *see* **Güven, R. et al., 2004m:83105**

Lledó, Maria A. *see* **Andrianopoli, Laura et al., 2004a:83076**; **2004b:83139**; **2004g:83133**; **2004g:83134** *and* **2004i:83134**

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Marín, M. C. *see* **Nieto, J. A., 2004k:83162**

Martelli, Dario *see* **Gutowski, Jan B. et al., 2004i:83140**

Maru, Nobuhito *see* **Eto, Minoru et al., 2004c:83143** *and* **2004i:83138**

Matyszkiewicz, Radosław *see* **Lalak, Zygmunt, 2004e:83117** *and* **2004g:83142**

McCarthy, Shane A. *see* **Kuzenko, Sergei M., 2004b:83152**

Meessen, Patrick *see* **Bain, Pascal et al., 2004a:83078** *and* **Lozano-Tellechea, Ernesto et al., 2004c:83147**

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Moura, Filipe Four dimensional "old minimal" $\mathcal{N}=2$ supersymmetrization of $\mathscr{R}^4$. (English summary) **2004g:83143**

Mukhopadhyay, Subir *see* **Bhattacharyya, Sandip et al., 2004c:83139**

Naganuma, Masashi *see* **Arai, Masato et al., 2004b:83140**

Nicolai, Hermann (*with* Samtleben, Henning) Kaluza-Klein supergravity on AdS$_3\times S^3$. (English summary) **2004i:83142**

— (*with* Samtleben, Henning) Chern-Simons vs. Yang-Mills gaugings in three dimensions. (English summary) **2004g:83144**

Nielsen, Mikkel *see* **Gran, Ulf, 2004e:83115**; **Cederwall, Martin et al., 2004g:83138** *and* **Bergshoeff, Eric et al., 2004h:83094**

Nieto, J. A. (*with* Marín, M. C.) Search for a "gravitoid" theory. (English summary) **2004k:83162**

Nilsson, Bengt E. W. *see* **Cederwall, Martin et al., 2004g:83138**

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Núñez, Carlos *see* **Burgess, Clifford P. et al., 2004h:83096**

Nurmagambetov, Aleksei *see* **Bandos, Igor A. et al., 2004k:83156**

Ohta, Nobuyoshi Null-brane solutions in supergravities. (English summary) **2004c:83148**

Okada, Nobuchika *see* **Luty, Markus A., 2004d:83096**

Ortín, Tomás *see* **Alonso-Alberca, Natxo et al., 2004b:83137**; **2004e:83112**; **Lozano-Tellechea, Ernesto et al., 2004c:83147** *and* **Bergshoeff, Eric et al., 2004h:83094**

Pakis, Stathis *see* **Gauntlett, Jerome P. et al., 2004i:83139** *and* **2004m:83104**

Panda, Sudhakar *see* **de Roo, Mees et al., 2004a:83083** *and* **2004k:83164**

Papadopoulos, George (*with* Tsimpis, Dimitrios) The holonomy of IIB supercovariant connection. (English summary) **2004k:83163**

— *see also* **Figueroa-O'Farrill, José, 2004a:83081** *and* **Gutowski, Jan B., 2004c:83145**

Parameswaran, Susha L. *see* **Aghababaie, Yashar et al., 2004c:83136**

Paredes, Ángel *see* **Edelstein, José Daniel et al., 2004c:83142** *and* **2004d:83093**

Park, Jaemo *see* **Kiem, Youngjai et al., 2004b:83151**

Pelaez, José R. *see* **De Curtis, Stefania et al.**

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Phillips, Joseph *see* **Linch, W. D., III et al., 2004j:83143**

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Pilch, Krzysztof (*with* Warner, Nicholas P.) Generalizing the $N=2$ supersymmetric RG flow solution of IIB supergravity. (English summary) **2004j:83145**

Plyushchaĭ, M. S. (*with* Sorokin, D. P.; Tsulaia, Mirian) Higher spins from tensorial charges and OSp$(N|2n)$ symmetry. (English summary) **2004g:83145**

Pope, C. N. *see* **Lü, Hong**[1] **et al., 2004f:83094**; **Cvetič, Mirjam et al., 2004i:83137** *and* **Güven, R. et al., 2004m:83105**

Popowicz, Ziemowit (*with* Toppan, Francesco) The $N=2$ supersymmetric heavenly equation and its super-hydrodynamical reduction. (English summary) **2004f:83095**

Porrati, Massimo *see* **Ferrara, Sergio, 2004b:83144**
Prokushkin, S. F. *see* **Kallosh, Renata et al., 2004b:83148**
Quevedo, Fernando *see* **Aghababaie, Yashar et al., 2004c:83136** *and* **Burgess, Clifford P. et al., 2004h:83096**
Rajaraman, Arvind *see* **Kumar, Jason, 2004g:83141**
Rajpoot, Subhash *see* **Nishino, Hitoshi, 2004a:83082** *and* **2004i:83143**
Ramallo, Alfonso V. *see* **Edelstein, José Daniel et al., 2004c:83142** *and* **2004d:83093**
Rattazzi, Riccardo (*with* Scrucca, Claudio A.; Strumia, Alessandro) Brane to brane gravity mediation of supersymmetry breaking. (English summary)
Reall, Harvey S. *see* **Gutowski, Jan B. et al., 2004i:83140**
Roest, Diederik *see* **Bergshoeff, Eric et al., 2004d:83091**; **2004h:83094**; **2004h:83095** *and* **Alonso-Alberca, Natxo et al., 2004e:83112**
Roiban, Radu *see* **Bena, Iosif, 2004h:83093**
de Roo, Mees (*with* Westra, Dennis B.; Panda, Sudhakar) De Sitter solutions in $N = 4$ matter coupled supergravity. (English summary) **2004a:83083**
— (*with* Westra, Dennis B.; Panda, Sudhakar; Trigiante, Mario) Potential and mass-matrix in gauged $N = 4$ supergravity. (English summary) **2004k:83164**
Ryou, Cheol *see* **Kiem, Youngjai et al., 2004b:83151**
Sabra, Wafic A. *see* **Cacciatori, Sergio L. et al., 2004a:83080**
Sakai, Norisuke *see* **Arai, Masato et al., 2004b:83140**; **Eto, Minoru et al., 2004c:83143** *and* **2004i:83138**
Sakata, Tsuyoshi *see* **Eto, Minoru et al., 2004c:83143**
Salgado, Patricio (*with* del Campo, Sergio; Cataldo, Mauricio) $N = 1$ supergravity with a cosmological constant and the AdS group. (English summary) **2004k:83165**
Samtleben, Henning *see* **de Wit, Bernard et al., 2004b:83154**; **Nicolai, Hermann, 2004g:83144** *and* **2004i:83142**
Schomblond, Christiane *see* **Damour, Thibault et al., 2004d:83092**
Scrucca, Claudio A. *see* **Rattazzi, Riccardo et al.**
Seminara, Domenico Divergences and counterterms in $N = 1$ and $N = 2$ supergravities in $D = 11$ and $D = 10$ dimensions. (English summary) **2004b:83153**
Sezgin, E. *see* **Lü, Hong[1] et al., 2004f:83094** *and* **Güven, R. et al., 2004m:83105**
Shmakova, Marina *see* **Kallosh, Renata et al., 2004b:83148**
Sinkovics, Annamaria *see* **de Haro, Sebastian et al., 2004d:83094**
Skenderis, Kostas *see* **de Haro, Sebastian et al., 2004d:83094**
Sorokin, D. P. *see* **Plyushchaĭ, M. S. et al., 2004g:83145** *and* **Bandos, Igor A. et al., 2004k:83156**
Strumia, Alessandro *see* **Rattazzi, Riccardo et al.**
Tasinato, Gianmassimo *see* **Burgess, Clifford P. et al., 2004h:83096** *and* **Aghababaie, Yashar et al.**
Toppan, Francesco *see* **Popowicz, Ziemowit, 2004f:83095**
Trigiante, Mario *see* **de Wit, Bernard et al., 2004b:83154**; **Fré, Pietro et al., 2004f:83092**; **de Roo, Mees et al., 2004k:83164**; **Angelantonj, Carlo et al., 2004m:83099**; **2004m:83100** *and* **Andrianopoli, Laura et al., (2004m:83003)**
Tsimpis, Dimitrios *see* **Papadopoulos, George, 2004k:83163**
Tsulaia, Mirian *see* **Plyushchaĭ, M. S. et al., 2004g:83145**
Ueno, Tatsuya *see* **Kubota, Takahiro et al., 2004k:83161**
Vanhove, Pierre *see* **Antoniadis, Ignatios, (2004m:83003)**
Van Proeyen, Antoine *see* **Fré, Pietro et al., 2004f:83092**
Varela, O. *see* **de Azcárraga, José A. et al., 2004c:83138**
Vargas Moniz, P. FRW minisuperspace with local $N = 4$ supersymmetry and self-interacting scalar field. (English summary) **2004a:83084**
Vaulà, Silvia *see* **D'Auria, Riccardo et al., 2004j:83139**
Vayonakis, Costas E. *see* **Gioutsos, Dimitris V., 2004b:83146**
Waldron, Andrew *see* **Deser, Stanley, 2004h:83098**
Warner, Nicholas P. Gauged supergravity and holographic field theory.
— *see also* **Corrado, Richard A. et al., 2004b:83142** *and* **Pilch, Krzysztof, 2004j:83145**
West, Peter Very extended E_8 and A_8 at low levels, gravity and supergravity. (English summary) **2004h:83100**
Westra, Dennis B. *see* **de Roo, Mees et al., 2004a:83083** *and* **2004k:83164**
de Wit, Bernard Supergravity. **2004i:83144**
— (*with* Samtleben, Henning; Trigiante, Mario) On Lagrangians and gaugings of maximal supergravities. (English summary) **2004b:83154**
de Wit, Tim C. *see* **Bergshoeff, Eric et al., 2004d:83091** *and* **2004h:83095**
Woo, Kyungsung *see* **Ahn, Changhyun, 2004k:83155**
Yılmaz, Nejat T. Dualisation of the general scalar coset in supergravity theories. (English summary) **2004e:83119**
— The non-split scalar coset in supergravity theories. (English summary) **2004i:83145**
Yokoi, Naoto *see* **Kubota, Takahiro et al., 2004k:83161**
Zagermann, Marco *see* **Günaydin, Murat, 2004f:83093**
Zamaklar, M. *see* **Bain, Pascal et al., 2004a:83078**
Zanelli, Jorge (Super)-gravities beyond 4 dimensions. (English summary) **2004h:83101**
Zanon, Daniela *see* **Cacciatori, Sergio L. et al., 2004b:83141**
Zavala C., Ivonne *see* **Burgess, Clifford P. et al., 2004h:83096** *and* **Aghababaie, Yashar et al.**
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Bagger, Jonathan A. (*with* Belyaev, Dmitry V.) Supersymmetric branes with (almost) arbitrary tensions. (English summary) **2004b:83105**
Bandos, Igor A. BPS preons and tensionless super-p-branes in generalized superspace. (English summary) **2004c:81186**
Baulieu, Laurent (*with* Bellon, Marc; Tanzini, Alessandro) Supergravity and the knitting of the Kalb-Ramond two-form in eight-dimensional topological gravity. (English summary) **2004g:81249**
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— (*with* Becker, Melanie; Dasgupta, Keshav; Prokushkin, S. F.) Properties of heterotic vacua from superpotentials. (English summary) **2004i:81184**
Becker, Melanie (*with* Constantin, Dragoş) A note on flux induced superpotentials in string theory. (English summary) **2004m:81178**
— *see also* **Becker, Katrin et al., 2004h:81171** *and* **2004i:81184**
Bellon, Marc *see* **Baulieu, Laurent et al., 2004g:81249**
Belyaev, Dmitry V. *see* **Bagger, Jonathan A., 2004b:83105**
Bento, M. C. (*with* Bertolami, Orfeu; Sen, Anjan Ananda) Supergravity inflation on the brane. (English summary) **2004b:83107**
Berg, Marcus (*with* Samtleben, Henning) Holographic correlators in a flow to a fixed point. (English summary) **2004m:81159**
— (*with* Haack, Michael; Samtleben, Henning) Calabi-Yau fourfolds with flux and supersymmetry breaking. (English summary) **2004c:81190**
Bergamin, Luzi (*with* Kummer, Wolfgang) Graded Poisson-sigma models and dilaton-deformed 2D supergravity algebra. (English summary) **2004f:83051**
Bertolami, Orfeu *see* **Bento, M. C. et al., 2004b:83107**
Bhattacharya, Somdatta (*with* Roy, Shibaji) Time dependent supergravity solutions in arbitrary dimensions. (English summary) **2004m:83085**
Bobkov, K. Graviton-scalar interaction in the pp-wave background. (English summary) **2004e:83090**
Brax, Philippe (*with* Chatillon, Nicolas) Detuned branes and supersymmetry breaking. (English summary) **2004k:81357**
Brecher, Dominic (*with* Johnson, Clifford V.; Lovis, Kenneth J.; Myers, Robert C.) Penrose limits, deformed pp-waves and the string duals of $\mathcal{N} = 1$ large-N gauge theory. (English summary) **2004k:81253**
Brito, F. A. *see* **Bazeia, D. et al., 2004k:83101**
Brugués, Jan (*with* Gomis, Joaquim; Mateos, Toni; Ramírez, Toni) Supergravity duals of non-commutative wrapped D6-branes and supersymmetry without supersymmetry. (English summary) **2004a:83070**
Buchel, Alex (*with* Walcher, Johannes) Comments on supergravity description of S-branes. (English summary) **2004m:83087**
— (*with* Liu, James T.) Thermodynamics of the $\mathcal{N} = 2^*$ flow. (English summary) **2004m:81180**
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Burgess, Clifford P. (*with* Filotas, Elise; Klein, Matthias; Quevedo, Fernando) Low-energy brane-world effective actions and partial supersymmetry breaking. (English summary) **2004j:83123**
Cacciatori, Sergio L. *see* **Astorino, Marco et al., 2004d:83050**
Chatillon, Nicolas *see* **Brax, Philippe, 2004k:81357**
Choi, Kiwoon (*with* Kim, Hyung Do; Kim, Ian-Woo) Radius-dependent gauge unification in AdS_5. (English summary) **2004c:81262**
Cirafici, Michele *see* **Alday, Luis Fernando et al., 2004m:81229**
Constantin, Dragoş *see* **Becker, Melanie, 2004m:81178**
Correa, D. H. (*with* Moreno, Enrique F.; Reuillon, Sébastien; Schaposnik, Fidel A.) PP-waves from BPS supergravity monopoles. (English summary) **2004d:81086**
Cortés Suárez, Vicente *see* **Alekseevskiĭ, D. V. et al., 2004m:53080**
Dasgupta, Keshav (*with* Rajesh, Govindan; Robbins, Daniel; Sethi, Savdeep) Time-dependent warping, fluxes, and NCYM. (English summary) **2004f:83082**
— *see also* **Becker, Katrin et al., 2004h:81170**; **2004h:81171** *and* **2004i:81184**
D'Auria, Riccardo (*with* Ferrara, Sergio; Lledó, María A.; Vaulà, Silvia) No-scale $N = 4$ supergravity coupled to Yang-Mills: the scalar potential and super-Higgs effect. (English summary) **2004b:83127**
David, Justin R. *see* **Alday, Luis Fernando et al., 2004m:81229**
De La Ossa, Xenia *see* **Acharya, Bobby S. et al., 2004b:81136**
Devchand, Chandrashekar *see* **Alekseevskiĭ, D. V. et al., 2004m:53080**
Didenko, V. E. (*with* Vasil′ev, M. A.) Free field dynamics in the generalized AdS (super)space. (English summary) **2004k:81231**
Dolan, F. A. *see* **Arutyunov, Gleb E. et al., 2004i:81228**
Edelstein, José Daniel (*with* Paredes, Ángel; Ramallo, Alfonso V.) Wrapped branes with fluxes in 8d gauged supergravity. (English summary) **2004c:83118**
Eguchi, Tohru (*with* Sugawara, Yuji; Yamaguchi, Satoshi[2]) Supercoset CFTs for string theories on non-compact special holonomy manifolds. (English summary) **2004e:81123**
Farahat, N. I. *see* **Nassar, Z. M., 2004b:70041**
Faux, Michael (*with* Lüst, Dieter; Ovrut, Burt A.) Twisted sectors and Chern-Simons terms in M-theory orbifolds. (English summary) **2004g:81195**
Ferrara, Sergio (*with* Sokatchev, Emery) Conformally coupled supermultiplets in four and five dimensions. (English summary) **2004c:81267**
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Filotas, Elise *see* **Burgess, Clifford P. et al., 2004j:83123**
Frey, Andrew R. String theoretic bounds on Lorentz-violating warped compactification.

(English summary) **2004d:83080**
Gava, Edi *see* **Alday, Luis Fernando et al., 2004m:81229**
Giedt, Joel Full component Lagrangian in the linear multiplet formulation of string-inspired effective supergravity. (English summary) **2004c:81204**
Gomis, Joaquim *see* **Brugués, Jan et al., 2004a:83070**
Graña, Mariana D3-brane action in a supergravity background: the fermionic story. (English summary) **2004e:81132**
Green, Paul S. *see* **Becker, Katrin et al., 2004h:81171**
Gubser, Steven S. (*with* Mitra, Indrajit[2]) Some interesting violations of the Breitenlohner-Freedman bound. (English summary) **2004k:83109**
Gukov, Sergei *see* **Acharya, Bobby S. et al., 2004b:81136**
Haack, Michael *see* **Berg, Marcus et al., 2004c:81190**
Henry-Labordère, Pierre (*with* Julia, Bernard; Paulot, Louis) Real Borcherds superalgebras and M-theory. (English summary) **2004k:81281**
Herger, Ivan *see* **de Wit, Bernard et al., 2004i:81246**
Hernández, Rafael (*with* Sfetsos, Konstadinos) Supersymmetric quantum mechanics from wrapped branes. (English summary) **2004m:81245**
Hikida, Yasuaki (*with* Rey, Soo-Jong) Can branes travel beyond CTC horizon in Gödel universe? (English summary) **2004g:83118**
Howe, Paul S. (*with* Stelle, Kellogg S.) Supersymmetry counterterms revisited. (English summary) **2004b:81214**
Imeroni, Emiliano (*with* Lerda, Alberto) Non-perturbative gauge superpotentials from supergravity. (English summary) **2004k:81285**
Johnson, Clifford V. *see* **Brecher, Dominic et al., 2004k:81253**
Julia, Bernard *see* **Henry-Labordère, Pierre et al., 2004k:81281**
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Keurentjes, Arjan The group theory of oxidation. (English summary) **2004k:83147a**
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Kim, Hyung Do *see* **Choi, Kiwoon et al., 2004c:81262**
Kim, Ian-Woo *see* **Choi, Kiwoon et al., 2004c:81262**
Klein, Matthias *see* **Burgess, Clifford P. et al., 2004j:83123**
Klemm, Dietmar *see* **Astorino, Marco et al., 2004d:83050**
Kol, Barak *see* **Aharony, Ofer et al., 2004k:81350**
Kruczenski, Martín Supergravity backgrounds corresponding to D7 branes wrapped on Kähler manifolds. (English summary) **2004m:83095**
Kummer, Wolfgang *see* **Bergamin, Luzi, 2004f:83051**
Kwon, O-Kab (*with* Shin, Hyeonjoon) Type IIA supergravity excitations in a plane-wave background. (English summary) **2004k:83149**
Langfelder, Peter *see* **Buchel, Alex et al., 2004m:83088**
Lee, Hok Kong (*with* Wu, Xinkai) Two-graviton interaction in pp-wave background in matrix theory and supergravity. (English summary) **2004f:83086**
Lee, Kiyoung (*with* Siegel, Warren) Bound-state gravity from higher derivatives. (English summary) **2004g:83122**
Lehners, Jean-Luc (*with* Stelle, Kellogg S.) $D = 5$ M-theory radion supermultiplet dynamics. (English summary) **2004e:83105**
Lerda, Alberto *see* **Imeroni, Emiliano, 2004k:81285**
Liu, James T. *see* **Buchel, Alex, 2004m:81180**
Lledó, Maria A. *see* **D'Auria, Riccardo et al., 2004b:83127**
Lovis, Kenneth J. *see* **Brecher, Dominic et al., 2004k:81253**
Lüst, Dieter *see* **Faux, Michael et al., 2004g:81195**
Maeda, Kei-ichi *see* **Uzawa, Kunihito, 2004k:83129**
Mansfield, Paul (*with* Nolland, David; Ueno, Tatsuya) The boundary Weyl anomaly in the $\mathcal{N} = 4$ SYM/type-IIB supergravity correspondence. (English summary) **2004m:81234**
Marolf, Donald Chern-Simons terms and the three notions of charge. (English summary) **2004g:83124**
Mateos, Toni *see* **Brugués, Jan et al., 2004a:83070**
Mazumdar, Anupam Early universe cosmology and supergravity. (English summary) (*see* **2004m:83003**)
Merlatti, Paolo $\mathcal{N} = 1$ super Yang-Mills theories and wrapped branes. (English summary) **2004h:81238**
Mitra, Indrajit[2] *see* **Gubser, Steven S., 2004k:83109**
Morales, José F. (*with* Samtleben, Henning) Supergravity duals of matrix string theory. (English summary) **2004b:83135**
Moreno, Enrique F. *see* **Correa, D. H. et al., 2004d:81086**
Moss, Ian G. Boundary terms for eleven-dimensional supergravity and M-theory. (English summary) **2004i:83132**
Moura, Filipe Four dimensional supersymmetrization of $\mathbf{R}^4$. (English summary) (*see* **2004m:83003**)
Myers, Robert C. *see* **Brecher, Dominic et al., 2004k:81253**
Narain, Kumar S. *see* **Alday, Luis Fernando et al., 2004m:81229**
Nascimento, J. R. S. *see* **Bazeia, D. et al., 2004k:83101**
Nassar, Z. M. (*with* Farahat, N. I.) Treatment of a spinning particle or super-gravity in one dimension as singular system. (English summary) **2004b:70041**
Nishimura, Madoka A note on supersymmetry in noncommutative field theories. (English summary) **2004g:81268**
Nolland, David *see* **Mansfield, Paul et al., 2004m:81234**
Núñez, Carlos (*with* Paredes, Ángel; Ramallo, Alfonso V.) Flavoring the gravity dual of $\mathcal{N} = 1$ Yang-Mills with probes. (English summary) **2004k:81378**
— Dualities between gauge and supergravity/string theories. (English summary) (*see* **2004m:83003**)
Ohta, Nobuyoshi Intersection rules for S-branes. (English summary) **2004b:81183**
Osborn, Hugh *see* **Arutyunov, Gleb E. et al., 2004i:81228**
Ovrut, Burt A. *see* **Faux, Michael et al., 2004g:81195**
Page, David C. (*with* Smith, Douglas J.) Giant gravitons in non-supersymmetric backgrounds. (English summary) **2004h:83089**
Paredes, Ángel *see* **Edelstein, José Daniel et al., 2004c:83118** *and* **Núñez, Carlos et al., 2004k:81378**
Patricot, Christophe Kaigorodov spaces and their Penrose limits. (English summary) **2004e:83108**
Paulot, Louis *see* **Henry-Labordère, Pierre et al., 2004k:81281**
Peeters, K. (*with* Vanhove, Pierre; Westerberg, Anders) Supersymmetric R^4 actions and quantum corrections to superspace torsion constraints. (English summary) **2004g:81269**
Petkou, Anastasios C. Boundary multi-trace deformations and OPEs in AdS/CFT correspondence. (English summary) **2004d:81134**
Porrati, Massimo (*with* Starinets, Andrei O.) Holographic duals of 4D field theories. (English summary) **2004b:81219**
Prokushkin, S. F. *see* **Becker, Katrin et al., 2004i:81184**
Quevedo, Fernando *see* **Burgess, Clifford P. et al., 2004j:83123**
Rajesh, Govindan *see* **Dasgupta, Keshav et al., 2004f:83082**
Ramallo, Alfonso V. *see* **Edelstein, José Daniel et al., 2004c:83118** *and* **Núñez, Carlos et al., 2004k:81378**
Ramírez, Toni *see* **Brugués, Jan et al., 2004a:83070**
Reuillon, Sébastien *see* **Correa, D. H. et al., 2004d:81086**
Rey, Soo-Jong *see* **Hikida, Yasuaki, 2004g:83118**
Robbins, Daniel *see* **Dasgupta, Keshav et al., 2004f:83082**
Roy, Shibaji On supergravity solutions of space-like Dp-branes. (English summary) **2004c:83133**
— *see also* **Bhattacharya, Somdatta, 2004m:83085**
Sakai, Tadakatsu (*with* Sonnenschein, Jacob) Probing flavored mesons of confining gauge theories by supergravity. (English summary) **2004j:83134**
Samtleben, Henning *see* **Morales, José F., 2004b:83135**; **Berg, Marcus et al., 2004c:81190**; **2004m:81159** *and* **de Wit, Bernard et al., 2004i:81246**
Sato, Matsuo (*with* Tsuchiya, Asato) Hamilton-Jacobi method and effective actions of D-brane and M-brane in supergravity. (English summary) **2004g:83129**
— (*with* Tsuchiya, Asato) Born-Infeld action from supergravity. (English summary) **2004h:81206**
Schaposnik, Fidel A. *see* **Correa, D. H. et al., 2004d:81086**
Sen, Anjan Ananda *see* **Bento, M. C. et al., 2004b:83107**
Sethi, Savdeep *see* **Dasgupta, Keshav et al., 2004f:83082**
Sfetsos, Konstadinos *see* **Hernández, Rafael, 2004m:81245**
Shin, Hyeonjoon *see* **Kwon, O-Kab, 2004k:83149**
Siegel, Warren *see* **Lee, Kiyoung, 2004g:83122**
Smith, Douglas J. *see* **Page, David C., 2004h:83089**
Sokatchev, Emery *see* **Ferrara, Sergio, 2004c:81267**; **Arutyunov, Gleb E. et al., 2004i:81227** *and* **2004i:81228**
Sonnenschein, Jacob *see* **Sakai, Tadakatsu, 2004j:83134**
Starinets, Andrei O. *see* **Porrati, Massimo, 2004b:81219**
Stelle, Kellogg S. RS braneworlds in type IIB supergravity. (English summary) **2004f:83077**
— *see also* **Howe, Paul S., 2004b:81214** *and* **Lehners, Jean-Luc, 2004e:83105**
Sugawara, Yuji *see* **Eguchi, Tohru et al., 2004e:81123**
Tanzini, Alessandro *see* **Baulieu, Laurent et al., 2004g:81249**
Theis, Ulrich (*with* Vandoren, Stefan) $N = 2$ supersymmetric scalar-tensor couplings. (English summary) **2004f:81229**
Tsuchiya, Asato *see* **Sato, Matsuo, 2004g:83129** *and* **2004h:81206**
Ueno, Tatsuya *see* **Mansfield, Paul et al., 2004m:81234**
Uzawa, Kunihito (*with* Maeda, Kei-ichi) Dilaton dynamics in (A)dS$_5 \times$ S^5. (English summary) **2004k:83129**
— Dilaton stabilization in (A)dS spacetime with compactified dimensions. (English summary) **2004j:83118**
Vandoren, Stefan *see* **Theis, Ulrich, 2004f:81229**
Vanhove, Pierre *see* **Peeters, K. et al., 2004g:81269**
Van Proeyen, Antoine *see* **Alekseevskiĭ, D. V. et al., 2004m:53080**
Vasil'ev, M. A. *see* **Didenko, V. E., 2004k:81231**
Vaulà, Silvia *see* **D'Auria, Riccardo et al., 2004b:83127**
Walcher, Johannes *see* **Buchel, Alex et al., 2004m:83087** *and* **2004m:83088**
Westerberg, Anders *see* **Peeters, K. et al., 2004g:81269**
de Wit, Bernard (*with* Herger, Ivan; Samtleben, Henning) Gauged locally supersymmetric $D = 3$ nonlinear sigma models. (English summary) **2004i:81246**
Wu, Xinkai *see* **Lee, Hok Kong, 2004f:83086**
Wu, Zhong Chao Dimensionality in the Freund-Rubin cosmology. (English summary) **2004m:83081**
Yamaguchi, Satoshi[2] *see* **Eguchi, Tohru et al., 2004e:81123**
Yankielowicz, Shimon *see* **Aharony, Ofer et al., 2004k:81350**
Zanon, Daniela *see* **Astorino, Marco et al., 2004d:83050**

83E99 None of the above, but in this section

Green, Edward L.[2] *see* **Pandres, Dave, Jr., 2004i:83146**
Oyibo, Gabriel A. ★ Grand unified theorem: representation of the unified field theory or the theory of everything.
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Pandres, Dave, Jr. (*with* Green, Edward L.[2]) Unified field theory from enlarged transformation group. The consistent Hamiltonian. (English summary) **2004i:83146**

Items with secondary classifications in 83E99

Bars, Itzhak Survey of two-time physics. (English summary) **2004g:81298**
Burinskiĭ, A. Ya. Supersymmetric superconducting bag as the core of a Kerr spinning particle. (English and Russian summaries) **2004d:83056**
de Buyl, Sophie *see* **Damour, Thibault et al., 2004d:83092**
Damour, Thibault (*with* de Buyl, Sophie; Henneaux, Marc; Schomblond, Christiane) Einstein billiards and overextensions of finite-dimensional simple Lie algebras. (English summary) **2004d:83092**
Dimitrov, Bogdan G. Cubic algebraic equations in gravity theory, parametrization with the Weierstrass function and nonarithmetic theory of algebraic equations. (English summary) **2004f:83059**

Henneaux, Marc *see* **Damour, Thibault et al., 2004d:83092**
Schomblond, Christiane *see* **Damour, Thibault et al., 2004d:83092**
Torr, D. G. *see* **Vargas, J. G., 2004c:83089**
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83F05 Cosmology

Abdyrakhmanov, S. T. *see* **Gavrilov, V. R. et al.**
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Adams, Fred C. (*with* Busha, Michael T.; Evrard, August E.; Wechsler, Risa H.) The asymptotic structure of space-time. (English summary)
Aguirre, Anthony (*with* Gratton, Steven) Inflation without a beginning: a null boundary proposal. (English summary) **2004f:83096**
Aguirregabiria, Juan M. (*with* Chimento, Luis P.; Jakubi, Alejandro S.; Lazkoz Saez, R.) Symmetries leading to inflation. (English summary) **2004f:83097**
— (*with* Lazkoz Saez, R.) Anisotropic brane cosmologies with exponential potentials. (English summary) **2004m:83109**
Alcaniz, J. S. *see* **Jain, Deepak et al.**
Alexander, Stephon H. S. (*with* Brandenberger, Robert; Magueijo, João) Noncommutative inflation. (English summary)
Amery, G. (*with* Shellard, E. P. S.) Causal perturbation theory in general FRW cosmologies: energy-momentum conservation and matching conditions. (English summary) **2004f:83098**
Arbab, Arbab I. Cosmic acceleration with a positive cosmological constant. (English summary) **2004a:83085**
Arcos, H. I. *see* **Quiroga Hurtado, John et al., 2004i:83164**
Ardila Urueña, William *see* **Quiroga Hurtado, John et al., 2004i:83164**
Arias, Olga (*with* Gonzalez, Tame; Leyva, Yoelsy; Quiros, Israel) Exact scaling solutions in normal and Brans-Dicke models of dark energy. (English summary)
Arkani-Hamed, Nima (*with* Cheng, Hsin-Chia; Creminelli, Paolo; Randall, Lisa) Pseudonatural inflation. (English summary) **2004g:83146**
Armendáriz-Picón, C. (*with* Greene, Patrick B.) Spinors, inflation, and non-singular cyclic cosmologies. (English summary) **2004i:83147**
Aurell, Erik (*with* Fanelli, Duccio; Gurbatov, S. N.; Moshkov, A. Yu.) The inner structure of Zeldovich pancakes. (English summary)
Avelino, P. P. (*with* Martins, C. J. A. P.) Cosmic numbers: a physical classification for cosmological models. (English summary) **2004c:83149**
Babichev, Eugeny (*with* Dokuchaev, Vyacheslav) Gravitational radiation from chiral string cusps. (English summary)
Baburova, O. V. (*with* Frolov, Boris N.) Dilaton matter as dark matter and evolution of the universe. (English and Russian summaries) **2004j:83146**
Balakin, A. B. Curvature coupling and accelerated expansion of the universe. (English summary)
Balashov, Yu. V. The concept of a stationary universe: sources, evolution, and methodological lessons. (Russian) (*see* **2003i:01001**)
Bali, Raj (*with* Singh, K. N.; Ghiya, Kavita) Bianchi type I inflationary cosmological model in general relativity. (English summary) **2004e:83120**
Banerjee, Asit Kumar *see* **Chatterjee, Sujit, 2004k:83167**
Barceló, Carlos (*with* Liberati, Stefano; Visser, Matt) Analogue models for FRW cosmologies. (English summary)
Barrett, Richard K. *see* **Clarkson, Chris A. et al., 2004d:83098**
Barros, Adriano Trindade (*with* Bezerra, Valdir B.; Romero, Carlos Augusto) Global aspects of gravitomagnetism. (English summary)
Barrow, John D. Unusual features of varying speed of light cosmologies. (English summary) **2004h:83102**
— (*with* Hervik, Sigbjørn) Indefinite information processing in ever-expanding universes. (English summary) **2004e:83121**
Baysal, Hüsnü Inheriting spacelike conformal Killing vectors in string cosmology. (English summary) **2004e:83122**
Begum, N. *see* **Rahaman, F. et al.**
Bekenstein, Jacob D. Fine-structure constant variability, equivalence principle, and cosmology. (English summary) **2004e:83123**
Belinchón, José Antonio (*with* Harko, T.; Mak, Man-Kong) Full causal bulk-viscous cosmological models with variable G and Λ. (English and Russian summaries) **2004c:83150**
— (*with* Chakrabarty, Indrajit) Perfect fluid cosmological models with time-varying constants. (English summary)
Bellini, Mauricio Inflationary cosmology from STM theory of gravity. (English summary) **2004c:83151**
— Erratum to: "Inflationary cosmology from STM theory of gravity" [Nuclear Phys. B **660** (2003), no. 1-2, 389–400].
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Berera, Arjun (*with* Ramos, Rudnei O.) Construction of a robust warm inflation mechanism. (English summary)
Bergström, Lars (*with* Danielsson, Ulf H.) Can MAP and Planck map Planck physics? (English summary) **2004a:83086**
Bernardeau, Francis Dark matter, dark energy, gravitational lensing and the formation of structure in the universe. (English summary) **2004c:83152**
Bertolami, Orfeu *see* **Bento, M. C. et al.**
Bertrand, Bruno (*with* Brihaye, Yves; Hartmann, Betti) de Sitter/anti-de Sitter global monopoles. (English summary) **2004j:83147**
Betschart, Gerold (*with* Dunsby, Peter K. S.; Marklund, Mattias) Cosmic magnetic fields from velocity perturbations in the early universe. (English summary)
Bezerra, Valdir B. *see* **Barros, Adriano Trindade et al.**
Biswas, Satyabrata (*with* Misra, Pradip; Chowdhury, Indrani) The CWKB method of particle production in a periodic potential. (English summary) **2004a:83087**
Biswas, Tirthabir Cosmology with branes wrapping curved internal manifolds. (English summary)
Bjorken, James D. Cosmology and the standard model. (English summary) **2004c:83153**
Bojowald, Martin Initial conditions for a universe. (English summary) **2004i:83148**
Bonanno, Alfio (*with* Esposito, Giampiero; Rubano, Claudio) A class of renormalization group invariant scalar field cosmologies. (English summary)
— (*with* Reuter, Martin) Cosmological perturbations in renormalization group derived cosmologies. (English summary)
Bossard, A. (*with* Mohammedi, N.) Non-abelian T-duality in pre-big-bang cosmology. (English summary) **2004c:83154**
Bozza, V. (*with* Giovannini, Massimo; Veneziano, Gabriele) Cosmological perturbations from a new-physics hypersurface. (English summary) **2004f:83099**
Brandenberger, Robert (*with* Geshnizjani, G.; Watson, Gary Scott) Initial conditions for brane inflation. (English summary) **2004i:83149**
— *see also* **Alexander, Stephon H. S. et al.** *and* **Watson, Gary Scott**
Brenig, Léon (*with* Figueiredo, Annibal; Gunzig, Edgard; Rocha Filho, Tarcísio M.; Saa, Alberto) Stability properties and asymptotics for N nonminimally coupled scalar fields cosmology. (English summary)
— *see also* **Figueiredo, Annibal et al., 2004a:83089** *and* **Abramo, L. Raul et al., 2004b:83155**
Brevik, Iver (*with* Quiroga Hurtado, John) Inflationary dilatonic de Sitter universe from super Yang-Mills theory perturbed by scalars and spinors. (English summary)
Brihaye, Yves *see* **Bertrand, Bruno et al., 2004j:83147**
Bruni, Marco *see* **Mena, Filipe C. et al., 2004c:83161**
Buchner, K. (*with* Nashed, G. G. L.) On the geometry of the Big Bang. (English summary)
Buonanno, A. The early universe, the present universe. (*see* **2004g:83002**)
Burgess, Clifford P. Brane-antibrane inflation. (English summary) **2004k:83166**
— Naturalness and quintessence. (English summary) **2004m:83110**
Burns, Jean E. Vacuum radiation, entropy and the arrow of time. (English summary) (*see* **2003j:83001**)
Busha, Michael T. *see* **Adams, Fred C. et al.**
Cai, Rong-Gen (*with* Myung, Yun Soo) Holography in a radiation-dominated universe with a positive cosmological constant. (English summary) **2004h:83103**
del Campo, Sergio (*with* Herrera, Ramón) Extended open inflationary universes. (English summary)
Campos, Antonio Late-time dynamics of brane gas cosmology. (English summary)
Carmeli, Moshe Fundamental approach to the cosmological constant issue. (English summary)
Carneiro, Saulo On the vacuum entropy and the cosmological constant. (English summary)
Castagnino, Mario (*with* Lombardi, Olimpia; Lara, Luis) The global arrow of time as a geometrical property of the universe. (English summary) **2004i:83150**
— (*with* Chavarriga, Javier; Lara, Luis) An exact solution for the fluctuations of an FRW cosmology with n scalar fields, for an arbitrary potential. (English summary) **2004i:83151**
— (*with* Lombardi, Olimpia) The self-induced approach to decoherence in cosmology. (English summary) **2004j:83148**
Chakrabarty, Indrajit *see* **Belinchón, José Antonio**
Chakraborty, Subenoy *see* **Rahaman, F. et al.**
Chatterjee, Sujit (*with* Banerjee, Asit Kumar) C-field cosmology in higher dimensions. (English summary) **2004k:83167**
Chavarriga, Javier *see* **Castagnino, Mario et al., 2004i:83151**
Cheng, Hsin-Chia *see* **Arkani-Hamed, Nima et al., 2004g:83146**
Chervon, Sergei V. (*with* Koshelev, N. A.) Inflaton and non-inflaton perturbations in a two-component chiral cosmological model. (English and Russian summaries)
— Inflationary cosmological models without restrictions on a scalar field potential. (English summary)
Chimento, Luis P. *see* **Aguirregabiria, Juan M. et al., 2004f:83097**
Chowdhury, Indrani *see* **Biswas, Satyabrata et al., 2004a:83087**
Clarkson, Chris A. (*with* Coley, Alan A.; O'Neill, E. S. D.; Sussman, R. A.; Barrett, Richard K.) Inhomogeneous cosmologies, the Copernican principle and the cosmic microwave background: more on the EGS theorem. (English summary) **2004d:83098**
Coles, Peter The wave mechanics of large-scale structure. (English summary) (*see* **2004m:83002**)
— Statistical properties of cosmological fluctuations. (English summary) (*see* **2004m:83002**)
Coley, Alan A. Brane-world cosmology. (English summary) **2004f:83100**
— *see also* **Clarkson, Chris A. et al., 2004d:83098**
Comelli, D. (*with* Pietroni, Massimo; Riotto, A.) Dark energy and dark matter. (English summary)
Copeland, Edmund J. *see* **Malquarti, Michaël et al.**
Cornejo-Pérez, Octavio *see* **Rosu, Haret C. et al.**
Coule, D. H. Entropic issues in contemporary cosmology. (English summary)
Creminelli, Paolo *see* **Arkani-Hamed, Nima et al., 2004g:83146**
Daishev, Rinat A. (*with* Zimdahl, Winfried) On homothetic cosmological dynamics. (English summary) **2004i:83152**
Damour, Thibault (*with* Henneaux, Marc; Nicolai, Hermann) Cosmological billiards. (English summary) **2004e:83124**
Danielsson, Ulf H. Inflation, holography, and the choice of vacuum in de Sitter space. (English summary) **2004h:83104**
— Holography, inflation and quantum fluctuations in the early Universe. (English summary) **2004m:83111**
— (*with* Domert, Daniel; Olsson, Martin E.) Puzzles and resolutions of information duplication in de Sitter space. (English summary)
— *see also* **Bergström, Lars, 2004a:83086**
Das, S. *see* **Rahaman, F. et al.**
Deffayet, Cédric Cosmology of brane-induced gravity models. (English summary) **2004a:83088**
Dev, Abha *see* **Jain, Deepak et al.**
Dhara, Haru Chand Cosmic strings in Rindler spacetime. (English summary) **2004b:83156**
Dimopoulos, Konstantinos Curvaton hypothesis and the η problem of quintessential inflation, with and without branes. (English summary)

— (*with* Lazarides, G.; Lyth, David H.; Ruiz de Austri, Roberto) Curvaton dynamics. (English summary)
Djordjević, Goran S. (*with* Dragović, Branko G.; Nešić, Ljubiša) p-adic quantum cosmology. (English summary) **2004c:83155**
Dokuchaev, Vyacheslav *see* **Babichev, Eugeny**
Dolgov, A. D. Particle production in cosmology and imaginary time method. (English summary) **2004b:83157**
Domert, Daniel *see* **Danielsson, Ulf H. et al.**
Donoghue, John F. Spatial and temporal gradients in the cosmological constant. (English summary) **2004b:83158**
Dragović, Branko G. *see* **Djordjević, Goran S. et al., 2004c:83155**
Duan, Yi-Shi (*with* Liu, Xin[5]) Knotlike cosmic strings in the early universe. (English summary) **2004k:83168**
— *see also* **Zhang, Peng-Ming et al.**
Dunsby, Peter K. S. *see* **Betschart, Gerold et al.**
Durrer, R. *see* **Trotta, R. et al.**
Dyer, C. C. *see* **Mureika, J. R.**
Dymnikova, I. G. (*with* Fil′chenkov, M. L.) Quantum origin of a hot universe. (English summary) **2004g:83147**
Dyson, Lisa (*with* Kleban, Matthew; Susskind, Leonard) Disturbing implications of a cosmological constant. (English summary) **2004c:83156**
Earman, John The cosmological constant, the fate of the universe, unimodular gravity, and all that. (English summary)
Easson, Damien A. Towards a stringy resolution of the cosmological singularity. (English summary)
Easther, Richard (*with* Greene, Brian R.; Kinney, William H.; Shiu, Gary) Imprints of short distance physics on inflationary cosmology. (English summary)
Elizalde, Emilio (*with* Quiroga Hurtado, John) Phantom and quantum matter in an anti de Sitter universe. (English summary) **2004k:83169**
Ellis, George F. R. (*with* Maartens, Roy) The emergent universe: inflationary cosmology with no singularity. (English summary) **2004m:83112**
— (*with* Murugan, Jeff; Tsagas, Christos G.) The emergent universe: an explicit construction. (English summary) **2004m:83113**
— *see also* **Kirchner, U., 2004b:83160**
Ellwanger, Ulrich The cosmological constant. (English summary) (*see* **2004d:81001**)
Enqvist, Kari (*with* Mazumdar, Anupam) Cosmological consequences of MSSM flat directions. (English summary) **2004c:83157**
Esposito, Giampiero *see* **Bonanno, Alfio et al.**
Evrard, August E. *see* **Adams, Fred C. et al.**
Fabris, J. C. (*with* Furtado, R. G.; Peter, Patrick; Pinto-Neto, Nelson) Regular cosmological bouncing solutions in low energy effective action from string theories. (English summary) **2004h:83105**
— (*with* Gonçalves, S. V. B.; de Sá Ribeiro, R.) Generalized Chaplygin gas with $\alpha = 0$ and the ΛCDM cosmological model. (English summary)
Fanelli, Duccio *see* **Aurell, Erik et al.**
Feinstein, Alexander (*with* Jhingan, Sanjay) Ghosts in a mirror. (English summary)
Feoli, Antonio Some predictions of the cosmological Schrödinger equation. (English summary)
Fernández-Jambrina, L. (*with* González-Romero, L. M.) Non-singular radiation cosmological models. (English summary)
Figueiredo, Annibal (*with* Rocha Filho, Tarcísio M.; Gunzig, Edgard; Brenig, Léon; Saa, Alberto) Superinflation and quintessence in the presence of an extra field. (English summary) **2004a:83089**
— *see also* **Brenig, Léon et al.**
Fil′chenkov, M. L. *see* **Dymnikova, I. G., 2004g:83147**
Fischler, Willy (*with* Loewy, Amit; Paban, Sonia) The entropy of the microwave background and the acceleration of the universe. (English summary) **2004i:83153**
Fliche, H. H. (*with* Triay, R.; Novello, M.; de Freitas, Luciane R.) An isotropization mechanism in Bianchi I model. (English summary)
de Freitas, Luciane R. *see* **Fliche, H. H. et al.**
Frolov, Andrei V. (*with* Kofman, Lev) Inflation and de Sitter thermodynamics. (English summary) **2004f:83101**
Frolov, Boris N. *see* **Baburova, O. V., 2004j:83146**
Furtado, R. G. *see* **Fabris, J. C. et al., 2004h:83105**
Gasperini, M. (*with* Veneziano, Gabriele) The pre-big bang scenario in string cosmology. (English summary) **2004b:83159**
Gavrilov, V. R. (*with* Mel′nikov, V. N.; Abdyrakhmanov, S. T.) Flat Friedmann universe filled by dust and scalar field with multiple exponential potential. (English summary)
Geshnizjani, G. *see* **Brandenberger, Robert et al., 2004i:83149**
Ghiya, Kavita *see* **Bali, Raj et al., 2004e:83120**
Gibbons, Gary W. Thoughts on tachyon cosmology. (English summary) **2004i:83154**
— (*with* Patricot, Christophe) Newton-Hooke spacetimes, Hpp-waves and the cosmological constant. (English summary) **2004m:83114**
Giovannini, Massimo Assigning quantum-mechanical initial conditions to cosmological perturbations. (English summary) **2004i:83155**
— *see also* **Bozza, V. et al., 2004f:83099**
Glanc, B. (*with* Jakubowicz, Antoni) An application of the special Reissner-Nordström space-time to description of the universe in the neighbourhood of the Planck era. (English summary)
Godłowski, Włodzimierz (*with* Szydłowski, Marek) Dark energy and global rotation of the universe. (English summary)
Gokhroo, Anil Magnetized cosmological model filled with dust distribution of perfect fluid in general relativity. (English summary)
Gomero, G. I. Determining the shape of the universe using discrete sources. (English summary) **2004i:83156**
Gonçalves, S. V. B. *see* **Fabris, J. C. et al.**
Gonzalez, Tame *see* **Arias, Olga et al.**
González-Romero, L. M. *see* **Fernández-Jambrina, L.**
Gordon, Christopher (*with* Turok, Neil) Cosmological perturbations through a general relativistic bounce. (English summary) **2004k:83170**
Graneau, Neal *see* **Graneau, Peter, 2004h:83106**
Graneau, Peter (*with* Graneau, Neal) Machian inertia and the isotropic universe. (English summary) **2004h:83106**
Gratton, Steven *see* **Aguirre, Anthony, 2004f:83096**
Gravanis, Elias (*with* Willison, Steven) Israel conditions for the Gauss-Bonnet theory and the Friedmann equation on the brane universe. (English summary) **2004d:83099**
Greene, Brian R. *see* **Easther, Richard et al.**
Greene, Patrick B. *see* **Armendáriz-Picón, C., 2004i:83147**
Grøn, Øyvind (*with* Rippis, Peter D.) Singular shell embedded into a cosmological model. (English summary)
Guendelman, Eduardo I. (*with* Katz, O.) Inflation and transition to a slowly accelerating phase from SSB of scale invariance. (English summary) **2004d:83100**
Gunzig, Edgard *see* **Figueiredo, Annibal et al., 2004a:83089**; **Abramo, L. Raul et al., 2004b:83155** *and* **Brenig, Léon et al.**
Guo, Zong-Kuan (*with* Piao, Yun-Song; Zhang, Yuan Zhong) Cosmological scaling solutions and multiple exponential potentials. (English summary) **2004g:83148**
Gurbatov, S. N. *see* **Aurell, Erik et al.**
Gurevich, Aleksandr Viktor *see* **Ilyin, A. S. et al.**
Guth, Alan Inflation and cosmological perturbations.
Guts, A. K. The Deutsch theory of the multiverse and physical constants. (English and Russian summaries) **2004j:83149**
Halyo, Edi Holographic inflation. (English summary) **2004k:83171**
Harko, T. (*with* Mak, Man-Kong) Relativistic dissipative cosmological models and Abel differential equation. (English summary) **2004j:83150**
— *see also* **Belinchón, José Antonio et al., 2004c:83150**
Hartmann, Betti *see* **Bertrand, Bruno et al., 2004j:83147**
Hassan, S. F. (*with* Sloth, Martin S.) Trans-Planckian effects in inflationary cosmology and the modified uncertainty principle. (English summary)
Hauck, John C. *see* **Kerr, Andrew W. et al., 2004f:83103**
Hawking, Stephen AdS, CFT and cosmology. **2004i:83157**
— (*with* Hertog, Thomas) Why does inflation start at the top of the hill? (English summary) **2004a:83090**
Hawkins, Rachael M. (*with* Lidsey, James E.) Inflationary energy scale in braneworld cosmology. (English summary)
Hayashi, Mitsuo J. *see* **Watanabe, Tomoki, 2004c:83165**
Henneaux, Marc *see* **Damour, Thibault et al., 2004e:83124**
Herrera, Ramón *see* **del Campo, Sergio**
Hertog, Thomas *see* **Hawking, Stephen, 2004a:83090**
Hervik, Sigbjørn *see* **Barrow, John D., 2004e:83121**
Hirai, Shiro Initial condition of scalar perturbation in inflation. (English summary) **2004c:83158**
Hossain, M. *see* **Rahaman, F. et al.**
Huang, Qing-Guo (*with* Li, Miao[1]) CMB power spectrum from noncommutative spacetime. (English summary) **2004e:83125**
Huber, Stephan J. (*with* Shafi, Qaisar) Cosmological constant, gauge hierarchy, and warped geometry. (English summary)
Ilyin, A. S. (*with* Zybin, K. P.; Gurevich, Aleksandr Viktor) Dark matter in galaxies and the growth of giant black holes. (Russian)
Imponente, Giovanni (*with* Montani, Giovanni) On the quasi-isomtropic inflationary solution. (English summary)
— (*with* Montani, Giovanni) Inhomogeneous de Sitter solution with scalar field and perturbations spectrum. (English summary)
Ivanov, Boiko V. Maximum bounds on the surface redshift of anisotropic stars. (English summary) (*see* **2004d:83002**)
Jain, Deepak (*with* Dev, Abha; Alcaniz, J. S.) The angular size-redshift relation in power-law cosmologies. (English summary)
Jakubi, Alejandro S. *see* **Aguirregabiria, Juan M. et al., 2004f:83097**
Jakubowicz, Antoni *see* **Glanc, B.**
Jejjala, Vishnu (*with* Leigh, Robert G.; Minic, Djordje) Deconstructing the cosmological constant. (English summary) **2004i:83158**
Jhingan, Sanjay *see* **Feinstein, Alexander**
Jimenez, D. *see* **Rosu, Haret C. et al.**
Kadota, Kenji (*with* Stewart, Ewan D.) Successful modular cosmology. (English summary) **2004g:83149**
— (*with* Stewart, Ewan D.) Inflation on moduli space and cosmic perturbations. (English summary)
Kallosh, Renata (*with* Linde, Andrei) Dark energy and the fate of the Universe. (English summary) **2004f:83102**
Kaloper, Nemanja (*with* Kleban, Matthew; Lawrence, Albion; Shenker, Stephen; Susskind, Leonard) Initial conditions for inflation. (English summary) **2004i:83159**
Karpov, O. B. Eternal expansion of a closed universe. (English and Russian summaries)
Katz, O. *see* **Guendelman, Eduardo I., 2004d:83100**
Kerr, Andrew W. (*with* Hauck, John C.; Mashhoon, Bahram) Standard clocks, orbital precession and the cosmological constant. (English summary) **2004f:83103**
Khalatnikov, Isaak M. Open static Chaplygin universe. (English summary) **2004i:83160**
(Khoury, Justin) *see* **Martin, Jérôme et al., 2004c:83160**
Khuri, Ramzi R. Dark matter as dark energy. (English summary) **2004g:83150**
— Strings, branes and an accelerating universe. (English summary) **2004k:83172**
Kiessling, Michael K.-H. The "Jeans swindle": a true story—mathematically speaking. (English summary) **2004i:83161**
Kim, Jihn E. Inflation with blowing-up solution of cosmological constant problem. (English summary) **2004a:83091**
Kinney, William H. *see* **Easther, Richard et al.**
Kirchner, U. (*with* Ellis, George F. R.) A probability measure for FLRW models. (English summary) **2004b:83160**
Kirillov, Aleksandr Albertovich Violation of the Pauli principle and dimension of the universe at very large distances. (English summary) **2004b:83161**
Kleban, Matthew *see* **Dyson, Lisa et al., 2004c:83156** *and* **Kaloper, Nemanja et al., 2004i:83159**
Kofman, Lev *see* **Frolov, Andrei V., 2004f:83101**

Kopteva, E. M. *see* **Korkina, M. P.**
Korkina, M. P. (*with* Kopteva, E. M.) Friedmann universe with the cosmological constant. (English and Ukrainian summaries)
Kornilov, D. A. *see* **Zhuravlev, V. M. et al.**
Koshelev, N. A. Scalar perturbations in inflationary models based on the non-linear sigma model. (English summary)
— *see also* **Chervon, Sergei V.**
Kotambkar, S. *see* **Singh, Gyan Prakash**
Krawiec, Adam *see* **Szydłowski, Marek, 2004k:83173**
Křížek, Michal (*with* Pradlová, Jana) On the nonexistence of a Lobachevsky geometry model of an isotropic and homogeneous universe. (English summary) **2004e:83126**
Kröger, Helmut (*with* Melkonyan, G.; Rubin, Sergei Georgievich) Cosmological dynamics of scalar field with non-minimal kinetic term. (English summary)
Lachièze-Rey, Marc Eigenmodes of dodecahedral space. (English summary) **2004m:83115**
Lara, Luis *see* **Castagnino, Mario et al., 2004i:83150** *and* **2004i:83151**
Larsen, Finn (*with* van der Schaar, Jan Pieter; Leigh, Robert G.) De Sitter holography and the cosmic microwave background. (English summary) **2004c:83159**
Lawrence, Albion *see* **Kaloper, Nemanja et al., 2004i:83159**
Lazarides, G. *see* **Dimopoulos, Konstantinos et al.**
Lazkoz Saez, R. *see* **Aguirregabiria, Juan M. et al., 2004f:83097** *and* **2004m:83109**
Lehoucq, Roland *see* **Weeks, Jeffrey et al., 2004c:83166**
Leigh, Robert G. *see* **Larsen, Finn et al., 2004c:83159** *and* **Jejjala, Vishnu et al., 2004i:83158**
Leyva, Yoelsy *see* **Arias, Olga et al.**
Li, Miao[1] *see* **Huang, Qing-Guo, 2004c:83125**
Liberati, Stefano *see* **Barceló, Carlos et al.**
Liddle, Andrew R. *see* **Malquarti, Michaël et al.**
Lidsey, James E. (*with* Nunes, N. J.) Inflation in Gauss-Bonnet brane cosmology. (English summary)
— *see also* **Hawkins, Rachael M.**
Linde, Andrei Inflationary cosmology and creation of matter in the universe. (English summary) (*see* **2004e:00015**)
— Inflationary theory versus the ekpyrotic/cyclic scenario.
— Can we have inflation with $\Omega > 1$? (English summary) **2004f:83104**
— *see also* **Kallosh, Renata, 2004f:83102**
Liu, Xin[5] *see* **Duan, Yi-Shi, 2004k:83168**
Loewy, Amit *see* **Fischler, Willy et al., 2004i:83153**
Lombardi, Olimpia *see* **Castagnino, Mario et al., 2004i:83150** *and* **2004j:83148**
Lue, Arthur *see* **Vachaspati, Tanmay**
Lyth, David H. (*with* Wands, David) Conserved cosmological perturbations. (English summary)
— *see also* **Dimopoulos, Konstantinos et al.**
Maartens, Roy *see* **Ellis, George F. R., 2004m:83112**
Maeda, Kei-ichi *see* **Mizuno, Shuntaro**
Magueijo, João *see* **Alexander, Stephon H. S. et al.**
Maharana, L. *see* **Nayak, B. K.**
Majernik, V. Cosmological model with Ω_M-dependent cosmological constant. (English summary)
— A cosmological constant interpreted as the field energy of a quaternionic field. (English summary)
Mak, Man-Kong *see* **Belinchón, José Antonio et al., 2004c:83150** *and* **Harko, T., 2004j:83150**
Maldacena, Juan Non-Gaussian features of primordial fluctuations in single field inflationary models. (English summary) **2004e:83127**
Malquarti, Michaël (*with* Copeland, Edmund J.; Liddle, Andrew R.; Trodden, Mark) A new view of k-essence. (English summary)
Maraschi, L. (*with* Tavecchio, F.) Active galactic nuclei and the properties of supermassive black holes. (English summary) (*see* **2004g:83002**)
Marcq, Emmanuel *see* **Novak, Jérôme**
Marklund, Mattias *see* **Betschart, Gerold et al.**
Martin, Jérôme (*with* Peter, Patrick; Pinto-Neto, Nelson; Schwarz, Dominik J.) Comment on: "Density perturbations in the ekpyrotic scenario" [Phys. Rev. D (3) **66** (2002), no. 4, 046005, 14 pp.; MR 2003f:83180] by J. Khoury et al. (English summary) **2004c:83160**
Martins, C. J. A. P. *see* **Avelino, P. P., 2004c:83149**
Mashhoon, Bahram *see* **Kerr, Andrew W. et al., 2004f:83103**
Mathur, Samir D. How does the universe expand? (English summary)
Mazumdar, Anupam Early universe cosmology and supergravity. (English summary) (*see* **2004m:83003**)
— *see also* **Enqvist, Kari, 2004c:83157**
McInnes, Brett The covariant entropy bound, brane cosmology, and the null energy condition. (English summary) **2004f:83105**
Melkonyan, G. *see* **Kröger, Helmut et al.**
Mel'nikov, V. N. *see* **Gavrilov, V. R. et al.**
Mena, Filipe C. (*with* Tavakol, Reza; Bruni, Marco) Second order perturbations of flat dust FLRW universes with a cosmological constant. (English summary) **2004c:83161**
Meng, Xin He (*with* Wang, Peng[2]) Cosmological evolution in $1/R$-gravity theory. (English summary)
— (*with* Wang, Peng[2]) R^2 corrections to the cosmological dynamics of inflation in the Palatini formulation. (English summary)
Minic, Djordje *see* **Jejjala, Vishnu et al., 2004i:83158**
Miritzis, John Scalar-field cosmologies with an arbitrary potential. (English summary) **2004f:83106**
Misra, Pradip *see* **Biswas, Satyabrata et al., 2004a:83087**
Mizuno, Shuntaro (*with* Maeda, Kei-ichi) Natural quintessence scenario in a brane world. (English summary)
Mohammedi, N. *see* **Bossard, A., 2004c:83154**
Montani, Giovanni *see* **Imponente, Giovanni**
Moshkov, A. Yu. *see* **Aurell, Erik et al.**
Mukohyama, Shinji Inhomogeneous tachyon decay, light-cone structure, and D-brane network problem in tachyon cosmology. (English summary) **2004a:83092**
Mureika, J. R. (*with* Dyer, C. C.) Multifractal analysis of packed Swiss cheese cosmologies. (English summary)
Murthy, Ch. C. S. V. V. Ramana *see* **Reddy, D. R. K. et al.**
Murugan, Jeff *see* **Ellis, George F. R. et al., 2004m:83113**
Myung, Yun Soo *see* **Cai, Rong-Gen, 2004h:83103**
Nambu, Yasusada (*with* Ohokata, Shin-ichi) Long-wavelength cosmological perturbation in the universe with multiple perfect fluids. (English summary) **2004b:83162**
Narlikar, Jayant V. Creation of matter and anomalous redshifts. (English summary) **2004b:83163**
Nashed, G. G. L. *see* **Buchner, K.**
Nayak, B. K. (*with* Maharana, L.) Scalar mass and the cosmological constant. (English and Russian summaries)
Nešić, Ljubiša *see* **Djordjević, Goran S. et al., 2004c:83155**
Neves, R. P. *see* **Novello, M., 2004d:83101**
Nicolai, Hermann *see* **Damour, Thibault et al., 2004e:83124**
Nojiri, Shin'ichi (*with* Odintsov, Sergei D.) The minimal curvature of the universe in modified gravity and conformal anomaly resolution of the instabilities. (English summary) **2004m:83116**
— (*with* Odintsov, Sergei D.) Quantum effects and stability of chameleon cosmology. (English summary)
North, Jill Understanding of time-asymmetry of radiation. (English summary)
Novak, Jérôme (*with* Marcq, Emmanuel) The gyromagnetic ratio of rapidly rotating compact stars in general relativity. (English summary)
Novello, M. (*with* Neves, R. P.) The mass of the graviton and the cosmological constant. (English summary) **2004d:83101**
— *see also* **Fliche, H. H. et al.**
Nunes, N. J. *see* **Lidsey, James E.**
Odintsov, Sergei D. *see* **Nojiri, Shin'ichi, 2004m:83116**
Ohokata, Shin-ichi *see* **Nambu, Yasusada, 2004b:83162**
de Oliveira, H. P. (*with* Soares, Ivano Damião) Preheating and turbulence: echoes of a not so quiet universe. (English summary) **2004i:83162**
Olsson, Martin E. *see* **Danielsson, Ulf H. et al.**
O'Neill, E. S. D. *see* **Clarkson, Chris A. et al., 2004d:83098**
(Ovrut, Burt A.) *see* **Martin, Jérôme et al., 2004c:83160**
Özdemir, N. Gravitomagnetic effects and cosmic strings. (English summary) **2004i:83163**
Paban, Sonia *see* **Fischler, Willy et al., 2004i:83153**
Padmanabhan, Thanu Cosmological constant—the weight of the vacuum. (English summary) **2004e:83128**
Palesheva, E. V. Interference of quantum particles and the Guts-Deutsch multiverse. (English and Russian summaries) **2004j:83151**
Pallikari, Fotini A random walk in a flat universe. (English summary) **2004b:83164**
Pandey, Om Prakash *see* **Pradhan, Anirudh**
Patricot, Christophe *see* **Gibbons, Gary W., 2004m:83114**
Pavón, Diego *see* **Zimdahl, Winfried**
Peebles, P. J. E. (*with* Ratra, Bharat) The cosmological constant and dark energy. (English summary) **2004c:83162**
Peter, Patrick *see* **Martin, Jérôme et al., 2004c:83160** *and* **Fabris, J. C. et al., 2004h:83105**
Piao, Yun-Song *see* **Guo, Zong-Kuan et al., 2004g:83148**
Pietroni, Massimo *see* **Comelli, D. et al.**
Pinto-Neto, Nelson *see* **Martin, Jérôme et al., 2004c:83160** *and* **Fabris, J. C. et al., 2004h:83105**
Pradhan, Anirudh (*with* Pandey, Om Prakash) Bianchi type I anisotropic magnetized cosmological models with varying Λ. (English summary)
— (*with* Singh, Sanjay Kumar) Bianchi type I magnetofluid cosmological models with variable cosmological constant revisited. (English summary)
Pradlová, Jana *see* **Křížek, Michal, 2004e:83126**
Quiroga Hurtado, John (*with* Arcos, H. I.; Ardila Urueña, William) Role of the dilatonic potential in quantum stabilization of a dilatonic anti-de Sitter universe. (English and Russian summaries) **2004i:83164**
— *see also* **Elizalde, Emilio, 2004k:83169** *and* **Brevik, Iver**
Quiros, Israel *see* **Arias, Olga et al.**
Rahaman, F. (*with* Chakraborty, Subenoy; Hossain, M.; Begum, N.; Das, S.) String cosmology in the Lyra geometry. (English summary)
Ramos, Rudnei O. *see* **Berera, Arjun**
Randall, Lisa *see* **Arkani-Hamed, Nima et al., 2004g:83146**
Ratra, Bharat *see* **Peebles, P. J. E., 2004c:83162**
Reddy, D. R. K. (*with* Murthy, Ch. C. S. V. V. Ramana; Venkateswarlu, R.) Friedmann universes with bulk viscosity in a scale covariant theory. (English summary)
Rees, Martin Our complex cosmos and its future.
Ren, Ji-Rong *see* **Zhang, Peng-Ming et al.**
Resconi, Germano *see* **Wu, Ning et al.**
Reuter, Martin *see* **Bonanno, Alfio**
Reyes, Marco A. *see* **Rosu, Haret C. et al.**
Riazuelo, A. *see* **Trotta, R. et al.**
Riotto, A. *see* **Comelli, D. et al.**
Rippis, Peter D. *see* **Grøn, Øyvind**
Rocha Filho, Tarcísio M. *see* **Figueiredo, Annibal et al., 2004a:83089** *and* **Brenig, Léon et al.**
Romero, Carlos Augusto *see* **Barros, Adriano Trindade et al.**
Roscoe, D. F. Gravitation in the fractal $D = 2$ inertial universe: new phenomenology in spiral discs and a theoretical basis for MOND. (English summary)
Rosu, Haret C. (*with* Cornejo-Pérez, Octavio; Reyes, Marco A.; Jimenez, D.) Second-order linear differential equations for effective barotropic FRW cosmologies. (English summary)
Ruan, Tu-Nan *see* **Wu, Ning et al.**
Rubano, Claudio *see* **Bonanno, Alfio et al.**
Rubin, Sergei Georgievich Origin of universes with different properties. (English and Russian summaries)
— *see also* **Kröger, Helmut et al.**
Ruiz de Austri, Roberto *see* **Dimopoulos, Konstantinos et al.**
Saa, Alberto *see* **Figueiredo, Annibal et al., 2004a:83089** *and* **Brenig, Léon et al.**
Sakai, Nobuyuki Generality of topological inflation. (English summary)
de Sá Ribeiro, R. *see* **Fabris, J. C. et al.**

Savelova, E. P. *see* **Zhuravlev, V. M. et al.**
van der Schaar, Jan Pieter Inflationary perturbations from deformed CFT. (English summary) **2004m:83117**
— *see also* **Larsen, Finn et al., 2004c:83159**
Schwarz, Dominik J. The first second of the Universe. (English summary) **2004h:83107**
— *see also* **Martin, Jérôme et al., 2004c:83160**
Sen, Anjan Ananda *see* **Bento, M. C. et al.**
Seriu, Masafumi Spectral scheme for spacetime physics. (English summary) **2004a:83093**
Shafi, Qaisar *see* **Huber, Stephan J.**
Shellard, E. P. S. The future of cosmology: observational and computational prospects.
— *see also* **Amery, G., 2004f:83098**
Shenker, Stephen *see* **Kaloper, Nemanja et al., 2004i:83159**
Shiu, Gary *see* **Easther, Richard et al.**
Silk, Joseph The cosmic microwave background. (English summary)
Singh, Gyan Prakash (*with* Kotambkar, S.) Higher-dimensional dissipative cosmology with varying G and Λ. (English and Russian summaries)
Singh, K. N. *see* **Bali, Raj et al., 2004e:83120**
Singh, Sanjay Kumar *see* **Pradhan, Anirudh**
Siopsis, George Thermodynamics of conformal field theories and cosmology. (English summary) **2004c:83163**
Skinner, David Inflation and Kähler stabilization of the dilaton. (English summary)
Sloth, Martin S. *see* **Hassan, S. F.**
Smolin, Lee The self-organization of space and time. (English summary) **2004g:83151**
Smoller, Joel (*with* Temple, Blake) Theory of a cosmic shock-wave. (English summary) **2004b:83165**
Soares, Ivano Damião *see* **de Oliveira, H. P., 2004i:83162**
Spyrou, Nicholas K. (*with* Tsagas, Christos G.) Covariant approach to the conformal dynamical equivalence in astrophysics. (English summary) **2004m:83118**
(Steinhardt, Paul J.) *see* **Martin, Jérôme et al., 2004c:83160**
Stewart, Ewan D. *see* **Kadota, Kenji, 2004g:83149**
Susskind, Leonard *see* **Dyson, Lisa et al., 2004c:83156** *and* **Kaloper, Nemanja et al., 2004i:83159**
Sussman, R. A. *see* **Clarkson, Chris A. et al., 2004d:83098**
Szydłowski, Marek (*with* Krawiec, Adam) Dynamical system approach to cosmological models with a varying speed of light. (English summary) **2004k:83173**
— *see also* **Godlowski, Włodzimierz**
Tavakol, Reza *see* **Mena, Filipe C. et al., 2004c:83161**
Tavecchio, F. *see* **Maraschi, L., (2004g:83002)**
Temple, Blake *see* **Smoller, Joel, 2004b:83165**
van Tent, Bartjan Multiple-field inflation and the CMB. (English summary)
Triay, R. Is a spatially closed universe possible? (English summary)
— *see also* **Fliche, H. H. et al.**
Trodden, Mark *see* **Malquarti, Michaël et al.**
Trotta, R. (*with* Riazuelo, A.; Durrer, R.) Cosmological constant and general isocurvature initial conditions. (English summary)
Tsagas, Christos G. *see* **Ellis, George F. R. et al., 2004m:83113** *and* **Spyrou, Nicholas K., 2004m:83118**
Tsamis, N. C. (*with* Woodard, Richard P.) General plane wave mode functions for scalar-driven cosmology. (English summary) **2004i:83165**
Turner, Michael S. The new cosmology: mid-term report card for inflation. (English summary)
Turok, Neil The ekpyrotic universe and its cyclic extension.
— *see also* **Martin, Jérôme et al., 2004c:83160** *and* **Gordon, Christopher, 2004k:83170**
Uzan, Jean-Philippe *see* **Weeks, Jeffrey et al., 2004c:83166**
Vachaspati, Tanmay The bubbling universe. (English summary)
— (*with* Lue, Arthur) Topological properties of the cosmic microwave background polarization map. (English summary)
Vanderburgh, William L. The dark matter double bind: astrophysical aspects of the evidential warrant for general relativity. (English summary)
de Vega, H. J. Early cosmology and fundamental physics. (English summary) (*see* **2004m:83002**)
Veneziano, Gabriele *see* **Gasperini, M., 2004b:83159** *and* **Bozza, V. et al., 2004f:83099**
Venkateswarlu, R. *see* **Reddy, D. R. K. et al.**
Vereshchagin, G. V. Flat cosmological models with massive scalar field in gauge theories of gravity. (English summary)
Vigoureux, B. *see* **Vigoureux, J.-M. et al., 2004b:83166**
Vigoureux, J.-M. (*with* Vigoureux, P.; Vigoureux, B.) The Einstein constant c in light of Mach's principle. Cosmological applications. (English summary) **2004b:83166**
Vigoureux, P. *see* **Vigoureux, J.-M. et al., 2004b:83166**
Vilenkin, Alexander Anthropic approach to the cosmological constant problems. (English summary)
Visser, Matt *see* **Barceló, Carlos et al.**
Wahsner, Renate Mach's philosophy, his criticism of the Newtonian space-time conception and the possibility of a deductive cosmology. (English summary) **2004c:83164**
Wands, David *see* **Lyth, David H.**
Wang, Peng[2] *see* **Meng, Xin He**
Watanabe, Tomoki (*with* Hayashi, Mitsuo J.) Gauge-invariant metric perturbations in the inflationary universe. (Japanese. English summary) **2004c:83165**
Watson, Gary Scott (*with* Brandenberger, Robert) Linear perturbations in brane gas cosmology. (English summary)
— *see also* **Brandenberger, Robert et al., 2004i:83149**
Wechsler, Risa H. *see* **Adams, Fred C. et al.**
Weeks, Jeffrey (*with* Lehoucq, Roland; Uzan, Jean-Philippe) Detecting topology in a nearly flat spherical universe. (English summary) **2004c:83166**
Weinberg, Steven Adiabatic modes in cosmology. (English summary) **2004g:83152**
Wetterich, Christof Conformal fixed point, cosmological constant, and quintessence. (English summary) **2004g:83153**
Willison, Steven *see* **Gravanis, Elias, 2004d:83099**
Woodard, Richard P. A Newtonian model for the quantum gravitational back-reaction on inflation. (English summary) **2004b:83167**
— *see also* **Tsamis, N. C., 2004i:83165**
Wu, Ning (*with* Resconi, Germano; Zheng, Zhi-Peng; Xu, Zhan; Zhang, Da-Hua; Ruan, Tu-Nan) Solution to the cosmological constant problem by gauge theory of gravity. (English summary)
Xu, Zhan *see* **Wu, Ning et al.**
Youm, Donam Variable-speed-of-light cosmology and second law of thermodynamics. (English summary) **2004e:83129**
Zhang, Da-Hua *see* **Wu, Ning et al.**
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Bezerra de Mello, Eugênio R. *see* **Spinelly, J.**
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Brandenberger, Robert *see* **Boehm, Timon, 2004e:83091**
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van de Bruck, Carsten *see* **Brax, Philippe, 2004e:83070**
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Costa, Miguel S. *see* **Cornalba, Lorenzo, 2004j:83126**

Crosta, Maria T. (*with* Vecchiato, A.; de Felice, Fernando; Lattanzi, M. G.; Bucciarelli, B.) Some aspects of relativistic astrometry from within the solar system. (English summary) **2004j:85003**

Custódio, Paulo Sérgio (*with* Horvath, J. E.) Holographic principle bounds on primordial black-hole abundances. (English summary) **2004a:83037**

Dadhich, Naresh *see* **Visser, Matt et al., 2004g:83083**

Dalakishvili, George *see* **Rogava, Andria et al., 2004g:83017**

Damour, Thibault String cosmology and chaos. (English summary) **2004m:83089**

Davies, Paul C. W. *see* **Davis, Tamara M. et al., 2004h:83049**

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Everett, L. L. *see* **Chung, D. J. H. et al.**

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Frolov, Boris N. *see* **Baburova, O. V., 2004f:83060**

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Gabadadze, Gregory *see* **Dvali, Gia et al., 2004c:83094**

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Garriga, Jaume *see* **Emparan, Roberto, 2004e:83100**

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Ghiya, Kavita *see* **Bali, Raj et al.**

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Giveon, Amit *see* **Elitzur, Shmuel et al., 2004c:83119**

Gogberashvili, Merab Gravitational trapping for extended extra dimension. (English summary) **2004e:83073**

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Gorbatsevich, A. K. *see* **Blinkovskiĭ, A. A.**

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Grishchuk, L. P. *see* **Babak, S. V.**

(Grøn, Øyvind) *see* **Errata: "Singular shell embedded into a cosmological model"**

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Harko, T. (*with* Mak, Man-Kong) Anisotropy in Bianchi-type brane cosmologies. (English summary) **2004m:83076**

Hassan, S. F. *see* **Balasubramanian, Vijay et al., 2004m:83084**

He, Yanjing *see* **Coley, Alan A., 2004c:83022**

Hervik, Sigbjørn *see* **Coley, Alan A., 2004f:83047**

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Hong, Soon-Tae *see* **Choi, Jaedong, 2004k:53103**

Horvath, J. E. *see* **Custódio, Paulo Sérgio, 2004a:83037**

Horwood, J. T. *see* **Hewitt, C. G. et al., 2004g:83027**

Hossain, Golam Mortuza The Hubble operator in isotropic loop quantum cosmology. (English summary) **2004m:83035**

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Huang, Qing-Guo (*with* Li, Miao[1]) Time varying α in $N = 8$ extended supergravity. (English summary) **2004d:83095**

Imponente, Giovanni (*with* Montani, Giovanni) On the quantum origin of the Mixmaster chaos covariance. (English summary) **2004b:83040**

Ishibashi, Akihiro *see* **Gen, Uchida et al., 2004k:83106**

Ivanov, M. G. Black holes with complex multi-string configurations. (English and Russian summaries) **2004h:83056**

Ivashchuk, Vladimir D. (*with* Mel′nikov, V. N.; Selivanov, A. B.) Cosmological solutions in multidimensional model with multiple exponential potential. (English summary) **2004j:83104**

Iwasaki, H. *see* **Ezawa, Yasuo et al., 2004i:83093**

Izumiya, Shyuichi (*with* Janeczko, Stanisław) A symplectic framework for multiplane gravitational lensing. (English summary) **2004d:83058**

Jackson, Mark G. *see* **Easther, Richard et al., 2004f:83084** *and* **2004h:83081**

Jalalzadeh, Shahram (*with* Ahmadi, Fatemeh; Sepangi, Hamid Reza) Multi-dimensional

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Janeczko, Stanisław *see* **Izumiya, Shyuichi**, **2004d:83058**

Jones, Nicholas T. (*with* Stoica, Horace; Tye, S.-H. Henry) Brane interaction as the origin of inflation. (English summary) **2004b:83116**

Kabat, Daniel *see* **Easther, Richard et al.**, **2004h:83081**

Kaganovich, Alexander *see* **Guendelman, Eduardo I.**, (**2004d:83002**)

Kallosh, Renata Cosmological constant, the brane world and supersymmetry. (English summary) **2004g:83103**

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— *see also* **Gutperle, Michael et al.**, **2004g:83117**

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Kan, Nahomi (*with* Shiraishi, Kiyoshi) Multi-graviton theory, a latticized dimension and the cosmological constant. (English summary) **2004i:83055**

Kao, Win Fun *see* **Chen, Chiang-Mei**, **2004k:83103**

Kar, Sayan *see* **Visser, Matt et al.**, **2004g:83083**

Karim, Munawar (*with* Tartaglia, Angelo; Bokhari, Ashfaque H.) Weighing the Milky Way. (English summary)

Kaya, Ali Open cosmic strings in black hole space-times. (English summary) **2004b:83066**

Kaynak, B. T. *see* **Özdemir, Fatma et al.**

Kenmoku, Masakatsu (*with* Shigemoto, Kazuyasu) Conservation of energy in black holes and in cosmology. (English and Russian summaries) **2004j:83041**

Keski-Vakkuri, Esko *see* **Balasubramanian, Vijay et al.**, **2004m:83084**

Khabibullin, Artem R. *see* **Khusnutdinov, Nail R.**

Khlebnikov, Sergei A dual description of decoherence in de Sitter space. (English summary) **2004c:83044**

Khuri, Ramzi R. (*with* Pokotilov, Andriy) Velocity-dependent forces and an accelerating universe. (English summary) **2004b:83133**

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Kling, Thomas P. *see* **Frittelli, Simonetta et al.**, **2004a:83010**

Kobayashi, Shinpei (*with* Koyama, Kazuya) Cosmology based on Hořava-Witten theory. (English summary) **2004j:83129**

Kofinas, Georgios *see* **Kiritsis, Elias et al.**, **2004c:83101**

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Koyama, Kazuya *see* **Kobayashi, Shinpei**, **2004j:83129** *and* **Soda, Jiro**, **2004k:83127**

Kragh, Helge (*with* Smith, Robert W.) Who discovered the expanding universe? **2004g:01025**

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Kremer, G. M. Brane cosmology with a van der Waals equation of state. (English summary)

Kutasov, David *see* **Elitzur, Shmuel et al.**, **2004c:83119**

Lara, Luis *see* **Castagnino, Mario et al.**, **2004d:83049**

Lattanzi, M. G. *see* **Crosta, Maria T. et al.**, **2004j:85003**

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Lehner, Luis *see* **Choptuik, Matthew W. et al.**

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Li, Xin-Zhou (*with* Hao, Jian-Gang) Kantowski-Sachs universe cannot be closed. (English summary) **2004m:83021**

Linde, Andrei *see* **Kallosh, Renata et al.**, **2004b:83148** *and* **Gutperle, Michael et al.**, **2004g:83117**

Lineweaver, Charles H. *see* **Davis, Tamara M. et al.**, **2004h:83049**

Liu, Hongya Exact global solutions of brane universes and big bounce. (English summary) **2004c:83103**

Lombardi, Olimpia *see* **Castagnino, Mario et al.**, **2004d:83049**

Lombardo, F. C. (*with* Mazzitelli, F. D.; Rivers, R. J.) Decoherence in field theory: general couplings and slow quenches. (English summary) **2004i:81156**

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Lukas, André Moving five-branes and cosmology. (English summary) (*see* **2004d:81001**)

Maartens, Roy *see* **Barrow, John D. et al.**, **2004f:83009** *and* **Campos, Antonio et al.**

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Mahurpawar, V. (*with* Deo, S. D.) A cylindrically symmetric cosmological model with cosmic cloud strings in bimetric relativity. (English summary)

Majumdar, Mahbub (*with* Davis, Anne Christine) D-brane anti-brane annihilation in an expanding universe. (English summary)

Mak, Man-Kong *see* **Harko, T.**, **2004m:83076**

Matravers, David R. *see* **Campos, Antonio et al.**

Mazzacurati, Lorenzo *see* **Casadio, Roberto**, **2004a:83058**

Mazzitelli, F. D. *see* **Lombardo, F. C. et al.**, **2004i:81156**

Mel'nikov, V. N. *see* **Ivashchuk, Vladimir D. et al.**, **2004j:83104**

Meng, Xin He (*with* Wang, Peng[2]) Modified Friedmann equations in R^{-1}-modified gravity. (English summary)

Miritzis, John Dynamical system approach to FRW models in higher-order gravity theories. (English summary) **2004e:83066**

Moffat, J. W. *see* **Clayton, M. A.**, **2004f:83062**

Mohanty, Subhendra *see* **Prasanna, A. R.**

Montani, Giovanni *see* **Imponente, Giovanni**, **2004b:83040**

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Myers, Robert C. *see* **Bousso, Raphael et al.**, **2004m:83071**

Myung, Yun Soo *see* **Cai, Rong-Gen**, **2004b:83058**

Nakamura, Akihiro[2] *see* **Ghoroku, Kazuo et al.**, **2004j:83099**

Naqvi, Asad *see* **Balasubramanian, Vijay et al.**, **2004m:83084**

Navarro, Ignacio Spheres, deficit angles and the cosmological constant. (English summary) **2004g:83107**

Neupane, Ishwaree P. *see* **Chen, Chiang-Mei et al.**, **2004h:83070**

Neves, Rui Gomes Mendonça (*with* Vaz, Cenalo) Brane dynamics, the polytropic gas and conformal bulk fields. (English summary) **2004g:83108**

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85A35 Statistical astronomy

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85A99 Miscellaneous topics

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86–XX Geophysics [see also 76U05, 76V05]

86–01 Instructional exposition (textbooks, tutorial papers, etc.)

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86–03 Historical (must also be assigned at least one classification number from Section 01)

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86–05 Experimental work

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86–06 Proceedings, conferences, collections, etc.

(Brézis, Haïm) *see* **Mathematics and environment**
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(Hunt, Julian C. R.) *see* **Wind over waves II: forecasting and fundamentals of applications, 2004k:86001**
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Grenoble ★ Mathématiques et calcul scientifique pour l'océanographie. (French) [Mathematics and computation for oceanography] **2004c:86014**
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86–08 Computational methods

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de Niet, Arie C. *see* **Weijer, Wilbert et al., 2004i:86013**

Novais, Amélia *see* **Schleicher, J. et al.**

Nuriyev, N. B. *see* **Aliev, Fikret A. et al., 2004f:86014**

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Parés, Carlos *see* **Castro-Díaz, Manuel Jesús et al., (2004e:65004)**

Park, Anthony J. *see* **Tuncay, K. et al., 2004b:86028**

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Su, Ninghu *see* **Liu, Fa Wang et al., 2004a:65121**

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Yeh, Chau-Shioung *see* **Liao, Wen-I et al., 2004j:86017**
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Grenoble ★ Mathématiques et calcul scientifique pour l'océanographie. (French) [Mathematics and computation for oceanography] **2004c:86014**
Mathematics and computation for oceanography ★ Mathématiques et calcul scientifique pour l'océanographie. (French) [Mathematics and computation for oceanography] **2004c:86014**
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86A04 General

Bauer, A. C. *see* **Pitman, E. Bruce et al., 2004m:86002**
Bursik, Marcus *see* **Pitman, E. Bruce et al., 2004m:86002**
Nichita, C. Camil *see* **Pitman, E. Bruce et al., 2004m:86002**
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Webb, A. *see* **Pitman, E. Bruce et al., 2004m:86002**

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Berson, Dimitry *see* **Kizner, Ziv et al., 2004e:86008**
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(Blayo, E.) *see* **Mathematics and computation for oceanography, 2004c:86014**
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Blundell, Jeffrey R. *see* **Killworth, Peter D., 2004c:86007** *and* **2004c:86008**
Bourdallé-Badie, Romain *see* **Drillet, Yann et al., (2004c:86014)**
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Broström, Göran *see* **Nilsson, Johan et al.**
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Castillo, José E. *see* **Torres, C. R., 2004k:86006**
Cessi, Paola *see* **Spydell, Matthew, 2004e:86010**
Chan, Kwing L. *see* **Chow, K. C., 2004g:86002**
Chen, Dake *see* **Ou, Hsien-Wang et al., 2004c:86009**
Chen, Zhangxin (*with* Ewing, Richard E.; Lu, Hao[1]; Lyons, Stephen L.; Malyasov, S. Yu.; Ray, Michael B.; Sun, Tong) Integrated two-dimensional modeling of fluid flow and compaction in a sedimentary basin. (English summary) **2004a:86007**
Chen-Charpentier, Benito M. (*with* Li, Yaqing; Suchomel, Brian) Modeling of biofilm growth in porous media at the pore scale and up-scaling. (English summary) **2004b:86011**
Chérubin, Laurent *see* **Capet, Xavier J. et al., 2004a:86006**
Chow, K. C. (*with* Chan, Kwing L.) Angular momentum transports by moving spiral waves. (English summary) **2004g:86002**
Codiga, Daniel L. (*with* Cornillon, Peter) Effects of geographic variation in vertical mode structure on the sea surface topography, energy, and wind forcing of baroclinic Rossby waves. (English summary) **2004g:86003**
Colin, Thierry Modèles stratifiés en mécanique des fluides géophysiques. (French summary) [Stratified models in geophysical fluid mechanics] (*see* **2004c:86014**)
Colin de Verdière, Alain Un fluide lent entre deux sphères en rotation rapide: les théories de la circulation océanique. (French summary) [A slow fluid between two rapidly rotating spheres: the theories of oceanic circulation] (*see* **2004c:86014**)
Cornillon, Peter *see* **Codiga, Daniel L., 2004g:86003**
Cummins, Patrick F. (*with* Vagle, Svein; Armi, Laurence; Farmer, David M.) Stratified flow over topography: upstream influence and generation of nonlinear internal waves. (English summary) **2004e:86003**
Dabaghi, F. *see* **Abdelwahed, M. et al., (2004h:00021)**
Dellar, Paul J. Common Hamiltonian structure of the shallow water equations with horizontal temperature gradients and magnetic fields. (English summary) **2004c:86005**
Dewar, William K. Convection in small basins. (English summary) **2004a:86008**
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Dijkstra, Henk A. (*with* Weijer, Wilbert; Neelin, J. David) Imperfections of the three-dimensional thermohaline circulation: hysteresis and unique-state regimes. (English summary)
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Di Martino, Bernard (*with* Flori, Fabien; Giacomoni, Catherine; Orenga, Pierre) Sur la construction des solutions approchées d'un problème de tsunami. (French summary) [Constructing approximate solutions of a tsunami problem] (*see* **2004c:86014**)
Dong, Chang-Ming *see* **Ou, Hsien-Wang et al., 2004c:86009**
Dotsenko, S. F. *see* **Rubino, Angelo et al.**
Drillet, Yann (*with* Bourdallé-Badie, Romain; Siefridt, Laure) Tests de sensibilité dans le modèle haute résolution Mercator. (French summary) [Sensitivity tests for the Mercator high-resolution model] (*see* **2004c:86014**)
Dritschel, David G. *see* **Viúdez, Álvaro, 2004i:86012**
Druzhinin, O. A. Collapse and self-similarity of a turbulent jet in a pycnocline. (Russian. Russian summary)
Duan, Jinqiao (*with* Schmalfuss, Björn) The 3D quasigeostrophic fluid dynamics under random forcing on boundary. (English summary) **2004e:86004**
Dubovikov, Mikhail S. Dynamic model of mesoscale eddies. (English summary)
Durland, Theodore S. (*with* Qiu, Bo) Transmission of subinertial Kelvin waves through a strait. (English summary)
Eden, Carsten *see* **Olbers, Dirk, 2004i:86009**
Egbert, Gary D. (*with* Ray, Richard D.) Deviation of long-period tides from equilibrium: kinematics and geostrophy. (English summary) **2004b:86012**
El′tsov, I. N. *see* **Kashevarov, A. A. et al.**
Èpov, M. I. *see* **Kashevarov, A. A. et al.**
Ewing, Richard E. *see* **Chen, Zhangxin et al., 2004a:86007**
Farmer, David M. *see* **Cummins, Patrick F. et al., 2004e:86003** *and* **Gemmrich, Johannes R.**
Farrell, Brian F. *see* **Heifetz, Eyal, 2004g:86004**
Faugeras, Blaise On the well-posedness of a coupled one-dimensional biological-physical model for the upper ocean. (English summary) **2004e:86005**
Federici, B. (*with* Seminara, G.) On the convective nature of bar instability. (English summary) **2004i:86001**
Ferrari, Raffaele *see* **Fox-Kemper, Baylor et al., 2004d:86003** *and* **Polzin, K. L.**
Filatoff, Nicolas *see* **Carton, Xavier et al., (2004c:86014)**
Flori, Fabien *see* **Di Martino, Bernard et al., (2004c:86014)**
Forbes, Lawrence K. (*with* Hocking, Graeme C.; Wotherspoon, Simon) Salt-water upconing during extraction of fresh water from a tropical island. (English summary) **2004k:86004**
Fowler, A. C. Compaction and diagenesis. (English summary) **2004a:86010**
Fox-Kemper, Baylor (*with* Ferrari, Raffaele; Pedlosky, Joseph) On the indeterminacy of rotational and divergent eddy fluxes. (English summary) **2004d:86003**
Fringer, Oliver B. (*with* Street, Robert L.) The dynamics of breaking progressive interfacial waves. (English summary) **2004i:86002**
Frolov, Sergei A. (*with* Sutyrin, G. G.; Ginis, Isaac) Asymmetry of an equilibrated gulf

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Gagneux, Gérard *see* **Antontsev, Stanislav et al.**, (2004h:00021)
Garner, Stephen T. *see* **Schneider, Tapio et al., 2004a:86011**
Gemmrich, Johannes R. (*with* Farmer, David M.) Near-surface turbulence in the presence of breaking waves. (English summary)
Gentz, Barbara *see* **Berglund, Nils, 2004c:86003**
Ghil, Michael *see* **Simonnet, Eric et al., 2004f:86004a** *and* **2004f:86004b**
Giacomoni, Catherine *see* **Di Martino, Bernard et al.**, (2004c:86014)
Ginis, Isaac *see* **Sutyrin, G. G. et al.** *and* **Frolov, Sergei A. et al.**
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Goncharov, Valerĭ V. (*with* Gorbatskii, V. V.; Sabinin, K. D.) Internal waves in a homogeneous sea. (Russian)
Gorbatskii, V. V. *see* **Goncharov, Valerĭ V. et al.**
Greatbatch, Richard J. (*with* McDougall, Trevor J.) The non-Boussinesq temporal residual mean. (English summary) **2004f:86001**
Gurarie, David Long-range dynamics of a shallow water triad: renormalization, modulation, and cyclogenesis. (English summary) **2004f:86002**
Heifetz, Eyal (*with* Farrell, Brian F.) Generalized stability of nongeostrophic baroclinic shear flow. I. Large Richardson number regime. (English summary) **2004g:86004**
Held, Isaac M. *see* **Schneider, Tapio et al., 2004a:86011** *and* **Lapeyre, G.**
Helfrich, Karl R. (*with* Pratt, Lawrence J.) Rotating hydraulics and upstream basin circulation. (English summary) **2004e:86006**
Henrique G., Jose (*with* Alves, G. M.; Banner, Michael L.; Young, Ian R.) Revisiting the Pierson-Moskowitz asymptotic limits for fully developed wind waves. (English summary) **2004f:86003**
Hernández-García, Emilio *see* **López, Cristóbal, 2004i:86008**
Hobbs, B. E. *see* **Zhao, Chongbin et al., 2004c:86013**
Hocking, Graeme C. *see* **Forbes, Lawrence K. et al., 2004k:86004**
Holloway, Greg Toward a statistical ocean dynamics. (English summary) (*see* **2004d:76004**)
Høydalsvik, Frode (*with* Weber, Jan Erik) Mass transport velocity in free barotropic Poincaré waves. (English summary)
Hrissanthou, V. *see* **Bellos, C.**
Hua, Bach Lien (*with* Marin, Frédéric; Schopp, Richard) Three-dimensional dynamics of the subsurface countercurrents and equatorial thermostad. I. Formulation of the problem and generic properties. (English summary) **2004j:86003**
— *see also* **Marin, Frédéric et al., 2004j:86004**
Huang, Hu A generalized wave action conservative equation for the dissipative dynamical system in the nearshore region. (English summary) **2004g:86005**
Huck, Thierry *see* **Bresch, Didier et al.**, (2004c:86014)
Ide, Kayo *see* **Simonnet, Eric et al., 2004f:86004a** *and* **2004f:86004b**
Il'ichev, A. T. *see* **Tsypkin, George**
Imberger, Jörg *see* **Stocker, Roman, 2004e:86011**
Inverarity, G. W. Numerically inverting a class of singular Fourier transforms: theory and application to mountain waves. (English summary) **2004e:86007**
Jamali, Mirmosadegh Topographic effects on establishment of selective withdrawal. (English summary) **2004i:86003**
Janssen, Peter A. E. M. Nonlinear four-wave interactions and freak waves. (English summary) **2004c:86006**
Jiang, Qingfang (*with* Smith, Ronald B.) Gravity wave breaking in two-layer hydrostatic flow. (English summary) **2004b:86013**
Johnson, Gregory C. *see* **Kessler, William S. et al.**
Kagan, B. A. Weak wave-tide interaction over a movable bottom: a sensitivity study. (Russian. Russian summary) **2004i:86004**
Kamenetskiĭ, E. S. (*with* Radionov, A. A.) Dispersal of pollutants in mountain valleys. (Russian. Russian summary)
Kanarskaya, Yu. V. A mathematical model of nonhydrostatic flows in generalized curvilinear coordinates. (Russian. English, Russian and Ukrainian summaries)
Kashevarov, A. A. (*with* El'tsov, I. N.; Èpov, M. I.) A hydrodynamic model of the formation of an invaded zone in borehole drilling. (Russian. Russian summary)
Kessler, William S. (*with* Johnson, Gregory C.; Moore, Dennis W.) Sverdrup and nonlinear dynamics of the pacific equatorial currents. (English summary)
Kharif, Christian (*with* Pelinovskiĭ, E. N.) Physical mechanisms of the rogue wave phenomenon. (English summary) **2004i:86005**
Khvedelidze, Z. The structure of baroclinic waves with account of the Earth's relief. (English and Georgian summaries)
Kiladis, George N. *see* **Straub, Katherine H., 2004i:86010**
Killworth, Peter D. (*with* Blundell, Jeffrey R.) Long extratropical planetary wave propagation in the presence of slowly varying mean flow and bottom topography. I. The local problem. (English summary) **2004c:86007**
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Kizner, Ziv (*with* Berson, Dimitry; Reznik, G. M.; Sutyrin, G. G.) The theory of the beta-plane baroclinic topographic modons. (English summary) **2004e:86008**
Kuhlbrodt, Till (*with* Monahan, Adam Hugh) Stochastic stability of open-ocean deep convection. (English summary) **2004i:86006**
Kunze, Eric *see* **Polzin, K. L. et al.**
Lacorata, Guglielmo (*with* Pasmanter, Rubén A.; Vulpiani, Angelo) Markov chain approach to a process with long-time memory. (English summary) **2004d:86004**
Lamb, Kevin G. On boundary-layer separation and internal wave generation at the Knight Inlet sill. (English summary)
Lapeyre, G. (*with* Held, Isaac M.) Diffusivity, kinetic energy dissipation, and closure theories for the poleward eddy heat flux. (English summary)
Lavrenov, Igor V. (*with* Polnikov, V. G.) Nonlinear energy transfer over the wave spectrum in water covered by solid ice. (Russian. Russian summary)
Le Dimet, François Xavier (*with* Blum, Jacques) Assimilation de données pour les fluides géophysiques. [Data assimilation for geophysical fluids]
Legg, Sonya Internal tides generated on a corrugated continental slope. I. Cross-slope barotropic forcing. (English summary)
Leibovich, Sidney *see* **Bhaskaran, Rajesh, 2004b:86008**
Le Sommer, J. (*with* Medvedev, S. B.; Plougonven, R.; Zeitlin, Vladimir) Singularity formation during relaxation of jets and fronts toward the state of geostrophic equilibrium. (English summary) **2004h:86003**
(Li, Ta Tsien) *see* **Mathematics and computation for oceanography, 2004c:86014**
Li, Yaqing *see* **Chen-Charpentier, Benito M. et al., 2004b:86011**
Lin, Ge *see* **Zhao, Chongbin et al., 2004c:86013**
Liu, Philip L.-F. *see* **Lynett, Patrick, 2004d:86005**
Llewellyn Smith, Stefan G. (*with* Young, W. R.) Tidal conversion at a very steep ridge. (English summary) **2004i:86007**
Longuet-Higgins, M. S. Standing waves in the ocean. (English summary) (*see* **2004k:86001**)
López, Cristóbal (*with* Hernández-García, Emilio) Low-dimensional dynamical system model for observed coherent structures in ocean satellite data. (English summary) **2004i:86008**
Lu, Hao[1] *see* **Chen, Zhangxin et al., 2004a:86007**
Lynett, Patrick (*with* Liu, Philip L.-F.) A numerical study of submarine-landslide-generated waves and run-up. (English summary) **2004d:86005**
Lyons, Stephen L. *see* **Chen, Zhangxin et al., 2004a:86007**
Majda, Andrew J. *see* **Abramov, Rafail V., 2004b:86006**
Malyasov, S. Yu. *see* **Chen, Zhangxin et al., 2004a:86007**
Marcotte, D. *see* **Brochu, Y., 2004b:86009**
Marin, Frédéric (*with* Schopp, Richard; Hua, Bach Lien) Three-dimensional dynamics of the subsurface countercurrents and equatorial thermostad. II. Influence of the large-scale ventilation and of equatorial winds. (English summary) **2004j:86004**
— *see also* **Hua, Bach Lien et al., 2004j:86003**
Marshall, J. C. *see* **Radko, Timour, 2004b:86015**
Masuda, Akira (*with* Okuno, Akira) Quasi-geostrophic turbulence in a one-layer ocean affected by horizontal divergence. (English summary) (*see* **2004d:76004**)
— *see also* **Mizuta, Genta, 2004d:86006**
McDougall, Trevor J. Potential enthalpy: a conservative oceanic variable for evaluating heat content and heat fluxes. (English summary) **2004g:86006**
— *see also* **Greatbatch, Richard J., 2004f:86001**
Medvedev, S. B. *see* **Le Sommer, J. et al., 2004h:86003**
Mellor, George The three-dimensional current and surface wave equations. (English summary) **2004h:86004**
Menzaque, Fernando (*with* Rosales, Rodolfo R.; Tabak, Esteban G.; Turner, Cristina Vilma) Response to resonant and near-resonant forcing in a simple model for nonlinear energy cascades. (English summary) **2004b:86014**
Miles, John Wilder (*with* Sneyd, A. D.) The response of a floating ice sheet to an accelerating line load. (English summary) **2004m:86003**
Mizuta, Genta (*with* Masuda, Akira) An application of a diffusive reduced-gravity model to deep circulation above various forms of bottom topography. (English summary) **2004d:86006**
Monahan, Adam Hugh *see* **Kuhlbrodt, Till, 2004i:86006**
Montes Díez, R. *see* **Ríos Insua, David et al., 2004e:86009**
Moore, Dennis W. *see* **Kessler, William S. et al.**
Morel, Yves *see* **Capet, Xavier J. et al., 2004a:86006**
Mühlhaus, H. B. *see* **Zhao, Chongbin et al., 2004c:86013**
Murashige, Sunao *see* **Tanaka, Gouhei et al.**
Nadau, Lionel (*with* Amara, Mohamed; Trujillo, David) Multiphase flows in a sedimentary basin. (English summary) (*see* **2004h:00021**)
Naval, I. K. *see* **Sviridov, Yu. B., 2004j:86008**
Neelin, J. David *see* **Dijkstra, Henk A. et al.**
de Niet, Arie C. *see* **Weijer, Wilbert et al., 2004i:86013**
Nilsson, Johan (*with* Broström, Göran; Walin, Gösta) The thermohaline circulation and vertical mixing: does weaker density stratification give stronger overturning? (English summary)
Öksüzoğlu, Hakan *see* **Weijer, Wilbert et al., 2004i:86013**
Okuno, Akira *see* **Masuda, Akira**, (2004d:76004)
Olbers, Dirk (*with* Eden, Carsten) A simplified general circulation model for a baroclinic ocean with topography. I. Theory, waves, and wind-driven circulations. (English summary) **2004i:86009**
Ord, A. *see* **Zhao, Chongbin et al., 2004c:86013**
Orenga, Pierre *see* **Di Martino, Bernard et al.**, (2004c:86014)
Ou, Hsien-Wang (*with* Dong, Chang-Ming; Chen, Dake) Tidal diffusivity: a mechanism for frontogenesis. (English summary) **2004c:86009**
Palomo, J. *see* **Ríos Insua, David et al., 2004e:86009**
Pasmanter, Rubén A. *see* **Lacorata, Guglielmo et al., 2004d:86004**
Pedlosky, Joseph *see* **Fox-Kemper, Baylor et al., 2004d:86003**
Peirson, William L. (*with* Banner, Michael L.) Aqueous surface layer flows induced by microscale breaking wind waves.
Pelinovskiĭ, E. N. *see* **Kharif, Christian, 2004i:86005**
Phillips, W. R. C. Langmuir circulations. (English summary) (*see* **2004k:86001**)
Plougonven, R. *see* **Le Sommer, J. et al., 2004h:86003**
Polnikov, V. G. *see* **Lavrenov, Igor V.**
Polzin, K. L. (*with* Kunze, Eric; Toole, J. M.; Schmitt, R. W.) The partition of finescale energy into internal waves and subinertial motions. (English summary)
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— (*with* Ferrari, Raffaele) Isopycnal dispersion in NATRE. (English summary)
Pratt, Lawrence J. *see* **Helfrich, Karl R., 2004e:86006**
Qiu, Bo *see* **Durland, Theodore S.**
Radionov, A. A. *see* **Kamenetskiĭ, E. S.**
Radko, Timour A mechanism for layer formation in a double-diffusive fluid. (English summary) **2004j:86005**
— (*with* Marshall, J. C.) Equilibration of a warm pumped lens on a β plane. (English summary) **2004b:86015**

Rahman, Matiur (*with* Sharma, Swastika) Nonlinear wave-wave interactions. (English summary) **2004j:86006**
Ray, Michael B. *see* **Chen, Zhangxin et al., 2004a:86007**
Ray, Richard D. *see* **Egbert, Gary D., 2004b:86012**
Reznik, G. M. *see* **Kizner, Ziv et al., 2004e:86008**
Ríos Insua, David (*with* Montes Díez, R.; Palomo, J.) Bayesian methods in hydrology: a review. (English and Spanish summaries) **2004e:86009**
Rosales, Rodolfo R. *see* **Menzaque, Fernando et al., 2004b:86014**
Rothstein, L. M. *see* **Sutyrin, G. G. et al.**
Rowe, G. D. *see* **Sutyrin, G. G. et al.**
Rubino, Angelo (*with* Dotsenko, S. F.; Brandt, Peter) Near-inertial oscillations of geophysical surface frontal currents. (English summary)
Sabinin, K. D. *see* **Goncharov, Valeriĭ V. et al.**
Sakamoto, Toshihiro A route to Eulerian chaos in a two-layer wind-driven ocean. (English summary) **2004j:86007**
Schmalfuss, Björn *see* **Duan, Jinqiao, 2004e:86004**
Schmitt, R. W. *see* **Polzin, K. L. et al.**
Schneider, Tapio (*with* Held, Isaac M.; Garner, Stephen T.) Boundary effects in potential vorticity dynamics. (English summary) **2004a:86011**
Schopp, Richard *see* **Hua, Bach Lien et al., 2004j:86003** *and* **Marin, Frédéric et al., 2004j:86004**
Semenova, I. P. (*with* Slezkin, L. N.) Dynamically equilibrium shape of intrusive vortex formations in the ocean. (Russian. Russian summary) **2004k:86005**
Seminara, G. *see* **Federici, B., 2004i:86001**
Sharma, Swastika *see* **Rahman, Matiur, 2004j:86006**
Siefridt, Laure *see* **Drillet, Yann et al., (2004c:86014)**
Simon, Jacques *see* **Bresch, Didier, 2004a:86005**
Simonnet, Eric (*with* Tatchim Medjo, T.; Temam, Roger) Barotropic -baroclinic formulation of the primitive equations of the ocean. (English summary) **2004c:86010**
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Slezkin, L. N. *see* **Semenova, I. P., 2004k:86005**
Smith, Ronald B. *see* **Jiang, Qingfang, 2004b:86013**
Smyth, William D. (*with* Winters, Kraig B.) Turbulence and mixing in Holmboe waves. (English summary) **2004c:86011**
Sneyd, A. D. *see* **Miles, John Wilder, 2004m:86003**
Spydell, Matthew (*with* Cessi, Paola) Baroclinic modes in a two-layer basin. (English summary) **2004e:86010**
Stirling, J. R. Chaotic advection, transport and patchiness in clouds of pollution in an estuarine flow. (English summary) **2004c:86012**
Stocker, Roman (*with* Imberger, Jörg) Energy partitioning and horizontal dispersion in a stratified rotating lake. (English summary) **2004e:86011**
Straub, Katherine H. (*with* Kiladis, George N.) The observed structure of convectively coupled Kelvin waves: comparison with simple models of coupled wave instability. (English summary) **2004i:86010**
Street, Robert L. *see* **Fringer, Oliver B., 2004i:86002**
Suchomel, Brian *see* **Chen-Charpentier, Benito M. et al., 2004b:86011**
Sukhinov, A. I. *see* **Vasil′ev, Vladislav Sergeevich**
Sun, Tong *see* **Chen, Zhangxin et al., 2004a:86007**
Sutyrin, G. G. (*with* Rowe, G. D.; Rothstein, L. M.; Ginis, Isaac) Baroclinic eddy interactions with continental slopes and shelves. (English summary)
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Sviridov, Yu. B. (*with* Naval, I. K.) Mathematical modeling of processes of water transfer along a river bed in the presence of discrete and continuous distributions of discharge sources. (Russian. English summary) **2004j:86008**
Swaters, Gordon E. Baroclinic characteristics of frictionally destabilized abyssal overflows. (English summary) **2004h:86005**
Sy, Mamadou *see* **Bresch, Didier et al., (2004c:86014)**
Tabak, Esteban G. *see* **Menzaque, Fernando et al., 2004b:86014**
Tailleux, Rémi Creation and coupling of Rossby waves over topography and the breakdown of WKB theory. (English summary) (*see* **2004c:86014**)
Tanaka, Gouhei (*with* Murashige, Sunao; Aihara, Kazuyuki) Bifurcation structures of period-adding phenomena in an ocean internal wave model. (English summary)
Tatchim Medjo, T. *see* **Simonnet, Eric et al., 2004c:86010**
Temam, Roger Quelques remarques sur les équations de l'atmosphère et de l'océan. [Some remarks on the atmosphere and ocean equations]
— *see also* **Simonnet, Eric et al., 2004c:86010; 2004f:86004a** *and* **2004f:86004b**
Tkachenko, Vadim Aleksandrovich (*with* Yakovlev, V. V.) Nonlinear-dispersive model of surface wave transformation in littoral zone of sea covered with ice. (English summary) **2004a:86012**
Toole, J. M. *see* **Polzin, K. L. et al.**
Torres, C. R. (*with* Castillo, José E.) Stratified rotating flow over complex terrain. (English summary) **2004k:86006**
Trujillo, David *see* **Amara, Mohamed et al., 2004j:86002** *and* **Nadau, Lionel et al., (2004h:00021)**
Tsypkin, George (*with* Il′ichev, A. T.) Gravitational stability of the interface in water over steam geothermal reservoirs. (English summary)
Turner, Cristina Vilma *see* **Menzaque, Fernando et al., 2004b:86014**
Vagle, Svein *see* **Cummins, Patrick F. et al., 2004e:86003**
Vallet, Guy Sur une loi de conservation issue de la géologie. (English and French summaries) [On a conservation law arising from geology] **2004i:86011**
— *see also* **Antontsev, Stanislav et al., (2004h:00021)**
Vasil′ev, Vladislav Sergeevich (*with* Sukhinov, A. I.) Precise two-dimensional models of shallow water basins. (Russian. English and Russian summaries)
Viúdez, Álvaro (*with* Dritschel, David G.) Vertical velocity in mesoscale geophysical flows. (English summary) **2004i:86012**
Vulpiani, Angelo *see* **Lacorata, Guglielmo et al., 2004d:86004**
Walin, Gösta *see* **Nilsson, Johan et al.**
Wang, Shou Hong *see* **Simonnet, Eric et al., 2004f:86004a** *and* **2004f:86004b**
Weber, Jan Erik *see* **Høydalsvik, Frode**
Weijer, Wilbert (*with* Dijkstra, Henk A.; Öksüzoğlu, Hakan; Wubs, Fred W.; de Niet, Arie C.) A fully-implicit model of the global ocean circulation. (English summary) **2004i:86013**
— *see also* **Dijkstra, Henk A. et al.**
Williams, Gareth P. Barotropic instability and equatorial superrotation. (English summary) **2004g:86007**
Winters, Kraig B. *see* **Smyth, William D., 2004c:86011**
Wotherspoon, Simon *see* **Forbes, Lawrence K. et al., 2004k:86004**
Wu, Tai Tsun *see* **Carrier, George F. et al., 2004h:86002**
Wubs, Fred W. *see* **Weijer, Wilbert et al., 2004i:86013**
Yakovlev, V. V. *see* **Tkachenko, Vadim Aleksandrovich, 2004a:86012**
Yeh, Harry *see* **Carrier, George F. et al., 2004h:86002**
Young, Ian R. *see* **Henrique G., Jose et al., 2004f:86003**
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Gallas, Jason A. C. *see* **Gonçalves Lind, Pedro et al., 2004j:37154**
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García-Navarro, P. *see* **Brufau, P., 2004b:76114** *and* **Burguete, Javier[1], 2004m:76108**
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Grenier, Emmanuel *see* **Gérard-Varet, David, 2004m:76169**
Grimshaw, Roger H. J. *see* **Reznik, G. M., 2004c:76024**
Guillen-Gonzalez, Francisco *see* **Bresch, Didier et al., 2004a:35169**; **2004c:76038**; **2004j:76032**; **2004m:35101** *and* **2004m:76168**
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Hager, Jörgen (*with* Whitaker, Stephen) The thermodynamic significance of the local volume averaged temperature. (English summary) **2004c:80001**
Haidvogel, D. B. *see* **Iskandarani, Mohamed et al., 2004b:86003**
Hamill, Thomas M. *see* **Snyder, Christopher Martin, 2004c:86024**
Hanazaki, Hideshi Linear processes in stratified turbulence with rotation or mean shear. (English summary) **2004j:76088**
Hancock, Matthew J. *see* **Mei, Chiang C., 2004h:76026**
van Heijst, G. J. F. *see* **Zavala Sansón, L., 2004a:76132**
Herreros, M. I. *see* **Quecedo, M. et al., 2004j:76102**
Högström, U. *see* **Smedman, A.-S. et al., (2004k:86001)**
Hollerbach, Rainer Instabilities of the Stewartson layer I. The dependence on the sign of *Ro*. (English summary) **2004i:76103**
Howard, Lou *see* **Deng, Jian et al., 2004g:76034**
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Iacono, Roberto On the existence of Arnold-stable barotropic flows on a rotating sphere. (English summary) **2004i:76109**
Il'ichev, A. T. *see* **Bakholdin, I. B., 2004f:76012**
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Keller, Joseph B. Shallow-water theory for arbitrary slopes of the bottom. (English summary) **2004i:76026**
Khubezhty, Sh. S. *see* **Muzaev, Illarion Davidovich**
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King, Stuart E. (*with* Woods, Andrew W.) Dipole solutions for viscous gravity currents: theory and experiments. (English summary) **2004i:76081**
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Koudella, C. R. *see* **Reinaud, J. N. et al., 2004h:76040**
Kozlov, V. F. *see* **Izrailsky, Yu. G. et al., 2004g:76079**
Kudryavtsev, V. N. *see* **Makin, V. K., (2004k:86001)**
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Kurths, Jürgen *see* **Gonçalves Lind, Pedro et al.**
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Langford, William F. *see* **Rusu, Dan D., 2004h:76084**
Larsen, X. G. *see* **Smedman, A.-S. et al., (2004k:86001)**
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Layton, Anita T. A semi-Lagrangian collocation method for the shallow water equations on the sphere. (English summary) **2004c:65112**
Lee, Jihoon *see* **Chae, Dongho, 2004k:76031**
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Leibovich, Sidney *see* **Chini, G. P., 2004i:76041**
Lemoine, Jérôme *see* **Bresch, Didier et al., 2004m:35101**
Levin, J. C. *see* **Iskandarani, Mohamed et al., 2004b:86003**
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Lukyanov, P. V. (*with* Stetsenko, Olexandr Grygorovych; Maderich, V. S.) Visco-diffusive stage of two-dimensional mixed patch's evolution in the field of internal wave. (English summary) **2004d:76023**
Lyaghfouri, Abdeslem *see* **Challal, Samia, 2004d:35255**
Lykosov, V. N. *see* **Glazunov, A. V., 2004g:86009**
Lynett, Patrick *see* **Liu, Philip L.-F. et al., 2004h:76024**
Ma, Tian (*with* Wang, Shou Hong) Topology of 2-D incompressible flows and applications to geophysical fluid dynamics. (English and Spanish summaries) **2004c:37037**
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Macías Sánchez, Jorge *see* **Castro-Díaz, Manuel Jesús et al., 2004m:76109**
Maderich, V. S. *see* **Lukyanov, P. V. et al., 2004d:76023**
Mahalov, Alexis S. *see* **Babin, Anatolii V. et al., 2004i:76045**
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Makin, V. K. (*with* Kudryavtsev, V. N.) Wind-over-waves coupling. (English summary) (*see* **2004k:86001**)
Makrakis, George N. Parabolic approximation of nonlocal boundary conditions for elastic seabeds. (English summary) **2004b:76134**
Manam, S. R. *see* **Chakrabarti, Aloknath et al., 2004a:76020**
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Marinoschi, Gabriela *see* **Barbu, Viorel, 2004j:76142**
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Martínez Varela, A. M. *see* **Bermúdez de Castro, Alfredo et al.**
Masmoudi, Nader *see* **Bresch, Didier et al., 2004a:35169; 2004c:76038** *and* **2004j:76032**
Masson, Roland *see* **Scheichl, R. et al., 2004j:76154**
Maugeri, M. (*with* Ragusa, Alfio; Torrisi, M.) Underground pollution: some solutions of the transport equation. (English summary)
McDonald, N. Robb *see* **Johnson, Edward R., 2004k:76023**
McKiver, William J. (*with* Dritschel, David G.) The motion of a fluid ellipsoid in a general linear background flow. **2004h:76159**
McWilliams, James C. (*with* Graves, Lee P.; Montgomery, Michael T.) A formal theory for vortex Rossby waves and vortex evolution. (English summary) **2004e:76033**
Medvedev, S. B. *see* **Zeitlin, Vladimir et al., 2004i:76190**
Mei, Chiang C. (*with* Hancock, Matthew J.) Weakly nonlinear surface waves over a random seabed. (English summary) **2004h:76026**
— *see also* **Huang, Zhenhua, 2004m:76024**
Mémin, E. *see* **Corpetti, T. et al., 2004j:76122**
Miglio, Edie (*with* Quarteroni, Alfio; Saleri, Fausto) Mathematical modelling of free surface flows. **2004m:76057**
Mikelić, Andro (*with* Devigne, Vincent) Écoulement tangentiel sur une surface rugueuse et loi de Navier. (French summary) [Tangential flow on a rough surface and Navier law] (*see* **2004c:86014**)
Montgomery, Michael T. *see* **McWilliams, James C. et al., 2004e:76033**
Moodie, T. B. *see* **Antar, Nalan, 2004e:76015**
Muñoz Ruiz, María Luz *see* **Castro-Díaz, Manuel Jesús et al.**
Murphy, Joseph E. (*with* Chin-Bing, Stanley A.) Computational ocean-seismoacoustic modeling using finite elements. (English summary) **2004i:76169**
Muzaev, Illarion Davidovich (*with* Khubezhty, Sh. S.) Development of the mathematical theory of internal gravity waves in narrow deep reservoirs of variable width. (Russian. Russian summary)
— (*with* Tuaeva, Zh. D.) Mathematical modeling of internal gravity waves in a stratified reservoir with selective water intake. (Russian. English and Russian summaries)
— (*with* Tuaeva, Zh. D.) Mathematical modeling of transients in the selective water intake from a stratified reservoir. (Russian. Russian summary)
Myers, T. G. Unsteady laminar flow over a rough surface. (English summary) **2004d:76007**
Nachbin, André (*with* Sølna, Knut) Apparent diffusion due to topographic microstructure in shallow waters. (English summary) **2004b:76025**
— A terrain-following Boussinesq system. (English summary) **2004c:76022**
Nagata, Wayne *see* **Lewis, Gregory M.**
Nicolaenko, Basil *see* **Babin, Anatolii V. et al., 2004i:76045**
Olbers, Dirk A gallery of simple models from climate physics. (English summary) **2004b:86023**
Orenga, Pierre *see* **Giacomoni, Catherine, 2004a:76114**
Orlandi, Paolo *see* **Carnevale, George F. et al., 2004h:76042**
Ortoleva, P. *see* **Tuncay, K., 2004a:76129**
Osses, Axel *see* **Fernández-Cara, Enrique et al., 2004h:93134**
Padden, W. E. P. *see* **Macaskill, C. et al., 2004c:76030**
Parés, Carlos *see* **Castro-Díaz, Manuel Jesús et al., 2004m:76109**
Pastor, M. *see* **Quecedo, M. et al., 2004j:76102**
Pedlosky, Joseph (*with* Thomson, Jim) Baroclinic instability of time-dependent currents. (English summary) **2004i:76110**
— *see also* **Bracco, Annalisa, 2004d:76017** *and* **Poulin, Francis J. et al., 2004i:76111**
Pelinovskiĭ, E. N. *see* **Kurkin, A. A., 2004j:76017**
Peltier, W. R. *see* **Potylitsin, P. G., 2004h:76039**
Pereira, Felipe *see* **Furtado, Frederico, 2004c:76143**
Pérez, Patrick *see* **Corpetti, T. et al., 2004j:76122**
Perthame, Benoît *see* **Bouchut, François et al., 2004c:76017**
Petcu, M. (*with* Temam, Roger; Wirosoetisno, D.) Existence and regularity results for the primitive equations in two space dimensions. (English summary) **2004m:76171**
Plougonven, R. *see* **Zeitlin, Vladimir et al., 2004i:76190**
Polukhina, O. E. *see* **Dubinina, V. A. et al., 2004i:76019**
Porter, David[1] The mild-slope equations. (English summary) **2004i:76034**
Porter, Richard *see* **Evans, D. V., 2004i:76021**
Posvyanskii, Vladimir S. *see* **Dinaburg, Efim I. et al., 2004m:76054**
Potylitsin, P. G. (*with* Peltier, W. R.) On the nonlinear evolution of columnar vortices in a rotating environment. (English summary) **2004h:76039**
Poulin, Francis J. (*with* Flierl, Glenn R.; Pedlosky, Joseph) Parametric instability in oscillatory shear flows. (English summary) **2004i:76111**
— (*with* Flierl, Glenn R.) The nonlinear evolution of barotropically unstable jets. (English summary) **2004g:76030**
Pouquet, Annick (*with* Rosenberg, Duane; Clyne, John) Computational challenges for global dynamics of fully developed turbulence in the context of geophysical flows. (English summary) (*see* **2004d:76004**)

Pratt, Lawrence J. *see* **Deng, Jian et al., 2004g:76034**
Prechtel, A. *see* **Knabner, Peter et al., (2004d:00011)**
Pudasaini, Shiva P. (*with* Eckart, Winfried; Hutter, Kolumban) Gravity-driven rapid shear flows of dry granular masses in helically curved and twisted channels. (English summary) **2004f:76110**
Quarteroni, Alfio *see* **Miglio, Edie et al., 2004m:76057**
Quecedo, M. (*with* Pastor, M.; Herreros, M. I.; Fernández Merodo, J. A.) Numerical modelling of the propagation of fast landslides using the finite element method. (English summary) **2004j:76102**
Ragusa, Alfio *see* **Maugeri, M. et al.**
Ramamonjiarisoa, Alfred *see* **Joelson, Maminirina, 2004i:76025**
Redekopp, Larry G. A KdV model for multi-modal internal wave propagation in confined basins. (English summary) **2004b:76038**
Reich, Sebastian *see* **Cotter, C. J., 2004m:76119**
Reinaud, J. N. (*with* Dritschel, David G.; Koudella, C. R.) The shape of vortices in quasi-geostrophic turbulence. **2004h:76040**
Reitzinger, Stefan *see* **Douglas, Craig C. et al., 2004e:65117**
Reznik, G. M. (*with* Grimshaw, Roger H. J.) Nonlinear geostrophic adjustment in the presence of a boundary. (English summary) **2004c:76024**
— *see also* **Zeitlin, Vladimir et al., 2004j:76163**
Riley, David S. *see* **Sansom, Ahmos et al., 2004j:76010**
Roberts, Mary F. *see* **Roberts, Paul H. et al., 2004e:80005**
Roberts, Paul H. (*with* Loper, David E.; Roberts, Mary F.) Convective instability of a mushy layer. I. Uniform permeability. (English summary) **2004e:80005**
Rodríguez, Carmen *see* **Bermúdez de Castro, Alfredo et al.**
Rodríguez, Rodolfo *see* **Cascón, J. M. et al., 2004j:86001**
Rodríguez Bellido, María Angeles *see* **Bresch, Didier et al., 2004a:35169; 2004c:76038; 2004j:76032** *and* **2004m:76168**
Rodríguez Gómez, David *see* **Chacón Rebollo, Tomás, 2004d:86001**
Rollins, David K. *see* **Shivamoggi, Bhimsen K., 2004k:76028**
Romanova, N. N. *see* **Annenkov, S. Yu.**
Rosenberg, Duane *see* **Pouquet, Annick et al., (2004d:76004)**
Russell, Thomas F. *see* **Jarman, Kenneth D., 2004k:35245**
Rusu, Dan D. (*with* Langford, William F.) Bistability of vortex modes in annular thermoconvection. (English summary) **2004h:76084**
(Sajjadi, Shahrdad G.) *see* **Wind over waves II: forecasting and fundamentals of applications, 2004k:86001**
Saleri, Fausto *see* **Miglio, Edie et al., 2004m:76057**
Samelson, R. M. (*with* Wolfe, C. L.) A nonlinear baroclinic wave-mean oscillation with multiple normal mode instabilities. (English summary) **2004b:86025**
— (*with* Temam, Roger; Wang, Cheng[4]; Wang, Shou Hong) Surface pressure Poisson equation formulation of the primitive equations: numerical schemes. (English summary) **2004g:65111**
Sammartino, Marco (*with* Sciacca, Vincenzo) Long time behavior of a shallow water model for a basin with varying bottom topography. (English summary) **2004a:37122**
Sansom, Ahmos (*with* King, John Robert; Riley, David S.) Degenerate-diffusion models for the spreading of thin non-isothermal gravity currents. (English summary) **2004j:76010**
Schär, Christoph *see* **Bannon, Peter R. et al., 2004i:76048**
Scheichl, R. (*with* Masson, Roland; Wendebourg, J.) Decoupling and block preconditioning for sedimentary basin simulations. (English summary) **2004j:76154**
Schmidli, Jürg *see* **Bannon, Peter R. et al., 2004i:76048**
Schneid, E. *see* **Knabner, Peter et al., (2004d:00011)**
Schonbek, Maria E. (*with* Schonbek, Tomas P.) Asymptotic behavior to dissipative quasi-geostrophic flows. (English summary) **2004e:76112**
Schonbek, Tomas P. *see* **Schonbek, Maria E., 2004e:76112**
Schröter, Jens *see* **Marchuk, Guriĭ Ivanovich et al., 2004m:86001**
Sciacca, Vincenzo *see* **Sammartino, Marco, 2004a:37122**
Shepherd, Theodore G. *see* **Wirosoetisno, D. et al., 2004i:76035**
Shivamoggi, Bhimsen K. (*with* Rollins, David K.) On the inadequacies of Long's model for steady two-dimensional stratified flows. (English summary) **2004k:76028**
Simon, Jacques *see* **Bresch, Didier, 2004b:35266**
Simonnet, Eric *see* **Chen, Zhi-Min et al., 2004j:76071**
Sinai, Yakov G. *see* **Dinaburg, Efim I. et al., 2004m:76054**
Skvortsov, È. V. (*with* Suyucheva, D. T.) Modeling the control of the flow of contaminated underground waters. (Russian) (*see* **2004e:00008**)
Smedman, A.-S. (*with* Larsen, X. G.; Högström, U.) Is the logarithmic wind law valid over the sea? (English summary) (*see* **2004k:86001**)
Smith, Leslie M. *see* **Lee, Youngsuk, 2004d:76050**
Smyth, William D. Secondary Kelvin-Helmholtz instability in weakly stratified shear flow. (English summary) **2004k:76051**
Snyder, Christopher Martin (*with* Hamill, Thomas M.) Leading Lyapunov vectors of a turbulent baroclinic jet in a quasigeostrophic model. (English summary) **2004c:86024**
Solna, Knut *see* **Nachbin, André, 2004b:76025**
Staquet, Chantal An introduction to mixing in a stably stratified fluid. (English summary) **2004g:76082**
Stetsenko, Olexandr Grygorovych *see* **Lukyanov, P. V. et al., 2004d:76023**
Straub, David N. Instability of 2D flows to hydrostatic 3D perturbations. (English summary) **2004c:76066**
Su, Ninghu (*with* Liu, Fa Wang; Anh, V. V.) Simulating seawater intrusion in aquifers using the modified Fokker-Planck equation and Boussinesq equation subject to phase-modulated tidal waves. (English summary)
— *see also* **Liu, Fa Wang et al., 2004a:65121**
Suyucheva, D. T. *see* **Skvortsov, È. V., (2004e:00008)**
Swaters, Gordon E. Spectral properties in modon stability theory. (English summary) **2004k:76052**
Sy, Mamadou *see* **Bresch, Didier, 2004c:76139**
Synolakis, Costas E. *see* **Liu, Philip L.-F. et al., 2004h:76024**
Tabak, Esteban G. (*with* Tal, Fábio A.) Mixing in simple models for turbulent diffusion. (English summary) **2004m:76090**
Tal, Fábio A. *see* **Tabak, Esteban G., 2004m:76090**
Temam, Roger (*with* Tribbia, Joseph) Open boundary conditions for the primitive and Boussinesq equations. (English summary) **2004g:76038**
— *see also* **Samelson, R. M. et al., 2004g:65111; Wirosoetisno, D. et al., 2004i:76035** *and* **Petcu, M. et al., 2004m:76171**
Thomson, Jim *see* **Pedlosky, Joseph, 2004i:76110**
Thorpe, S. A. A note on standing internal inertial gravity waves of finite amplitude. (English summary) **2004b:76039**
Titz, Sven *see* **Gonçalves Lind, Pedro et al.**
Tkacheva, L. A. A plane problem of the oscillations of a floating elastic plate under the action of a periodic external load. (Russian. Russian summary) **2004m:74050**
Torrisi, M. *see* **Maugeri, M. et al.**
Tran, Chuong V. (*with* Bowman, John C.) Energy budgets in Charney-Hasegawa-Mima and surface quasigeostrophic turbulence. (English summary) **2004k:76073**
Tréguier, Anne Marie Modélisation numérique pour l'océanographie physique. (French summary) [Numerical modelling for physical oceanography] (*see* **2004c:86014**)
Tribbia, Joseph *see* **Temam, Roger, 2004g:76038**
Tuaeva, Zh. D. *see* **Muzaev, Illarion Davidovich**
Tuncay, K. (*with* Ortoleva, P.) Probability functionals, homogenization and comprehensive reservoir simulators. (English summary) **2004a:76129**
Turner, Ian W. *see* **Liu, Fa Wang et al., 2004a:65121**
Vanneste, Jacques Nonlinear dynamics over rough topography: homogeneous and stratified quasi-geostrophic theory. **2004h:76051**
Vázquez-Cendón, María Elena *see* **Castro-Díaz, Manuel Jesús et al., 2004m:76109**
Vázquez-Méndez, M. E. *see* **Bermúdez de Castro, Alfredo et al.**
Vilotte, Jean-Pierre *see* **Bouchut, François et al., 2004c:76017**
Viúdez, Álvaro *see* **Dritschel, David G., 2004j:76161**
Voisin, B. Limit states of internal wave beams. (English summary) **2004m:76068**
Voronovich, A. G. Strong solitary internal waves in a 2.5-layer model. **2004h:76045**
Wang, Bin[1] *see* **Lin, Wan Tao et al., 2004i:86015**
Wang, Cheng[4] *see* **Samelson, R. M. et al., 2004g:65111**
Wang, Shou Hong *see* **Ma, Tian, 2004c:37037; Samelson, R. M. et al., 2004g:65111** *and* **Chen, Zhi-Min et al., 2004j:76071**
Wendebourg, J. *see* **Scheichl, R. et al., 2004j:76154**
Whitaker, Stephen *see* **Hager, Jörgen, 2004c:80001**
Williams, I. P. The Roche limit. (English summary) **2004k:70010**
Williams, P. S. (*with* Ehrenmark, Ulf T.; Body, Giles L.) Bounded capillary-gravity waves obliquely incident on a plane beach. (English summary) **2004m:76034**
Wirosoetisno, D. (*with* Shepherd, Theodore G.; Temam, Roger) Free gravity waves and balanced dynamics. (English summary) **2004i:76035**
— *see also* **Petcu, M. et al., 2004m:76171**
Wolfe, C. L. *see* **Samelson, R. M., 2004b:86025**
Woods, Andrew W. *see* **King, Stuart E., 2004i:76081**
Wu, Jiahong The 2D dissipative quasi-geostrophic equation. (English summary) **2004a:35177**
Wyatt, Lucy R. The interpretation and validation of measurements of the ocean wave directional spectrum. (English summary) (*see* **2004m:62011**)
Xiang, Jie *see* **Zhang, Gui[2], 2004a:76054**
Zalesnyĭ, V. B. *see* **Marchuk, Guriĭ Ivanovich et al., 2004m:86001**
Zavala Sansón, L. (*with* van Heijst, G. J. F.) Ekman effects in a rotating flow over bottom topography. (English summary) **2004a:76132**
Zeitlin, Vladimir (*with* Medvedev, S. B.; Plougonven, R.) Frontal geostrophic adjustment, slow manifold and nonlinear wave phenomena in one-dimensional rotating shallow water. I. Theory. (English summary) **2004i:76190**
— (*with* Reznik, G. M.; Ben Jelloul, M.) Nonlinear theory of geostrophic adjustment. II. Two-layer and continuously stratified primitive equations. (English summary) **2004j:76163**
Zhang, Gui[2] (*with* Xiang, Jie) Nonlinear saturation of baroclinic instability in the generalized Phillips model. II. The lower bound on the disturbance energy and potential enstrophy to the nonlinearly unstable basic flow. (Chinese. English and Chinese summaries) **2004a:76054**
Zhang, Zhi Yue The alternating-direction schemes and numerical analysis for the three-dimensional seawater intrusion simulation. (English summary) **2004h:76118**
Zhao, Chun Shan Initial boundary value problem for the evolution system of MHD type describing geophysical flow in three-dimensional domains. (English summary) **2004c:76037**
Zolésio, Jean-Paul *see* **Delfour, Michel C., 2004m:76016**

Items listed otherwise than by author

Cambridge ★ Wind over waves II: forecasting and fundamentals of applications. **2004k:86001**
Wind over waves II: forecasting and fundamentals of applications ★ Wind over waves II: forecasting and fundamentals of applications. **2004k:86001**

86A10 Meteorology and atmospheric physics [see also 76Bxx, 76E20, 76N15, 76Q05, 76Rxx, 76U05]

Abo-Seida, Osama M. Propagation of electromagnetic field in an abnormal stratification of the upper ionosphere. (English summary)
Abo Seliem, Adel A. S. *see* **Bishay, Samira T., 2004m:86004**
Aburjania, G. (*with* Chargazia, Kh.) The propagation of the planetary-scale wave disturbances in the ionosphere. (English and Georgian summaries) **2004f:86005**
Achatz, Ulrich (*with* Opsteegh, J. D.) Primitive-equation-based low-order models with seasonal cycle. I. Model construction. (English summary) **2004e:86012**
— (*with* Opsteegh, J. D.) Primitive-equation-based low-order models with seasonal cycle. II. Application to complexity and nonlinearity of large-scale atmosphere dynamics. (English summary) **2004e:86013**
Adou, J. (*with* Simonin, Olivier) Modelling of the particles transport in the atmospheric boundary layer. (English summary) **2004a:86013**
Aiyyer, Anantha R. (*with* Molinari, John) Evolution of mixed Rossby-gravity waves in idealized MJO environments. (English summary)

Alexander, M. Joan *see* **Vadas, Sharon L. et al., 2004c:86025**
Alexandrov, Vassil (*with* Owczarz, W.; Thomsen, Per Grove; Zlatev, Zahari) Parallel runs of a large air pollution model on a grid of Sun computers. (English summary)
Amendola, Giovambattista Asymptotic behaviour for electromagnetic fields in the ionosphere. (English and Italian summaries) **2004f:86006**
Andrianov, S. A. (*with* Vasil′chenko, I. I.; Golitsyn, G. S.; Zabavin, V. N.; Shcherbin, M. D.) Numerical modeling of "fire-storm" formation processes. (Russian) **2004a:86014**
Appleby, P. G. *see* **Piliposyan, Gayane T.**
Baigent, Stephen (*with* Norbury, John) Statistical methods in atmospheric dynamics: probability metrics and discrepancy measures as a means of defining balance. **2004c:86015**
Baldi, M. *see* **Dalu, G. A. et al., 2004f:86007**
Berkvens, P. J. F. (*with* Botchev, M. A.; Krol, Maarten; Peters, W.; Verwer, J. G.) Solving vertical transport and chemistry in air pollution models. (English summary) **2004b:86016**
Betancor Ortiz, Juan D. *see* **Winter Althaus, Gabriel et al.**
Biello, Joseph A. *see* **Majda, Andrew J., 2004f:86009** *and* **2004m:86010**
Bishay, Samira T. (*with* Abo Seliem, Adel A. S.) Transient response of a vertical electric dipole above a two-layer medium. (English summary) **2004m:86004**
Botchev, M. A. *see* **Berkvens, P. J. F. et al., 2004b:86016**
Botta, N. (*with* Klein, Rupert; Langenberg, S.; Lützenkirchen, S.) Well balanced finite volume methods for nearly hydrostatic flows. (English summary) **2004m:86005**
Boutahar, J. *see* **Sportisse, Bruno et al., 2004e:86017**
Bregman, Bram *see* **Segers, Arjo et al., (2004j:00013)**
Bretherton, Christopher S. (*with* Sobel, Adam H.) The Gill model and the weak temperature gradient approximation. (English summary) **2004c:86016**
Brown, A. R. (*with* Wood, N.) Properties and parameterization of the stable boundary layer over moderate topography. (English summary) **2004i:86014**
Bühler, Oliver Equatorward propagation of inertia-gravity waves due to steady and intermittent wave sources. (English summary) **2004c:86017**
Cárdenas, José W. (*with* Thompson, Mark) Error estimates and existence of solutions for an atmospheric model of Lorenz on periodic domains. (English summary) **2004e:86014**
Chai, Tianfeng (*with* Lin, Ching-Long) Estimation of turbulent viscosity and diffusivity in adjoint recovery of atmospheric boundary layer flow structures. (English summary) **2004d:86007**
Chargazia, Kh. *see* **Aburjania, G., 2004f:86005**
Chen, Zhe *see* **Fu, Zun Tao et al.**
Chkhetiani, O. G. *see* **Ponomarev, V. M. et al., 2004d:86011**
Codoban, Sorin (*with* Shepherd, Theodore G.) Energetics of a symmetric circulation including momentum constraints. (English summary) **2004g:86008**
Cullen, Michael J. P. New mathematical developments in atmosphere and ocean dynamics, and their application to computer simulations. **2004c:86018**
— (*with* Maroofi, Hamed) The fully compressible semi-geostrophic system from meteorology. (English summary) **2004c:86019**
Dahlke, Stephan (*with* Teschke, Gerd; Lehmann, Volker) Applications of wavelet methods to the analysis of meteorological radar data—an overview. (English and Arabic summaries) **2004m:86006**
Dalu, G. A. (*with* Baldi, M.; Pielke, R. A.; Leoncini, G.) Mesoscale nonhydrostatic and hydrostatic pressure gradient forces—theory. (English summary) **2004f:86007**
Dang Quang A (*with* Nguyen Dong Anh) On numerical modelling for dispersion of active pollutants from a elevated point source. (English summary)
Debry, E. *see* **Sportisse, Bruno et al., 2004e:86017**
Deng, Aijun (*with* Seaman, Nelson L.; Kain, John S.) A shallow-convection parameterization for mesoscale models. I. Submodel description and preliminary applications. (English summary)
— (*with* Seaman, Nelson L.; Kain, John S.) A shallow-convection parameterization for mesoscale models. II. Verification and sensitivity studies. (English summary)
Drijfhout, S. S. Why anticyclones can split. (English summary) **2004e:86015**
Duffy, Dean G. Hydrostatic adjustment in nonisothermal atmospheres. (English summary) **2004c:86020**
Eames, I. *see* **Greenslade, M. et al., 2004f:86008**
Eggeling, Eva (*with* Ta'asan, Shlomo) An optimization algorithm for the meteorological data assimilation problem. (English summary) **2004m:86007**
Eltayeb, I. A. (*with* Hassan, M. H. A.) The evolution of dust emitted by a uniform source above ground level. (English summary) **2004m:86008**
Fernando, H. J. S. *see* **Tse, K. L. et al., 2004j:86012**
Fraedrich, Klaus Simple climate models. (English summary) **2004e:86016**
Frisius, Thomas The development of a cyclone-anticyclone asymmetry within a growing baroclinic wave. (English summary) **2004j:86009**
Fritts, David C. *see* **Vadas, Sharon L. et al., 2004c:86025**
Fu, Zun Tao (*with* Liu, Shi Da; Liu, Shi Kuo; Chen, Zhe) Structures of equatorial envelope Rossby wave under the influence of new type of diabatic heating. (English summary)
Galin, M. B. Spectral properties of time-dependent empirical orthogonal functions. (Russian) **2004d:86008**
Ghil, Michael *see* **Lott, François et al.** *and* **Kondrashov, D. et al.**
Glazunov, A. V. (*with* Lykosov, V. N.) Large-eddy simulation of interaction of ocean and atmospheric boundary layers. (English summary) **2004g:86009**
Golitsyn, G. S. *see* **Andrianov, S. A. et al., 2004a:86014**
Gordin, Vladimir ★ Mathematical problems and methods in hydrodynamic weather forecasting. **2004h:86006**
Greenslade, M. (*with* Hunt, Julian C. R.; Mobbs, S.; Eames, I.) The distortion of weak fronts by mesoscale orography. (English summary) **2004f:86008**
Griffiths, Stephen D. Nonlinear vertical scale selection in equatorial inertial instability. (English summary) **2004b:86017**
Grigor′ev, G. I. (*with* Savina, O. N.) Internal gravity waves in an isothermal atmosphere with wind varying in time. (Russian. Russian summary) **2004j:86010**
Günther, Gebhard *see* **Müller, Rolf[4], 2004g:86013**
Hamill, Thomas M. *see* **Snyder, Christopher Martin, 2004c:86024**
Hassan, M. H. A. *see* **Eltayeb, I. A., 2004m:86008**
Högström, U. *see* **Smedman, A.-S. et al., (2004k:86001)**
Hoskins, B. J. *see* **Pelly, J. L.**
Hu, Yin Qiao Ordered structure and system development of a forced dissipation system. II. Minimal value principle of generalized energy and system development. (Chinese. English and Chinese summaries)
— Ordered structure and system development of a forced dissipation system. I. Principle of minimum entropy production and ordered structure. (Chinese. English and Chinese summaries)
Hunt, Julian C. R. *see* **Greenslade, M. et al., 2004f:86008**
Ide, Kayo *see* **Kondrashov, D. et al.**
Imkeller, Peter (*with* Monahan, Adam Hugh; Pandolfo, Lionel) Some mathematical remarks concerning the localisation of planetary waves in a stochastic background flow. (English summary) **2004c:86021**
Ingel′, L. Kh. *see* **Yaroshevich, M. I.**
Ji, Zhong Zhen *see* **Lin, Wan Tao et al., 2004i:86015**
Johnson, Richard H. *see* **Knievel, Jason C., 2004b:86019** *and* **Parker, Matthew D.**
Joseph, Daniel D. *see* **Sreenivasan, K. R., 2004b:86026**
Kain, John S. *see* **Deng, Aijun et al.**
Kasahara, Akira The roles of the horizontal component of the earth's angular velocity in nonhydrostatic linear models. (English summary) **2004b:86018**
Katsoulakis, Markos A. *see* **Khouider, Boualem et al., 2004g:86010**
Khapaev, A. A. *see* **Ponomarev, V. M. et al., 2004d:86011**
Khouider, Boualem (*with* Majda, Andrew J.; Katsoulakis, Markos A.) Coarse-grained stochastic models for tropical convection and climate. (English summary) **2004g:86010**
Klein, Rupert *see* **Botta, N. et al., 2004m:86005**
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Knievel, Jason C. (*with* Johnson, Richard H.) A scale-discriminating vorticity budget for a mesoscale vortex in a midlatitude, continental mesoscale convective system. (English summary) **2004b:86019**
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Lin, Wan Tao (*with* Ji, Zhong Zhen; Wang, Bin[1]) The relationship between short-range motion of atmosphere and ocean and conservative and nonconservative scheme. (English summary) **2004i:86015**
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Lützenkirchen, S. *see* **Botta, N. et al., 2004m:86005**
Lykosov, V. N. *see* **Glazunov, A. V., 2004g:86009**
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Mobbs, S. *see* **Greenslade, M. et al., 2004f:86008**
Molinari, John *see* **Aiyyer, Anantha R.**
Monahan, Adam Hugh *see* **Imkeller, Peter et al., 2004c:86021**
Montero García, Gustavo *see* **Winter Althaus, Gabriel et al.**
Montgomery, Michael T. *see* **Nolan, David S., 2004a:86016**
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Müller, Rolf[4] (*with* Günther, Gebhard) A generalized form of Lait's modified potential vorticity. (English summary) **2004g:86013**
Murawski, K. *see* **Nocera, L.**
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Nolan, David S. (*with* Montgomery, Michael T.) Nonhydrostatic, three-dimensional perturbations to balanced, hurricane-like vortices. I. Linearized formulation, stability, and evolution. (English summary) **2004a:86016**
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Olaguer, Eduardo P. An efficient 3-D model for global circulation, transport and chemistry. (English summary) **2004b:86022**
Olbers, Dirk A gallery of simple models from climate physics. (English summary) **2004b:86023**
Opsteegh, J. D. *see* **Achatz, Ulrich, 2004e:86012** *and* **2004e:86013**
Orlando, Wendell Welch *see* **Tung, Ka Kit, 2004k:86007**
Orlanski, Isidoro Bifurcation in eddy life cycles: implications for storm track variability. (English summary) **2004b:86024**
Owczarz, W. *see* **Alexandrov, Vassil et al.**
Pandolfo, Lionel *see* **Imkeller, Peter et al., 2004c:86021**
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Quélo, D. *see* **Sportisse, Bruno et al., 2004e:86017**
Rasmussen, Erik N. *see* **Markowski, Paul M. et al.**
Robertson, Andrew W. *see* **Lott, François et al.**
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Schubert, Wayne H. *see* **Kossin, James P., 2004b:86020**
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Snyder, Christopher Martin (*with* Hamill, Thomas M.) Leading Lyapunov vectors of a turbulent baroclinic jet in a quasigeostrophic model. (English summary) **2004c:86024**
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Thomsen, Per Grove *see* **Alexandrov, Vassil et al.**
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Viúdez, Álvaro A new interpretation of the beta term in the vorticity equation. (English summary) **2004e:86018**
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Dimov, I. T. *see* **Papancheva, R. Y. et al., 2004i:65005**
Djouad, Rafik *see* **Sportisse, Bruno, 2004a:80016**
Dobrokhotov, S. Yu. (*with* Tirozzi, Brunello) On the Hamiltonian property of truncated Hugoniot-Maslov chains for trajectories of mesoscale vortices. (Russian) **2004b:76031**
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Emamizadeh, Behrouz *see* **Nycander, Jonas, 2004f:76025**
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Fefferman, Charles *see* **Córdoba, Diego et al., 2004m:76046**
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Gandlin, Rima *see* **Brandt, Achi, (2004j:00016)**
Gentz, Barbara *see* **Berglund, Nils, 2004c:86003**
Gérard-Varet, David (*with* Grenier, Emmanuel) A zoology of boundary layers. (English and Spanish summaries) **2004m:76169**
Ghil, Michael *see* **Chen, Zhi-Min et al., 2004j:76071**
Ghorai, Saktipada (*with* Tomlin, Alison S.; Berzins, Martin) Resolution of pollutant concentrations using a fully 3D adaptive method. (English summary) **2004b:86002**
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Gledzer, A. E. Slow motions in the reduced equations of a stratified fluid in the field of Coriolis forces. (Russian. Russian summary) **2004i:76184**
Gottwald, Georg A. *see* **Frank, Jason et al., (2004d:65005)**
Graves, Lee P. *see* **McWilliams, James C. et al., 2004e:76033**
Grenier, Emmanuel *see* **Gérard-Varet, David, 2004m:76169**
Griffiths, Stephen D. The nonlinear evolution of zonally symmetric equatorial inertial instability. **2004i:76108**
Grimshaw, Roger H. J. *see* **Reznik, G. M., 2004c:76024**
Guo, Daniel (*with* Drake, John) A global semi-Lagrangian spectral model for the reformulated shallow water equations. (English summary)
Gurarie, David Long-range dynamics of a shallow water triad: renormalization, modulation, and cyclogenesis. (English summary) **2004f:86002**
Gurov, T. V. *see* **Papancheva, R. Y. et al., 2004i:65005**
Haeusser, T. M. (*with* Leibovich, Sidney) Pattern formation in the marginally unstable Ekman layer. (English summary) **2004i:76185**
Hamed, Khaled H. *see* **Rao, Adiseshappa Ramachandra et al.**
Hanazaki, Hideshi Linear processes in stratified turbulence with rotation or mean shear. (English summary) **2004j:76088**
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Henshaw, William D. (*with* Kreiss, Heinz-Otto; Ystrom, Jacob) Numerical experiments on the interaction between the large- and small-scale motions of the Navier-Stokes equations. (English summary) **2004a:76037**
Hernández, Jesús *see* **Díaz Díaz, Jesús Ildefonso et al., 2004f:35056**
Hetzer, Georg The shift-semiflow of a multi-valued evolution equation from climate modeling. (English summary) **2004b:37170**
Hoang Dinh Dung Exact solution for problem of air pollution. (English summary)
Hollerbach, Rainer Instabilities of the Stewartson layer I. The dependence on the sign of *Ro*. (English summary) **2004i:76103**
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Jiang, Qingfang (*with* Smith, Ronald B.) Gravity wave breaking in two-layer hydrostatic flow. (English summary) **2004b:86013**
Judd, Kevin (*with* Smith, Leonard A.; Weisheimer, Antje) Gradient free descent: shadowing, and state estimation using limited derivative information. (English summary) **2004m:37164**
Kadychnikov, Vladimir *see* **Bourchtein, Andrei, 2004i:65102**
Kifer, Yuri Averaging and climate models. (English summary) **2004b:37183**
Kloeden, Peter E. *see* **Duan, Jinqiao et al., 2004b:76066**
Kreiss, Heinz-Otto *see* **Henshaw, William D. et al., 2004a:76037**
Kwasniok, Frank (*with* Schmitz, Gerhard) Radiating instabilities of internal inertio-gravity waves. (English summary) **2004c:76065**
Lautrup, B. *see* **Andersen, A. et al., 2004i:76182a; 2004i:76182b** *and* **Errata: "An averaging method for nonlinear laminar Ekman layers", 2004i:76182b**
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Legras, Bernard (*with* Villone, Barbara) Dispersive and friction-induced stabilization of the Cahn-Hilliard inverse cascade. (English summary) **2004d:76051**
Leibovich, Sidney *see* **Haeusser, T. M., 2004i:76185**
Lewis, Gregory M. (*with* Nagata, Wayne) Linear stability analysis for the differentially heated rotating annulus. (English summary) **2004m:76076**
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Liu, Yong-ming (*with* Li, Na) Nonlinear stability theorem of zonally symmetric quasi-geostrophic flow. (English and Chinese summaries) **2004e:76063**
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Maslowe, S. A. *see* **Campbell, L. J., 2004i:76046**
McIntyre, Michael E. *see* **Bühler, Oliver, 2004h:76046**
McWilliams, James C. (*with* Graves, Lee P.; Montgomery, Michael T.) A formal theory for vortex Rossby waves and vortex evolution. (English summary) **2004e:76033**
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Montgomery, Michael T. *see* **McWilliams, James C. et al., 2004e:76033**
Nagata, Wayne *see* **Lewis, Gregory M., 2004m:76076**
Nair, Ramachandran D. (*with* Scroggs, Jeffrey S.; Semazzi, Frederick H. M.) A forward-trajectory global semi-Lagrangian transport scheme. (English summary) **2004k:86003**
Nicolaenko, Basil *see* **Babin, Anatolii V. et al., 2004i:76045**
Nilsson, Martin Singular spectrum time-series analysis and continuous transformation groups. (English summary) **2004m:37160**
Novikov, Evgeny A. Dynamics of distributed sources. (English summary) **2004m:76050**
Nycander, Jonas (*with* Emamizadeh, Behrouz) Variational problem for vortices attached to seamounts. (English summary) **2004f:76025**
Olanrewaju, P. O. *see* **Ayeni, R. O.**
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86A22 Inverse problems [see also 35R30]

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86A25 Geo-electricity and geomagnetism [see also 76W05, 78A25]

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86A30 Geodesy, mapping problems

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86A32 Geostatistics

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Deutsch, Clayton V. *see* **Pyrcz, Michael J.**, **2004g:86018**
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86A40 Glaciology

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86A60 Geological problems

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86A99 Miscellaneous topics

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(Dambrine, Michel) *see* **Time delay systems: theory and control**

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(Günther, Hans-Otto) *see* **Container terminal logistics. Part I**

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(Konno, Hiroshi) *see* **New trends in optimization and computational algorithms**

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(Kumar, Vipin) *see* **Parallel computing in numerical optimization**

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Lemaire, Bernard *see* **Charon, Irène et al.**

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Mitra, Gautam *see* **Applied mathematical programming and modelling** *and* **Messina, Enza et al.**

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Munier Kordon, Alix *see* **Baptiste, Philippe et al.**

(Murli, Almerico) *see* **High performance algorithms and software for nonlinear optimization, 2004j:90009**

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(Petrovic, Sanja) *see* **Timetabling and rostering**
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(Potts, Chris N.) *see* **Symposium: Combinatorial Optimisation**
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(Rocca, Matteo) *see* **Recent advances in optimization, 2004g:90008**
(Romeijn, Edwin) *see* **Supply chain optimization**
(Roos, Cornelis) *see* **Conference: Optimization Methods and Software, First International, Part I** *and* **Conference: Optimization Methods and Software, 1st International, Part II**
(Rosing, Kenneth E.) *see* **Facility location modelling: papers in honor of Kenneth E. Rosing** *and* **Facility location modelling: papers in honor of Kenneth E. Rosing**
(Rubinov, Aleksandr M.) *see* **Theory, methods and applications of optimization**
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(Shepherd, F. Bruce) *see* **ISMP 2000**
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(Siskos, Y.) *see* **New technologies in transportation systems**
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(Strusevich, V. A.) *see* **Symposium: Combinatorial Optimisation**
(Sun, Wen Yu) *see* **Theory, methods and applications of optimization**
(Tan, Barış) *see* **Stochastic models of production-inventory systems. Part I** *and* **Stochastic models of production-inventory systems. Part II**
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Ţevy, Ionel *see* **Udrişte, Constantin et al., 2004d:90001**
(Thanassoulis, E.) *see* **DEA in different countries**
(Thomas, Rekha R.) *see* **Algebraic and geometric methods in discrete optimization**
Tolla, Pierre *see* **Charon, Irène et al.**
(Toraldo, Gerardo) *see* **Parallel computing in numerical optimization**
(Tseveendorj, Ider) *see* **Optimization and optimal control, 2004h:90005**
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(Woodruff, David L.) *see* **Network interdiction and stochastic integer programming, 2004h:90004**
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(Yao, Xin) *see* **Evolutionary optimization, 2004f:90008**
(Ye, Nong) *see* **Computational modeling and problem solving in the networked world, 2004b:90006**
(Yuan, Ya Xiang) *see* **Meeting: Optimization**
(Zadnik Stirn, L.) *see* **Proceedings: SOR '03, 2004m:90005**
(Zanakis, S. H.) *see* **DEA in different countries**
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Algebraic and geometric methods in discrete optimization ★ Algebraic and geometric methods in discrete optimization.
Applied mathematical programming and modelling ★ Applied mathematical programming and modelling.
Approximation algorithms ★ Approximation algorithms. Part 1.
— ★ Approximation algorithms. Part 2.
Athens ★ DEA in different countries.
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Constraint and integer programming ★ Constraint and integer programming. **2004k:90007**
Container terminal logistics. Part I ★ Container terminal logistics. Part I.
Davis, CA ★ Network interdiction and stochastic integer programming. **2004h:90004**
DEA in different countries ★ DEA in different countries.
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Discrete optimization ★ Discrete optimization.
Dynamic stochastic optimization ★ Dynamic stochastic optimization. **2004j:90007**
Equilibrium problems and variational models ★ Equilibrium problems and variational models. **2004j:90008**
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Erice ★ Equilibrium problems and variational models. **2004j:90008**
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Generalized convexity, generalized monotonicity, optimality conditions and duality in scaler and vector optimization ★ Generalized convexity, generalized monotonicity, optimality conditions and duality in scaler and vector optimization.
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Granada ★ Preference modelling and applications.
Hangzhou ★ The First International Conference on Optimization Methods and Software. Part I.
— ★ The First International Conference on Optimization Methods and Software. Part II.
High performance algorithms and software for nonlinear optimization ★ High performance algorithms and software for nonlinear optimization. **2004j:90009**
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Memorial Issue:
Martins, Ernesto de Queirós Vieira ★ Special issue in memory of Ernesto Q. V. Martins.
Meta-heuristics in combinatorial optimization ★ Meta-heuristics in combinatorial optimization.
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Modeling languages in mathematical optimization ★ Modeling languages in mathematical optimization. **2004m:90004**

Multilevel optimization in VLSICAD ★ Multilevel optimization in VLSICAD. **2004f:90010**
Multiple criteria optimization: state of the art annotated bibliographic surveys ★ Multiple criteria optimization: state of the art annotated bibliographic surveys. **2004g:90007**
Naples ★ Parallel computing in numerical optimization.
Network interdiction and stochastic integer programming ★ Network interdiction and stochastic integer programming. **2004h:90004**
New technologies in transportation systems ★ New technologies in transportation systems.
New trends in optimization and computational algorithms ★ New trends in optimization and computational algorithms (NTOC 2001).
Optimization and industry: new frontiers ★ Optimization and industry: new frontiers. **2004b:90008**
Optimization and optimal control ★ Optimization and optimal control. **2004h:90005**
OR models for energy policy, planning and management ★ OR models for energy policy, planning and management. Part I.
— ★ OR models for energy policy, planning and management. Part II.
Osaka ★ {Third Czech-Japanese Seminar on Data Analysis and Decision Making under Uncertainty}.
Osnabrück ★ Sequencing and scheduling.
Parallel computing in numerical optimization ★ Parallel computing in numerical optimization.
Paris ★ EURO young scientists—papers from the EURO Peripatetic Post-Graduate Programme.
Piscataway, NJ ★ Discrete optimization.
Pittsburgh, PA ★ Integer programming.
Podčetrtek ★ SOR '03 Proceedings. **2004m:90005**
Preference modelling and applications ★ Preference modelling and applications.
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Recent advances in optimization ★ Recent advances in optimization. **2004g:90008**
Recent developments in cooperative control and optimization ★ Recent developments in cooperative control and optimization. **2004k:90008**
Saarbrücken ★ Special issue on efficient scheduling algorithms.
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Semmering ★ Special issue: Multicriteria methods in group decision making.
Sequencing and scheduling ★ Sequencing and scheduling.
Special Issue:
Efficient scheduling algorithms ★ Special issue on efficient scheduling algorithms.
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Multicriteria methods in group decision making ★ Special issue: Multicriteria methods in group decision making.
Stochastic models of production-inventory systems. Part I ★ Stochastic models of production-inventory systems. Part I.
Stochastic models of production-inventory systems. Part II ★ Stochastic models of production-inventory systems. Part II.
Supply chain optimization ★ Supply chain optimization.
Symposium:
Algorithms ★ Special issue on efficient scheduling algorithms.
Combinatorial Optimisation ★ International Symposium on Combinatorial Optimisation.
Mathematical Programming Society ★ ISMP 2000. Part 3.
Theory, methods and applications of optimization ★ Theory, methods and applications of optimization.
Time delay systems: theory and control ★ Time delay systems: theory and control.
Timetabling and rostering ★ Timetabling and rostering.
Traffic and transportation systems analysis ★ Traffic and transportation systems analysis.
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Varese ★ Recent advances in optimization. **2004g:90008**
Workshop:
Algorithms, Combinatorics, and Optimization in Interconnection Networks, 1st International, IWACOIN '99 ★ 1st International Workshop on Algorithms, Combinatorics, and Optimization in Interconnection Networks (IWACOIN '99).
Approximation Algorithms ★ Special issue on efficient scheduling algorithms.
Optimization ★ Recent advances in optimization. **2004g:90008**
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Conference:
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Copenhagen ★ ISMP 2003.
Dagstuhl Castle ★ Selected papers from the Dagstuhl Workshop on Scheduling in Computer and Manufacturing Systems.
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On-line scheduling ★ Special issue: On-line scheduling.
Parallel and distributed computing ★ Special issue on parallel and distributed computing.

Stochastic models in engineering, technology, and management ★ Stochastic models in engineering, technology, and management.
Symposium:
Mathematical Programming ★ ISMP 2003.
Parallel and Distributed Processing ★ Special issue on parallel and distributed computing.
System modeling and optimization ★ System modeling and optimization XX. **2004g:93010**
Trier ★ System modeling and optimization XX. **2004g:93010**
Waterloo, ON ★ Novel approaches to hard discrete optimization. **2004a:00021**
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90Bxx Operations research and management science

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90B05 Inventory, storage, reservoirs

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90B06 Transportation, logistics

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90B10 Network models, deterministic

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Manna, Subhrangshu Sekhar (*with* Kabakçıoğlu, A.) Scale-free network on Euclidean space optimized by rewiring of links. (English summary) **2004g:90012**
Marins, F. A. S. *see* **Perin, C. et al.**
Matsypura, D. *see* **Nagurney, Anna et al.**, **2004g:90014**
Mello, Margarida *see* **Perin, C. et al.**

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Mirchandani, Prakash *see* **Balakrishnan, Anantaram et al., 2004i:90012**
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Passacantando, Mauro *see* **Pappalardo, Massimo, 2004m:90015**
Patterson, Raymond A. *see* **Jayaraman, Vaidyanathan et al.**
Pawlak, Zdzisław Decisions rules and flow networks. (English summary) **2004i:90014**
Payne, T. Alan *see* **Brooks, Richard R. et al.**
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del Pozo, Lourdes *see* **Calvete Fernández, Herminia Inmaculada, 2004c:90005**
Prieto, Francisco J. *see* **Nogales, Francisco J. et al.**
Puerto Albandoz, Justo *see* **Kalcsics, Jörg et al., 2004f:90016** *and* **Mesa, Juan A. et al., 2004f:90017**
Qi, Liqun *see* **Fang, Shu-Cherng, 2004f:90013**
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Radzik, Tomasz Improving time bounds on maximum generalised flow computations by contracting the network. (English summary)
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Ranjithan, S. Ranji *see* **Zechman, Emily M.**
Ravi, Ramamoorthi *see* **Garg, Naveen et al., 2004m:90012** *and* **Hassin, Refael et al., 2004m:90013**
Raz, Danny *see* **Chekuri, Chandra et al.**
Rolland, Erik *see* **Jayaraman, Vaidyanathan et al.**
Salman, F. Sibel *see* **Garg, Naveen et al., 2004m:90012** *and* **Hassin, Refael et al., 2004m:90013**
Schreckenberg, M. *see* **Chrobok, R. et al.**
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Scrimali, Laura Transportation networks with capacity constraints. (English summary) **2004k:90013**
Sethuraman, Jay *see* **Fleischer, Lisa,** (**2004a:68002**)
Shi, Meihong *see* **Zhang, Jun Ying et al.**
Sinha, Amitabh *see* **Garg, Naveen et al., 2004m:90012**
Skutella, Martin *see* **Fleischer, Lisa**
Smith, Alice E. *see* **Konak, Abdullah**
Solé, Ricard V. (*with* Ferrer i Cancho, Ramon; Montoya, Jose M.; Valverde, Sergi) Selection, tinkering, and emergence in complex networks. Crossing the land of tinkering. **2004b:90015**
Soriano, Patrick *see* **Fortz, Bernard et al.**
Spouge, J. (*with* Wan, Honghui; Wilbur, W. J.) Least squares isotonic regression in two dimensions. (English summary) **2004e:90008**
Stier Moses, Nicolás *see* **Schulz, Andreas S.,** (**2004a:68002**)
Stratila, Dan *see* **Lozovanu, Dmitrii, 2004b:90013** *and* **2004e:90007**
Szentesi, Áron *see* **Faragó, András et al., 2004f:90014**
Szviatovszki, Balázs *see* **Faragó, András et al., 2004f:90014**
Talwar, Kunal The single-sink buy-at-bulk LP has constant integrality gap. (English summary)
Tamir, Arie *see* **Mesa, Juan A. et al., 2004f:90017**
Tang, Le Le *see* **Liu, Xiang Hui[2] et al., 2004a:90007**
Traldi, Lorenzo Visualizing clutters. (English summary)
Valverde, Sergi *see* **Solé, Ricard V. et al., 2004b:90015**
Verhaegh, Wim F. J. *see* **Den Boef, Edgar et al.**
Wahle, J. *see* **Chrobok, R. et al.**
Wan, Honghui *see* **Spouge, J. et al., 2004e:90008**
Wang, Defeng *see* **Zhang, Jun Ying et al.**
Wang, Joseph Yue *see* **Zhang, Jun Ying et al.**
Wilbur, W. J. *see* **Spouge, J. et al., 2004e:90008**
Wolsey, Laurence A. *see* **Ortega Riejos, Francisco A., 2004b:90014**
Wynants, Christelle *see* **Fortz, Bernard et al.**
Wynter, Laura *see* **Bouhtou, Mustapha et al.,** (**2004h:90005**)
Yang, X. G. *see* **Zhang, Jian Zhong et al., 2004m:90018**
Yang, Xiao Qi *see* **Meng, Zhi Qing et al.**
Yao, Jing-Shing (*with* Lin, Feng-Tse) Fuzzy shortest-path network problems with uncertain edge weights. (English summary) **2004a:90008**
Yin, Jian Ping *see* **Liu, Xiang Hui[2] et al., 2004a:90007**
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Zhao, Jian Min *see* **Liu, Xiang Hui[2] et al., 2004a:90007**

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Ahmed, Nazimuddin *see* **Das, Shila**
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Arata, Kouji *see* **Ito, Hiro et al., 2004k:90061**
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Baldacci, Roberto (*with* Hadjiconstantinou, Eleni; Mingozzi, A.) An exact algorithm for the traveling salesman problem with deliveries and collections. (English summary) **2004d:90113**
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Bräysy, Olli A reactive variable neighborhood search for the vehicle-routing problem with time windows. (English summary)
Brucker, Peter (*with* Hurink, Johann; Rolfes, Thomas) Routing of railway carriages. (English summary) **2004h:90023**
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Cai, Mao Cheng *see* **Zhang, Jian Zhong et al., 2004j:90142**
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Chen, Yen-Liang (*with* Yang, Hsu-Hao) Finding the first K shortest paths in a time-window network. (English summary)
Cheng, Eddie (*with* Grossman, Jerrold W.; Lipman, Marc J.) Time-stamped graphs and their associated influence digraphs. (English summary) **2004a:05079**
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Corberán, A. (*with* Romero, Antonio; Sanchis, J. M.) The mixed general routing polyhedron. (English summary) **2004e:90145**
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Ding, Zhen (*with* Leung, Henry; Zhu, Zhiwen) Critical temperature of the transiently chaotic neural network. (English summary) **2004d:37143**
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Duni Ekşioğlu, Sandra *see* **Ekşioğlu, Burak et al., 2004m:90171**
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Faber, Vance *see* **Dougherty, Randall**, **2004m:05126**
Fancsali, Alpár An extension of the Bellman-Ford algorithm for QoS routing with inaccurate information. (English summary) **2004m:68005**
Feremans, Corinne (*with* Labbé, Martine; Laporte, Gilbert) Generalized network design problems. (English summary) **2004a:90102**
Fiol, Miguel A. *see* **Comellas, Francesc et al.**, **2004e:05114**
Foulds, Les R. (*with* Neumann, Klaus) A network flow model of group technology. (English summary)
Francis, Bruce A. *see* **Ishii, Hideaki**, **2004c:93002**
Fremuth-Paeger, Christian (*with* Jungnickel, Dieter) An introduction to balanced network flows. (English summary) **2004b:05160**
Fujishige, Satoru (*with* Isotani, Shigueo) New maximum flow algorithms by MA orderings and scaling. (English summary) **2004h:90080**
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Gao, Li Qun *see* **Zhang, Qian et al.**
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Gupta, Nisha *see* **Gupta, Dharmendra Kumar**
Hadjiconstantinou, Eleni *see* **Baldacci, Roberto et al.**, **2004d:90113**
Hassin, Refael *see* **Conforti, Michele et al.**, **2004e:05183**
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Heemels, W. P. Maurice H. *see* **Çamlıbel, M. K. et al.**, **2004h:93122**
Henn, Vincent Route choice making under uncertainty: a fuzzy logic based approach. (English summary) (*see* **2004f:90009**)
Hochbaum, Dorit S. *see* **Ahuja, Ravindra K. et al.**, **2004m:90162**
ter Hofstede, A. H. M. *see* **Kiepuszewski, B. et al.**, **2004d:68088**
Holló, Cs. A procedure based on automaton theory approach for solving modified PNS problems. (English summary) **2004c:90079**
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Honami, Shoji *see* **Ito, Hiro et al.**, **2004k:90061**
Honma, Takashi *see* **Sueyoshi, Toshiyuki**, **2004d:90046**
Hooker, John N. *see* **Kim, Hak-Jin**, **2004j:90136**
Hordijk, Arie *see* **Altman, Eitan et al.**, **2004m:93080**
Hu, Xiang-Pei *see* **Zhang, Qian et al.**
Hurink, Johann *see* **Brucker, Peter et al.**, **2004h:90023**
Hurtado, Ferran *see* **Abellanas, M. et al.**, **2004d:68160**
Icking, C. *see* **Abellanas, M. et al.**, **2004d:68160**
Ishii, Hideaki (*with* Francis, Bruce A.) ★ Limited data rate in control systems with networks. **2004c:93002**
Isotani, Shigueo *see* **Fujishige, Satoru**, **2004h:90080**
Itatsu, Yuichiro *see* **Ito, Hiro et al.**, **2004k:90061**
Ito, Hiro (*with* Makino, Kazuhisa; Arata, Kouji; Honami, Shoji; Itatsu, Yuichiro; Fujishige, Satoru) Source location problem with flow requirements in directed networks. (English summary) **2004k:90061**
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Jin, Yi Hui *see* **Jiang, Yong Heng**
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Jungnickel, Dieter *see* **Fremuth-Paeger, Christian**, **2004b:05160**
Karlsson, Matts *see* **Klarbring, Anders et al.**, **2004f:76029**
Ke, Ke *see* **Nagurney, Anna**, **2004d:91053**
Kiepuszewski, B. (*with* ter Hofstede, A. H. M.; van der Aalst, W. M. P.) Fundamentals of control flow in workflows. (English summary) **2004d:68088**
Kim, Hak-Jin (*with* Hooker, John N.) Solving fixed-charge network flow problems with a hybrid optimization and constraint programming approach. (English summary) **2004j:90136**
Kim, Hyoung Joong (*with* Mani, V.) Divisible load scheduling in single-level tree networks: optimal sequencing and arrangement in the nonblocking mode of communication. (English summary) **2004i:90045**
Kim, Yeong-Dae *see* **Choi, Seong-Hoon**
Király, Zoltán *see* **Józsa, Balázs Gábor et al.**, **2004d:90115**
Klarbring, Anders (*with* Petersson, Joakim; Torstenfelt, Bo; Karlsson, Matts) Topology optimization of flow networks. (English summary) **2004f:76029**
Klay, Francis *see* **Rusinowitch, Michaël et al.**, **2004d:68142**
Klein, Rolf *see* **Abellanas, M. et al.**, **2004d:68160**
Klinz, Bettina (*with* Woeginger, Gerhard J.) Minimum-cost dynamic flows: the series-parallel case. (English summary) **2004m:90178**
Kohno, Tadayoshi *see* **Gabow, Harold N.**
Kong, Shu Lan *see* **Dong, Zhen Ning**
Koulamas, Christos (*with* Kyparisis, George J.) Concurrent flowshop scheduling to minimize makespan. (English summary) **2004m:90047**
Krivoĭ, S. L. (*with* Matveeva, L. E.) Formal methods for the analysis of the properties of systems. (Russian. English and Ukrainian summaries)
Kushilevitz, Eyal *see* **Aiello, William et al.**, **(2004a:68002)**
Kyparisis, George J. *see* **Koulamas, Christos**, **2004m:90047**
(Labahn, Roger) *see* **Workshop: Algorithms, Combinatorics, and Optimization in Interconnection Networks, 1st International, IWACOIN '99**
Labbé, Martine *see* **Feremans, Corinne et al.**, **2004a:90102**
Laber, Eduardo Sany *see* **Milidiú, Ruy Luiz et al.**, **2004f:90052**
Langetepe, Elmar *see* **Abellanas, M. et al.**, **2004d:68160**
Laoutaris, Nikolaos (*with* Zissimopoulos, Vassilis; Stavrakakis, Ioannis) Joint object placement and node dimensioning for internet content distribution. (English summary)
Laporte, Gilbert *see* **Feremans, Corinne et al.**, **2004a:90102**
Larsson, Torbjörn (*with* Yuan, Di) An augmented Lagrangian algorithm for large scale multicommodity routing. (English summary) **2004j:90137**
Lee, Gi Bum (*with* Lee, Jin Soo) Generating Petri net state equation with firing condition functions. (English summary)
Lee, Jin Soo *see* **Lee, Gi Bum**
Lei, J. (*with* Özgüner, Ümit) Optimal decentralized regulation for a class of flow networks. (English summary) **2004a:93004**
Leung, Henry *see* **Ding, Zhen et al.**, **2004d:37143**
Li, Leong Kwan (*with* Yeung, Kit-Ming) Discrete-time recurrent neural networks and trajectory approximation. (English summary) **2004j:62200**
Li, Xiang-Yang Approximate MST for UDG locally. (English summary)
(Liestman, Arthur L.) *see* **Workshop: Algorithms, Combinatorics, and Optimization in Interconnection Networks, 1st International, IWACOIN '99**
Lipman, Marc J. *see* **Cheng, Eddie et al.**, **2004a:05079**
Liu, James Nga Kwok *see* **Ma, Weimin et al.**
Liu, Qi *see* **Xu, Jun Ming**, **2004b:68013**
Liu, Xin[3] *see* **Tao, Qing et al.**
Liu, Xue Mei *see* **Zhang, Qian et al.**
López Lorente, Francisco Javier *see* **Andjel, Enrique Daniel et al.**, **(2004h:00021)**
Lozovanu, Dmitrii (*with* Pasha, Tatiana) An algorithm for solving the transport problem on network with concave cost functions of flow on edges. (English summary) **2004a:90105**
— *see also* **Iusiumbeli, Anatolii**, **2004a:93029**
Ma, Lihong *see* **Abellanas, M. et al.**, **2004d:68160**
Ma, Weimin (*with* Xu, Yinfeng; You, Jane; Liu, James Nga Kwok; Wang, Kanliang) New results on the k-truck problem. (English summary)
Magyar, Gábor *see* **Józsa, Balázs Gábor et al.**, **2004d:90115**
Makino, Kazuhisa *see* **Ito, Hiro et al.**, **2004k:90061**
Mani, V. *see* **Kim, Hyoung Joong**, **2004i:90045**
Margara, Luciano (*with* Simon, Janos) Decidable properties of graphs of all-optical networks. (English summary)
Margot, François (*with* Queyranne, Maurice; Wang, Yaoguang) Decompositions, network flows, and a precedence constrained single-machine scheduling problem. (English summary) **2004i:90051**
Marín, Ángel G. *see* **García, Ricardo et al.**, **2004a:90087**
Martí, Rafael *see* **El Fallahi, Abdellah**, **(2004b:90006)**
(Martins, Ernesto de Queirós Vieira) *see* **Special Issue: In memory of Ernesto Q. V. Martins**
Mathar, Rudolf (*with* Schmeink, Michael) An integrated planning approach for cellular radio networks. (English summary) (*see* **2004d:00011**)
Matveeva, L. E. *see* **Krivoĭ, S. L.**
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Milidiú, Ruy Luiz (*with* Pessoa, Artur Alves; Laber, Eduardo Sany) The complexity of makespan minimization for pipeline transportation. (English summary) **2004f:90052**
Mingozzi, A. *see* **Baldacci, Roberto et al.**, **2004d:90113**
Mitjana, Margarida *see* **Comellas, Francesc et al.**, **2004e:05114**
Mohri, Hiroaki Cost allocation arising from hybrid problem of facility location and network design. (English summary) (*see* **2004d:91002**)
Mulvey, John M. (*with* Simsek, Koray D.) Rebalancing strategies for long-term investors. (English summary) **2004j:91146**
Mutuswami, Suresh (*with* Winter, Eyal) Subscription mechanisms for network formation. (English summary) **2004a:91098**
Nagel, Kai Traffic networks. (English summary) (*see* **2004f:00010**)
Nagurney, Anna (*with* Ke, Ke) Financial networks with electronic transactions: modelling, analysis and computations. (English summary) **2004d:91053**
Nazarova, I. A. A lexicographical problem of the analysis of the vulnerability of a multicommodity network. (Russian. Russian summary) **2004i:90027**
Neumann, Klaus *see* **Foulds, Les R.**
Newman, Mark E. J. Mixing patterns in networks. (English summary) **2004f:91126**
Nguyen Van Thoai *see* **Gotoh, Jun-Ya et al.**, **2004i:90164**
Nikolova, Mariana P. A classification based approach for finding Pareto optimal solutions of the multicriteria network flow. (English and Russian summaries)
Okada, Shinkoh Fuzzy shortest path problems incorporating interactivity among paths. (English summary) **2004k:68014**
Orlin, James B. *see* **Ahuja, Ravindra K. et al.**, **2004j:90129** *and* **2004m:90162**
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Edelson, William *see* **DeCicco, Joseph et al., 2004g:90016**
Fattahova, Mehriban I. *see* **Melikov, Agassi Z.**
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Freund, Ari *see* **Bar-Noy, Amotz et al., 2004d:90006**
Gargano, Michael L. *see* **DeCicco, Joseph et al., 2004g:90016**
Gąsieniec, Leszek *see* **Chrobak, Marek et al., 2004j:90020**
Gong, Zhigang *see* **Cheng, Maggie Xiaoyan et al., 2004f:90018**
(Gupta, Piyush) *see* **Kumar, Panganamala Ramana**
Gutin, Gregory *see* **Ben-Arieh, D. et al., 2004e:90012**
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Hsieh, Yi-Che *see* **Hsieh, Chung-Chi**
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Hwang, Hsien-Kuei *see* **Chen, Wei-Mei, 2004c:90008**
Ishii, Hiroaki[1] *see* **Yoon, Moon-Gil**
Ishii, Naohiro *see* **Kimura, Mitsutaka et al., 2004k:90017**
Jennings, Otis B. *see* **Dai, Jian Gang, 2004a:90013**
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Landa, Shimon *see* **Bar-Noy, Amotz et al., 2004d:90006**
Laporte, Gilbert *see* **Labbé, Martine et al., 2004m:90025**
van de Leensel, Robert L. M. J. *see* **van Hoesel, C. P. M. et al., 2004k:90015**
Lemaire, Pierre *see* **Brauner, Nadia et al.**
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Marín, Ángel G. *see* **Barbas, Javier**
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Nakagawa, Toshio *see* **Kimura, Mitsutaka et al., 2004k:90017**
Naor, Joseph *see* **Bar-Noy, Amotz et al., 2004d:90006**
Oğuz, Osman *see* **Ouveysi, Iradj et al.**
Olinick, Eli V. *see* **Kennington, Jeffery L.**
Oliveira, Carlos A. S. *see* **Butenko, Sergiy et al., (2004k:90008)**
Ousmane, Samake *see* **Li, Guo Jun[1] et al.**
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Pan, Zigang (*with* Altman, Eitan; Başar, Tamer) Robust adaptive flow control in high speed telecommunication networks. (English summary) **2004e:90014**
Panayiotou, Christos G. *see* **Cassandras, Christos G. et al., 2004b:90019**
Pardalos, Panos M. *see* **Butenko, Sergiy et al., (2004k:90008)**
Pascoal, Marta M. B. *see* **Clímaco, João C. N. et al., 2004m:90024**
Patson, Noel *see* **Korotkikh, V. V., (2004b:90008)**
Pawlikowski, K. *see* **Jeong, Hae-Duck J. et al., 2004k:90016**
Penn, Michal *see* **Ben-Arieh, D. et al., 2004e:90012**
Pollett, Philip K. *see* **Thompson, M. R., 2004j:90023**
Povh, Janez *see* **Rendl, Franz, (2004m:90005)**
Prabhakaran, Manoj *see* **Liu, Ding[1]**
Qin, Hao *see* **Zhang, Shi et al.**
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Rytter, Wojciech *see* **Chrobak, Marek et al., 2004j:90020**
Salazar González, Juan José *see* **Labbé, Martine et al., 2004m:90025**
Sanders, Peter *see* **Beier, René et al.**
Savelsbergh, Martin W. P. *see* **van Hoesel, C. P. M. et al., 2004k:90015**
Scheinhardt, Werner *see* **van Foreest, Nicky et al., 2004d:90007**
Schmeink, Michael *see* **Mathar, Rudolf, (2004d:00011)**
Silvestri, Riccardo *see* **Clementi, Andrea E. F. et al., 2004c:90009**
Sivadasan, Naveen *see* **Beier, René et al.**
Stougie, Leen *see* **Dye, Shane et al., 2004j:90022**
Sun, Gang[1] *see* **Cassandras, Christos G. et al., 2004b:90019**
Talukdar, Sarosh *see* **Camponogara, Eduardo, 2004m:90023**
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Thompson, M. R. (*with* Pollett, Philip K.) A reduced load approximation accounting for link interactions in a loss network. (English summary) **2004j:90023**
Tomasgard, Asgeir *see* **Dye, Shane et al., 2004j:90022**
de Veciana, Gustavo *see* **Weber, Steven, 2004d:90008**
Voulgaris, Petros G. Optimal control design under structural and communication constraints. (English summary) (*see* **2004d:93004**)
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Wardi, Yorai *see* **Cassandras, Christos G. et al., 2004b:90019**
Weber, Steven (*with* de Veciana, Gustavo) Asymptotic analysis of rate adaptive multimedia streams. (English summary) **2004d:90008**
Wirth, Andrew *see* **Ouveysi, Iradj et al.**
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Yasui, Kazumi *see* **Kimura, Mitsutaka et al., 2004k:90017**

Yeh, Annie *see* **Ouveysi, Iradj et al.**
Yeo, Anders *see* **Ben-Arieh, D. et al., 2004e:90012**
Yin, Min *see* **Tan, Lian-Sheng**
Yoon, Moon-Gil (*with* Ishii, Hiroaki[1]) An efficient heuristic for traffic grooming and light-path routing in WDM ring networks with hop-count constraint. (English summary)
Zatopiański, Jan *see* **Jurdziński, Tomasz et al.**
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Zhou, Guo-fei *see* **Yao, Tianxing et al.**
Zhou, Jianguo *see* **Yao, Tianxing et al.**
Zomaya, Albert Y. *see* **Datta, Amitava**
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Admati, Anat R. (*with* Pfleiderer, Paul) Broadcasting opinions with an overconfident sender. (English summary) **2004m:91045**
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Ambuehl, Christoph *see* **Adamy, Udo et al.**
Anand, R. Sai *see* **Adamy, Udo et al.**
Awerbuch, Baruch (*with* Bartal, Yair; Fiat, Amos) Competitive distributed file allocation. (English summary) **2004f:68003**
Balestra, Michele *see* **Setti, Gianluca et al., (2004e:93002)**
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Bartal, Yair *see* **Awerbuch, Baruch et al., 2004f:68003**
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Baum, Dieter *see* **Tsitsiashvili, G. Sh. et al., 2004f:60211**
Bouhtou, Mustapha *see* **Nguyen, Thanh Quang et al., (2004h:90005)**
Bouras, Christos (*with* Kapoulas, Vaggelis; Pantziou, Grammati; Spirakis, Paul G.) Competitive video on demand schedulers for popular movies. (English summary) **2004f:68037**
Boustique, Hatim *see* **Abbad, Mohammed, 2004g:90130**
Callegari, Sergio *see* **Setti, Gianluca et al., (2004e:93002)**
Çam, Hasan Rearrangeability of $(2n-1)$-stage shuffle-exchange networks. (English summary) **2004i:68004**
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Chen, Guanrong *see* **Wang, Xiao Fan et al., 2004m:93089**
Chen, Jian Er *see* **Oh, Eunseuk, 2004i:05086**
Chlebus, Bogdan S. Randomized communication in radio networks. (English summary) **2004b:68006**
Corbacho, Fernando *see* **Aguirre, Carlos et al., 2004a:68003**
Dai, Fei *see* **Wu, Jie[5], 2004b:68012**
Davison, Edward J. *see* **İftar, Altuğ, 2004a:93003**
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Erlebach, Thomas *see* **Adamy, Udo et al.**
Fan, Guangbin (*with* Zhang, Jingyuan) Optimal cellular network deployment reusing existing base stations. (English summary) **2004c:68144**
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Feki, Moez An adaptive chaos synchronization scheme applied to secure communication. (English summary) **2004d:93061**
Fiat, Amos *see* **Awerbuch, Baruch et al., 2004f:68003**
Fraigniaud, Pierre *see* **Barrière, Lali et al., (2004a:68002)**
Frieder, Ophir *see* **Alzoubi, Khaled M. et al., 2004c:68105**
Gandhi, Rajiv (*with* Khuller, Samir; Kim, Yoo Ah; Wan, Yung-Chun) Algorithms for minimizing response time in broadcast scheduling. (English summary)
Gavoille, Cyril *see* **Eilam, Tamar et al., 2004b:68007**
Guillemin, Fabrice (*with* Robert, Philippe; Zwart, Bert) AIMD algorithms and exponential functionals. (English summary) **2004m:60216**
Gupta, Anupam *see* **Chekuri, Chandra et al.**
Gushchinskiĭ, N. N. *see* **Dolgui, Alexandre et al., (2004h:93004)**
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Henzinger, Monika R. (*with* Leonardi, Stefano) Scheduling multicasts on unit-capacity trees and meshes. (English summary) **2004f:90049**
Huerta, Ramón *see* **Aguirre, Carlos et al., 2004a:68003**
Hunsaker, Brady (*with* Kleywegt, Anton J.; Savelsbergh, Martin W. P.; Tovey, Craig A.) Optimal online algorithms for minimax resource scheduling. (English summary) **2004k:68069**
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Jia, Bin *see* **Jiang, Rui et al., 2004i:90017**
Jian, Ming-Shian *see* **Yang, Ming-Hour et al., 2004c:68012**
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Kanellopoulos, Panagiotis *see* **Caragiannis, Ioannis et al., 2004b:68187**
Kapoulas, Vaggelis *see* **Bouras, Christos et al., 2004f:68037**
Kawadia, Vikas *see* **Narayanaswamy, Swetha et al.**
Kenyon, Claire (*with* Schabanel, Nicolas) The data broadcast problem with non-uniform transmission times. (English summary) **2004i:68011**
Khuller, Samir *see* **Gandhi, Rajiv et al.**
Kim, Yoo Ah *see* **Gandhi, Rajiv et al.**
Kirousis, Lefteris M. (*with* Kranakis, Evangelos; Krizanc, Danny; Stamatiou, Yannis C.) Locating information with uncertainty in fully interconnected networks: the case of nondistributed memory. (English summary) **2004g:68030**
Kleywegt, Anton J. *see* **Hunsaker, Brady et al., 2004k:68069**
Ko, King-Tim *see* **Wang, Xiao Fan et al., 2004m:93089**
Koliev, N. V. *see* **Tsitsiashvili, G. Sh. et al., 2004f:60211**
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Koutsoupias, Elias (*with* Mavronicolas, Marios; Spirakis, Paul G.) Approximate equilibria and ball fusion. (English summary) **2004i:68006**
Kranakis, Evangelos *see* **Kirousis, Lefteris M. et al., 2004g:68030**
Krizanc, Danny *see* **Kirousis, Lefteris M. et al., 2004g:68030**
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Kumar, Amit[2] *see* **Chekuri, Chandra et al.**
Kumar, Panganamala Ramana *see* **Narayanaswamy, Swetha et al.**
Leonardi, Stefano *see* **Henzinger, Monika R., 2004f:90049**
Levin, Genadi M. *see* **Dolgui, Alexandre et al., (2004h:93004)**
Li, Guo Jun[1] *see* **Zhang, Shao Qiang**
Li, Jian Dong *see* **Liu, Kai[3] et al.**
Li, Yan Jun *see* **Könemann, Jochen et al.**
Lin, Wen-Dar *see* **Hwang, Frank K., 2004e:90006**
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Lutton, J.-L. *see* **Nguyen, Thanh Quang et al., (2004h:90005)**
Malhamé, Roland P. *see* **Sadr, Javad, 2004j:90144**
Manton, Jonathan H. Design and analysis of linear precoders under a mean square error criterion. I. Foundations and worst case designs. (English summary) **2004i:94005**
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Matveev, A. S. (*with* Savkin, A. V.) Optimal computer control via communication channels with irregular transmission times. (English summary) **2004a:93088**
Mavronicolas, Marios *see* **Koutsoupias, Elias et al., 2004i:68006**
McDiarmid, Colin *see* **Luczak, Malwina J. et al., 2004a:90010**
Melnikov, Valery V. *see* **Zakharov, Viktor, 2004m:91146**
Naor, Joseph *see* **Chekuri, Chandra et al.**
Narayanan, Lata *see* **Barrière, Lali et al., (2004a:68002)**
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Oh, Eunseuk (*with* Chen, Jian Er) On strong Menger-connectivity of star graphs. (English summary) **2004i:05086**
Opatrny, Jaroslav *see* **Barrière, Lali et al., (2004a:68002)**
Oppermann, C. *see* **Ali, M. Montaz et al., (2004b:90008)**
Orlin, James B. *see* **Ahuja, Ravindra K. et al., 2004b:90089**
Osipova, M. A. *see* **Tsitsiashvili, G. Sh. et al., 2004f:60211**

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Pantziou, Grammati *see* **Bouras, Christos et al., 2004f:68037**
Parekh, Ojas *see* **Könemann, Jochen et al.**
Park, Koohyun (*with* Shin, Yong-Sik) Uncapacitated point-to-multipoint network flow problem and its application to multicasting in telecommunication networks. (English summary) **2004k:90148**
Peleg, David *see* **Eilam, Tamar et al., 2004b:68007**
Pfander, Götz E. *see* **Jetter, K. et al., 2004f:42001**
Pfleiderer, Paul *see* **Admati, Anat R., 2004m:91045**
Poensgen, Diana *see* **Krumke, Sven Oliver**
Pruhs, Kirk R. *see* **Kalyanasundaram, Bala et al., 2004i:90043**
Raz, Danny *see* **Chekuri, Chandra et al.**
Ren, Feng *see* **He, Yong[1] et al.**
Resende, Mauricio G. C. Combinatorial optimization in telecommunications. (English summary) (*see* **2004b:90008**)
Resnick, Sidney I. (*with* Samorodnitsky, Gennady) Limits of on/off hierarchical product models for data transmission. (English summary) **2004j:60193**
Robert, Philippe *see* **Guillemin, Fabrice et al., 2004m:60216**
Rovatti, Riccardo *see* **Setti, Gianluca et al., (2004e:93002)**
Sadr, Javad (*with* Malhamé, Roland P.) Decomposition/aggregation-based dynamic programming optimization of partially homogeneous unreliable transfer lines. (English summary) **2004j:90144**
Samorodnitsky, Gennady *see* **Resnick, Sidney I., 2004j:60193**
Savelsbergh, Martin W. P. *see* **Hunsaker, Brady et al., 2004k:68069**
Savkin, A. V. *see* **Matveev, A. S., 2004a:93088**
Schabanel, Nicolas *see* **Kenyon, Claire, 2004i:68011**
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Sharma, Dushyant *see* **Ahuja, Ravindra K. et al., 2004b:90089**
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Sinha, Amitabh *see* **Könemann, Jochen et al.**
Spirakis, Paul G. *see* **Bouras, Christos et al., 2004f:68037** *and* **Koutsoupias, Elias et al., 2004i:68006**
Sreenivas, R. S. *see* **Narayanaswamy, Swetha et al.**
Srikant, R. *see* **Başar, Tamer, 2004b:91055** *and* **Deb, Supratim**
Stamatiou, Yannis C. *see* **Kirousis, Lefteris M. et al., 2004g:68030**
Stolletz, Raik ★ Performance analysis and optimization of inbound call centers. **2004e:90002**
Stolyar, A. L. Scheduling of a generalized switch: heavy traffic regime. (English summary) **2004d:90034**
Stougie, Leen *see* **Dye, Shane et al., 2004g:68197**
Tan, Zhi Yi *see* **He, Yong[1] et al.**
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Thomas, E. J. Stability of patchwork-JSQ feedback networks. (English summary) **2004e:60154**
Tomasgard, Asgeir *see* **Dye, Shane et al., 2004g:68197**
Tovey, Craig A. *see* **Hunsaker, Brady et al., 2004k:68069**
Tseng, Yu-Chee *see* **Yang, Ming-Hour et al., 2004c:68012**
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Upfal, Eli *see* **Luczak, Malwina J. et al., 2004a:90010**
Velauthapillai, Mahendran *see* **Kalyanasundaram, Bala et al., 2004i:90043**
Wan, Peng-Jun *see* **Alzoubi, Khaled M. et al., 2004c:68105**
Wan, Yung-Chun *see* **Gandhi, Rajiv et al.**
Wang, Chih-Min *see* **Yu, Gwo-Jong et al.**
Wang, Xiao Fan (*with* Chen, Guanrong; Ko, King-Tim) A stability theorem for internet congestion control. (English summary) **2004m:93089**
Wang, Yufei *see* **Sheng, Li[1] et al., 2004e:68008**
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— *see also* **Sheng, Li[1] et al., 2004e:68008**
Wu, Qing-Song *see* **Jiang, Rui et al., 2004i:90017**
Yang, Ming-Hour (*with* Tseng, Yu-Chee; Jian, Ming-Shian) Multi-node multicast in multi-dimensional wormhole tori and meshes with load balance. (English summary) **2004c:68012**
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Yu, Gwo-Jong (*with* Wang, Chih-Min; Chang, Chih-Yung) Role switching techniques for improving throughput over Bluetooth wireless networks. (English summary)
Zakharov, Viktor (*with* Melnikov, Valery V.) A game theoretic model for the network service. **2004m:91146**
Zhang, Jingyuan *see* **Fan, Guangbin, 2004c:68144**
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Zhang, Wen Zhu *see* **Liu, Kai[3] et al.**
Zimmermann, Georg *see* **Jetter, K. et al., 2004f:42001**
Zwart, Bert *see* **Guillemin, Fabrice et al., 2004m:60216**

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Stolletz, Raik, 2004e:90002**

90B20 Traffic problems

Abass, Samir Abdou *see* **Saad, Omar M., 2004a:90016**
van Antwerpen de Fluiter, Babette *see* **Jansen, Benjamin et al.**
Argall, Brenna (*with* Cheleshkin, Eugene; Greenberg, James M.; Hinde, Colin; Lin, Pei-Jen) A rigorous treatment of a follow-the-leader traffic model with traffic lights present. (English summary) **2004e:90015**
Arkin, Esther M. (*with* Hassin, Refael; Rubinstein, Shlomi; Sviridenko, M. I.) Approximations for maximum transportation with permutable supply vector and other capacitated star packing problems. (English summary)
Bellomo, Nicola *see* **Bertotti, Maria Letizia, 2004e:90016**
Belomestny, Denis (*with* Jentsch, V.; Schreckenberg, M.) Completion and continuation of nonlinear traffic time series: a probabilistic approach. (English summary) **2004i:90016**
Benzoni-Gavage, Sylvie (*with* Colombo, Rinaldo M.) An n-populations model for traffic flow. (English summary) **2004k:90018**
Bertotti, Maria Letizia (*with* Bellomo, Nicola) Boundary value steady solutions of a class of hydrodynamic models for vehicular traffic flow. (English summary) **2004e:90016**
Bez, E. T. (*with* Gonçalves, M. B.) Analysis of the behavior of some adjustment measures used in determining the parameters of trip distribution models. (Portuguese. English and Portuguese summaries)
Bonzani, I. (*with* Mussone, L.) From experiments to hydrodynamic traffic flow models. I. Modelling and parameter identification. (English summary)
Chang, Chia-Sheng (*with* Chen, Kwang-Cheng) On continuous-time optimal deterministic traffic regulation. (English summary) **2004e:90017**
Cheleshkin, Eugene *see* **Argall, Brenna et al., 2004e:90015**
Chen, Kwang-Cheng *see* **Chang, Chia-Sheng, 2004e:90017**
Chiang, Shu-Yin Performance analysis of ATM multiplexer with Bernoulli traffic sources. (English summary) **2004a:90014**
Ching, Wai-Ki (*with* Scholtes, Stefan; Zhang, Shu-Qin) Numerical algorithms for dynamic traffic demand estimation between zones in a network. (English summary) **2004m:90026**
Chiteshe, Able *see* **Selekwa, Majura F. et al.**
Choi, Seong-Hoon (*with* Kim, Yeong-Dae) Reallocation of paths of ABR services in a multistage interconnection network (MIN)-type ATM switch network. (English summary)
Chou, Yi-Hwa *see* **Sheu, Jiuh-Biing et al., 2004g:90018**
Colombo, Rinaldo M. *see* **Benzoni-Gavage, Sylvie, 2004k:90018**
Dai, Shi Qiang *see* **Ge, Hong-xia et al.**
D'Apuzzo, M. (*with* Marino, Marina) Parallel computational issues of an interior point method for solving large bound-constrained quadratic programming problems. (English summary) **2004e:90018**
Dong, June *see* **Nagurney, Anna et al., 2004j:90025**
Dong, Li-yun *see* **Ge, Hong-xia et al.**
Ferrari, Paolo Optimal flow pattern in road networks. (English summary) **2004j:90024**
Filar, Jerzy A. (*with* Manyem, Prabhu; Visser, Marc Simon; White, Kevin) Air traffic management at Sydney with cancellations and curfew penalties. (English summary) (*see* **2004b:90008**)
Fleuren, Hein A. *see* **Jansen, Benjamin et al.**
Fouladvand, M. Ebrahim (*with* Sadjadi, Zeinab; Shaebani, M. Reza) Optimized traffic flow at a single intersection: traffic responsive signalization. (English summary)
Fukui, Minoru *see* **Nishinari, Katsuhiro et al., 2004m:90027**
Ge, Hong-xia (*with* Dong, Li-yun; Lei, Li[2]; Dai, Shi Qiang) A modified cellular automaton model for traffic flow. (English summary)
Gonçalves, M. B. *see* **Bez, E. T.**
Greenberg, James M. (*with* Klar, Axel; Rascle, Michel) Congestion on multilane highways. (English summary) **2004b:90021**
— *see also* **Argall, Brenna et al., 2004e:90015**
Gupta, Dharmendra Kumar (*with* Gupta, Nisha) Stochastic techniques for vehicle routing problems. (English summary)
Gupta, Nisha *see* **Gupta, Dharmendra Kumar**
Haddad, A. H. *see* **Lee, Chung Chieh, 2004a:90015**
Hansen, James V. Genetic search methods in air traffic control. (English summary)
Hassin, Refael *see* **Arkin, Esther M. et al.**
Helbing, Dirk A section-based queueing-theoretical traffic model for congestion and travel time analysis in networks. (English summary) **2004k:90019**
Hill, Scott A. Numerical analysis of a time-headway bus route model. (English summary)
Hinde, Colin *see* **Argall, Brenna et al., 2004e:90015**
Jansen, Benjamin (*with* Swinkels, Pieter C. J.; Teeuwen, Geert J. A.; van Antwerpen de Fluiter, Babette; Fleuren, Hein A.) Operational planning of a large-scale multi-modal transportation system. (English summary)
Jentsch, V. *see* **Belomestny, Denis et al., 2004i:90016**
Jia, Bin *see* **Jiang, Rui et al., 2004i:90017**
Jiang, Rui (*with* Jia, Bin; Wu, Qing-Song) The stochastic randomization effect in the on-ramp system: single-lane main road and two-lane main road situations. (English summary) **2004i:90017**
Kao, Chiang *see* **Liu, Shiang-Tai**
Khoshyaran, M. M. *see* **Lebacque, J. P., (2004k:65005)**
Kim, Yeong-Dae *see* **Choi, Seong-Hoon**
Klar, Axel *see* **Greenberg, James M. et al., 2004b:90021**
Kranakis, Evangelos (*with* Penna, Paolo; Schlude, Konrad; Taylor, David Scot; Widmayer, Peter) Improving customer proximity to railway stations. (English summary) (*see* **2004j:68002**)
Lárraga, M. E. (*with* del Río, J. A.; Schadschneider, Andreas) New kind of phase separation in a CA traffic model with anticipation. (English summary)
Lebacque, J. P. (*with* Khoshyaran, M. M.) Modelling vehicular traffic flow on networks using macroscopic models. (English summary) (*see* **2004k:65005**)
Lee, Chung Chieh (*with* Haddad, A. H.) QoS-guided bandwidth management in differentiated time scales. (English summary) **2004a:90015**
Lei, Li[2] *see* **Ge, Hong-xia et al.**
Lin, Pei-Jen *see* **Argall, Brenna et al., 2004e:90015**
Liu, Shiang-Tai (*with* Kao, Chiang) Solving fuzzy transportation problems based on

extension principle. (English summary)
Lučić, Panta (*with* Teodorović, Dušan) Vehicle routing problem with uncertain demand at nodes: the bee system and fuzzy logic approach. (English summary) (*see* **2004f:90009**)
Ma, Yu-Qiang *see* **Yang, Xian-Qing et al.**
Manyem, Prabhu *see* **Filar, Jerzy A. et al.**, (**2004b:90008**)
Marino, Marina *see* **D'Apuzzo, M.**, **2004e:90018**
Mastroeni, Giandomenico A Markov chain model for traffic equilibrium problems. (English summary) **2004d:90009**
Mokhtarian, Patricia L. *see* **Nagurney, Anna et al.**, **2004j:90025**
Mussa, Renatus N. *see* **Selekwa, Majura F. et al.**
Mussone, L. *see* **Bonzani, I.**
Nagatani, Takashi Complex motions of shuttle buses by speed control. (English summary) **2004d:90010**
— Complex behavior of elevators in peak traffic. (English summary)
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— *see also* **Sasaki, Masashi**
Nagel, Kai Traffic networks. (English summary) (*see* **2004f:00010**)
— (*with* Wagner, Peter[3]; Woesler, Richard) Still flowing: approaches to traffic flow and traffic jam modeling. (English summary) **2004g:90017**
Nagurney, Anna (*with* Dong, June; Mokhtarian, Patricia L.) Traffic network equilibrium and the environment. (English summary) **2004j:90025**
Nijkamp, Peter (*with* Reggiani, Aura; Tsang, Wai Fai) Comparative modelling of interregional transport flows: applications to multimodal European freight transport. (English summary)
Nishinari, Katsuhiro (*with* Fukui, Minoru; Schadschneider, Andreas) A stochastic cellular automaton model for traffic flow with multiple metastable states. (English summary) **2004m:90027**
Penna, Paolo *see* **Kranakis, Evangelos et al.**, (**2004j:68002**)
Raciti, Fabio Equilibrium in time dependent traffic networks with delay. (English summary) **2004j:90026**
Rascle, Michel *see* **Greenberg, James M. et al.**, **2004b:90021**
Reggiani, Aura *see* **Nijkamp, Peter et al.**
del Rio, J. A. *see* **Lárraga, M. E. et al.**
Rubinstein, Shlomi *see* **Arkin, Esther M. et al.**
Saad, Omar M. (*with* Abass, Samir Abdou) A parametric study on transportation problem under fuzzy environment. (English summary) **2004a:90016**
Sadjadi, Zeinab *see* **Fouladvand, M. Ebrahim et al.**
Sasaki, Masashi (*with* Nagatani, Takashi) Transition and saturation of traffic flow controlled by traffic lights. (English summary)
Schadschneider, Andreas *see* **Nishinari, Katsuhiro et al.**, **2004m:90027** *and* **Lárraga, M. E. et al.**
Schlude, Konrad *see* **Kranakis, Evangelos et al.**, (**2004j:68002**)
Scholtes, Stefan *see* **Ching, Wai-Ki et al.**, **2004m:90026**
Schreckenberg, M. *see* **Belomestny, Denis et al.**, **2004i:90016**
Selekwa, Majura F. (*with* Mussa, Renatus N.; Chiteshe, Able) Application of LQ modelling and optimization in urban traffic control. (English summary)
Shaebani, M. Reza *see* **Fouladvand, M. Ebrahim et al.**
Sheu, Jiuh-Biing (*with* Chou, Yi-Hwa; Weng, Mei-Chuan) Stochastic system modeling and optimal control of incident-induced traffic congestion. (English summary) **2004g:90018**
Sopasakis, Alexandros Formal asymptotic models of vehicular traffic. Model closures. (English summary) **2004f:90021**
Sviridenko, M. I. *see* **Arkin, Esther M. et al.**
Swinkels, Pieter C. J. *see* **Jansen, Benjamin et al.**
Taylor, David Scot *see* **Kranakis, Evangelos et al.**, (**2004j:68002**)
Teeuwen, Geert J. A. *see* **Jansen, Benjamin et al.**
Teodorović, Dušan *see* **Lučić, Panta**, (**2004f:90009**)
Tsang, Wai Fai *see* **Nijkamp, Peter et al.**
Twarock, Reidun Quadratic algebras in traffic flow models. (English summary) **2004g:90019**
Visser, Marc Simon *see* **Filar, Jerzy A. et al.**, (**2004b:90008**)
Wagner, Peter[3] *see* **Nagel, Kai et al.**, **2004g:90017**
Waldeer, K. T. A vehicular traffic flow model based on a stochastic acceleration process. (English summary) **2004k:90020**
Weng, Mei-Chuan *see* **Sheu, Jiuh-Biing et al.**, **2004g:90018**
White, Kevin *see* **Filar, Jerzy A. et al.**, (**2004b:90008**)
Widmayer, Peter *see* **Kranakis, Evangelos et al.**, (**2004j:68002**)
Woesler, Richard *see* **Nagel, Kai et al.**, **2004g:90017**
Wu, Qing-Song *see* **Jiang, Rui et al.**, **2004i:90017**
Yang, Xian-Qing (*with* Ma, Yu-Qiang; Zhao, Yue-Min) Boundary effects on car accidents in a cellular automaton model. (English summary)
Zhang, Shu-Qin *see* **Ching, Wai-Ki et al.**, **2004m:90026**
Zhao, Yue-Min *see* **Yang, Xian-Qing et al.**
Zhou, Jing[2] Stochastic user equilibrium and its variational inequility problem. (Chinese. English and Chinese summaries)

Items with secondary classifications in 90B20

Altman, Eitan *see* **El Azouzi, R.**, **2004f:91014**
Bakule, Lubomír (*with* Rodellar, José; Rossell i Garriga, Josep Maria) Robust overlapping decentralized control of a platoon of vehicles. (English summary) (*see* **2004h:00015**)
(Bielli, M.) *see* **Traffic and transportation systems analysis**
Boimond, Jean-Louis *see* **Lahaye, Sébastien et al.**, (**2004g:00018**)
Boland, Natashia (*with* Krishnamoorthy, Mohan; Ernst, Andreas T.; Ebery, Jamie) Preprocessing and cutting for multiple allocation hub location problems. (English summary)
Borndörfer, Ralf *see* **Grötschel, Martin et al.**, (**2004d:00011**)
Borst, S. C. (*with* Mandjes, Michel; van Uitert, Miranda) Generalized processor sharing queues with heterogeneous traffic classes. (English summary) **2004d:60233**
Bovy, Piet H. L. *see* **Hoogendoorn, Serge**, **2004d:93088**
Castelli, Lorenzo (*with* Pesenti, Raffaele; Ukovich, Walter) Scheduling multimodal transportation systems. (English summary)
Chan, Chi-Lok *see* **Young, Gilbert H.**
Chen, Yang-zhou *see* **Li, Bing**
Cipriani, Ernesto (*with* Fusco, Gaetano) Combined signal setting design and traffic assignment problem. (English summary)
Colombo, Rinaldo M. (*with* Marson, Andrea) A Hölder continuous ODE related to traffic flow. (English summary) **2004i:34004**
Daganzo, Carlos F. ★ A theory of supply chains. **2004b:90003**
Darbha, Swaroop (*with* Rajagopal, Kumbakonam R.) Aggregation of a class of interconnected, linear dynamical systems. (English summary) **2004g:93012**
Doerner, Karl F. (*with* Hartl, Richard F.; Reimann, Marc) CompetAnts for problem solving: the case of full truckload transportation. (English summary) **2004i:90195**
Ebery, Jamie *see* **Boland, Natashia et al.**
El Azouzi, R. (*with* Altman, Eitan) Constrained traffic equilibrium in routing. (English summary) **2004f:91014**
El Moudni, A. *see* **Nait-Sidi-Moh, A. et al.**, **2004f:93085**
Ernst, Andreas T. *see* **Boland, Natashia et al.**
Fernández, Elena (*with* Meza, Oscar; Garfinkel, Robert; Ortega, Maruja) On the undirected rural postman problem: tight bounds based on a new formulation. (English summary) **2004b:90093**
Ferreira, José Rui *see* **Figueiredo, Lino et al.**
Figueiredo, Lino (*with* Tenreiro Machado, J. A.; Ferreira, José Rui) Fractional-order dynamics in freeway traffic. (English summary)
Fusco, Gaetano *see* **Cipriani, Ernesto**
Garfinkel, Robert *see* **Fernández, Elena et al.**, **2004b:90093**
Glynn, Peter W. *see* **Zeevi, Assaf**, **2004m:62178**
Gronalt, Manfred (*with* Hartl, Richard F.; Reimann, Marc) New savings based algorithms for time constrained pickup and delivery of full truckloads. (English summary)
Grötschel, Martin (*with* Borndörfer, Ralf; Löbel, Andreas) Duty sceduling in public transit. (English summary) (*see* **2004d:00011**)
Hartl, Richard F. *see* **Doerner, Karl F. et al.**, **2004i:90195** *and* **Gronalt, Manfred et al.**
Henn, Vincent Route choice making under uncertainty: a fuzzy logic based approach. (English summary) (*see* **2004f:90009**)
Hoogendoorn, Serge (*with* Bovy, Piet H. L.) Simulation of pedestrian flows by optimal control and differential games. (English summary) **2004d:93088**
Houssin, Laurent *see* **Lahaye, Sébastien et al.**, (**2004g:00018**)
Idone, Giovanna Variational inequalities and applications to a continuum model of transportation network with capacity constraints. (English summary) **2004j:49015**
Joglekar, Nitindra *see* **Peköz, Erol A.**, **2004j:60190**
Jokela, Visa-Matti *see* **Lieska, Kai et al.**
Kang, H. S. (*with* Kang, K.) Neurocybernetic self regulation and envelop entropy in shared queuing chains. (English summary) **2004h:90087**
Kang, K. *see* **Kang, H. S.**, **2004h:90087**
Kennington, Jeffery L. (*with* Olinick, Eli V.) Wavelength translation in WDM networks: optimization models and solution procedures. (English summary)
Klingenberg, Christian (*with* Lu, Yun-Guang; Zhao, Hui-jiang) L^1 singular limit for relaxation and viscosity approximations of extended traffic flow models. (English summary) **2004d:35155**
Krishnamoorthy, Mohan *see* **Boland, Natashia et al.**
Lahaye, Sébastien (*with* Houssin, Laurent; Boimond, Jean-Louis) Modelling of urban bus networks in dioids algebra. (English summary) (*see* **2004g:00018**)
Laitinen, Erkki J. *see* **Lieska, Kai et al.**
Li, Bing (*with* Chen, Yang-zhou) Nonlinear H_∞ control for network level dynamic traffic routing. (English and Chinese summaries)
Lieska, Kai (*with* Jokela, Visa-Matti; Laitinen, Erkki J.) A simulation of traffic equilibration multi-path routing in ad hoc networks. (English summary)
Lindner, T. *see* **Zimmermann, Uwe T.**, (**2004d:00011**)
Löbel, Andreas *see* **Grötschel, Martin et al.**, (**2004d:00011**)
Lu, Yun-Guang *see* **Klingenberg, Christian et al.**, **2004d:35155**
Mandjes, Michel *see* **Borst, S. C. et al.**, **2004d:60233**
Manier, M.-A. *see* **Nait-Sidi-Moh, A. et al.**, **2004f:93085**
Manter, H. *see* **Nait-Sidi-Moh, A. et al.**, **2004f:93085**
Marigo, Alessia (*with* Piccoli, Benedetto) Cooperative controls for air traffic management. (English summary) **2004g:49063**
Marino, Francesco Existence theorems for a class of variational inequalities and applications to a continuous model of transportation. (English summary) **2004k:49022**
Marson, Andrea *see* **Colombo, Rinaldo M.**, **2004i:34004**
Maulik, Krishanu (*with* Resnick, Sidney I.) Small and large time scale analysis of a network traffic model. (English summary) **2004a:90011**
— (*with* Resnick, Sidney I.) The self-similar and multifractal nature of a network traffic model. (English summary) **2004g:60063**
Meza, Oscar *see* **Fernández, Elena et al.**, **2004b:90093**
Murray, Alan T. A coverage model for improving public transit system accessibility and expanding access. (English summary)
Nagatani, Takashi Fluctuation of tour time induced by interactions between cyclic trams. (English summary)
Nait-Sidi-Moh, A. (*with* Manier, M.-A.; El Moudni, A.; Manter, H.) Performance analysis of a bus network based on Petri nets and (max, +) algebra. (English summary) **2004f:93085**
Oettli, Werner Necessary and sufficient conditions of Wardrop type for vectorial traffic equilibria. (English summary) **2004h:90009**
Olinick, Eli V. *see* **Kennington, Jeffery L.**
Ortega, Maruja *see* **Fernández, Elena et al.**, **2004b:90093**
Peköz, Erol A. (*with* Joglekar, Nitindra) Poisson traffic flow in a general feedback queue. (English summary) **2004j:60190**
Pesenti, Raffaele *see* **Castelli, Lorenzo et al.**
Piccoli, Benedetto *see* **Marigo, Alessia**, **2004g:49063**
Powell, Warren B. (*with* Topaloglu, Huseyin) Stochastic programming in transportation and logistics. (English summary)

Rajagopal, Kumbakonam R. *see* **Darbha, Swaroop**, **2004g:93012**
Reddy, V. Venugopal (*with* Sharma, Vinod; Suma, M. B.) Providing QoS to TCP and real time connections in the internet. (English summary)
Reimann, Marc *see* **Doerner, Karl F. et al.**, **2004i:90195** *and* **Gronalt, Manfred et al.**
Resnick, Sidney I. *see* **Maulik, Krishanu**, **2004a:90011** *and* **2004g:60063**
Rodellar, José *see* **Bakule, Lubomír et al.**, (**2004h:00015**)
Rossell i Garriga, Josep Maria *see* **Bakule, Lubomír et al.**, (**2004h:00015**)
(Sambracos, E.) *see* **New technologies in transportation systems**
Sanguineti, M. *see* **Serra Cassano, Francesco et al.**, **2004k:90085**
Schulz, Andreas S. (*with* Stier Moses, Nicolás) On the performance of user equilibria in traffic networks. (*see* **2004a:68002**)
Scrimali, Laura Transportation networks with capacity constraints. (English summary) **2004k:90013**
Serra Cassano, Francesco (*with* Sanguineti, M.; Zoppoli, R.) The extended Ritz method in stochastic functional optimization: an example of dynamic routing in traffic networks. (English summary) **2004k:90085**
Sharma, Vinod *see* **Reddy, V. Venugopal et al.**
(Siskos, Y.) *see* **New technologies in transportation systems**
Stier Moses, Nicolás *see* **Schulz, Andreas S.**, (**2004a:68002**)
Suma, M. B. *see* **Reddy, V. Venugopal et al.**
Taale, Henk *see* **van Zuylen, Henk**, (**2004i:00010**)
Tenreiro Machado, J. A. *see* **Figueiredo, Lino et al.**
Topaloglu, Huseyin *see* **Powell, Warren B.**
van Uitert, Miranda *see* **Borst, S. C. et al.**, **2004d:60233**
Ukovich, Walter *see* **Castelli, Lorenzo et al.**
Villani, Cédric ★ Topics in optimal transportation. **2004e:90003**
Waldeer, K. T. Numerical investigation of a mesoscopic vehicular traffic flow model based on a stochastic acceleration process. (English summary)
Watanabe, Makoto S. Dynamical behavior of a two-dimensional cellular automaton with signal processing. II. Effect of signal period. (English summary)
Young, Gilbert H. (*with* Chan, Chi-Lok) Single-vehicle scheduling with time window constraints. (English summary)
Zeevi, Assaf (*with* Glynn, Peter W.) Estimating tail decay for stationary sequences via extreme values. (English summary) **2004m:62178**
Zhao, Hui-jiang *see* **Klingenberg, Christian et al.**, **2004d:35155**
Zimmermann, Uwe T. (*with* Lindner, T.) Train schedule optimization in public rail transport. (English summary) (*see* **2004d:00011**)
Zoppoli, R. *see* **Serra Cassano, Francesco et al.**, **2004k:90085**
van Zuylen, Henk (*with* Taale, Henk) Bilevel optimization: anticipatory dynamic traffic management. (*see* **2004i:00010**)

Items listed otherwise than by author

Lecture Notes in Economics and Mathematical Systems *see* **Daganzo, Carlos F.**, **2004b:90003**
New technologies in transportation systems ★ New technologies in transportation systems.
Traffic and transportation systems analysis ★ Traffic and transportation systems analysis.

90B22 Queues and service [see also 60K25, 68M20]

Abu-Dayyeh, Walid A. *see* **Madan, Kailash C. et al.**, **2004f:90025** *and* **2004g:90026**
Akinsete, Alfred Non-systematic tandem queue with withdrawal. (English summary)
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Fujisawa, Katsuki *see* **Yamashita, Makoto et al.**, **2004g:90029**
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Kim, Yong J. (*with* Mannino, Michael V.) Optimal incentive-compatible pricing for $M/G/1$ queues. (English summary) **2004h:90010**
Kim, Young Hwa *see* **Lee, Yutae et al.**, **2004i:90020**
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Pestien, Victor *see* **Daduna, Hans et al., 2004g:90022**

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Sarhan, Ammar M. *see* **Tadj, Lotfi**

Scheller-Wolf, Alan Necessary and sufficient conditions for delay moments in FIFO multiserver queues with an application comparing s slow servers with one fast one. (English summary) **2004g:90028**

Schlegel, Sabine *see* **Boxma, Onno J. et al., 2004b:90022**

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Shekhar, Chandra *see* **Jain, Madhu et al., 2004k:90023**

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Smith, J. MacGregor *see* **Daskalaki, Sophia**

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Jelenković, Predrag (*with* Momčilović, Petar) Large deviation analysis of subexponential waiting times in a processor-sharing queue. (English summary) **2004g:60124**

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Kim, Bara *see* **Choi, Sung Ho et al., 2004b:60205** *and* **Choi, Bong Dae et al., 2004m:60200**

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Kurtulush, M. *see* **Anisimov, Vladimir V., 2004b:60214**

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Li, Wei[15] *see* **Yuan, Xueming, 2004d:60245**

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Marthaler, D. *see* **Armbruster, Dieter et al., 2004m:90061**

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Mauw, Sjouke *see* **Borst, S. C. et al., 2004f:90062**

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Mederer, Michael Transient solutions of Markov processes and generalized continued fractions. (English summary) **2004a:60138**

Medhi, J. ★ Stochastic models in queueing theory. **2004e:60002**

van der Mei, R. D. *see* **Olsen, Tava Lennon, 2004a:60153**

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Mizher, Walced K. *see* **Ali, Al-Dahoud**

Momčilović, Petar *see* **Jelenković, Predrag, 2004g:60124**

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Pinotsi, Dimitra (*with* Zazanis, Michael A.) Stability conditions for gated $M/G/\infty$ queues. (English summary) **2004j:60192**

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Ramaswami, V. *see* **Ahn, Soohan, 2004m:60196**

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Reiman, Martin I. *see* **Ramanan, Kavita, 2004b:60220**

Richa, Andréa W. *see* **Mitzenmacher, Michael et al., 2004c:68171**

Righter, Rhonda *see* **Liu, Zhen**[1]

Ringhofer, Christian *see* **Armbruster, Dieter et al., 2004m:90061**

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Shwartz, Adam *see* **Atar, Rami et al., 2004h:60137**

Simonyan, È. A. *see* **Danielyan, È. A.**

Sitaraman, Ramesh *see* **Mitzenmacher, Michael et al., 2004c:68171**

van der Sluis, Erik *see* **van Dijk, Nico M., 2004a:90009**

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Soma, Takako *see* **Oliveira, Suely et al., 2004m:90186**

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Srinivasan, B. *see* **Kalyanaraman, R., 2004j:60188**

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Suri, Rajan *see* **Krishnamurthy, Ananth et al.**
Tadj, Chakib *see* **Tadj, Lotfi, 2004m:60214**
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Takine, Tetsuya *see* **Inoue, Dai, 2004d:60239**
Talim, Jérôme *see* **Srinivasan, Rengarajan et al.**
Teh, Yih-Choung (*with* Ward, Amy R.) Critical thresholds for dynamic routing in queueing networks. (English summary) **2004j:60194**
Tian, Naishuo *see* **Zhang, Zhe George, 2004i:60145**
Tibi, Danielle *see* **Fricker, Christine et al., 2004a:60144**
van Uitert, Miranda *see* **Borst, S. C. et al., 2004d:60233**
Vande Vate, John H. *see* **Dai, Jian Gang et al., 2004m:60195**
Vernon, Mary *see* **Krishnamurthy, Ananth et al.**
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Walsh, Cormac Worst case traffic from regulated sources. (English summary) **2004i:60146**
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Ward, Amy R. (*with* Bambos, Nicholas) On stability of queueing networks with job deadlines. (English summary) **2004c:60262**
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Wee, In-Suk *see* **Choi, Bong Dae et al., 2004m:60200**
Williams, Ruth J. *see* **Puha, Amber L., 2004m:60211**
Wolff, Ronald W. (*with* Wang, Chia-Li) Idle period approximations and bounds for the $GI/G/1$ queue. (English summary) **2004d:60244**
— *see also* **Wan, Yat-Wah, 2004j:90036**
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Xue, Jun-gong (*with* Alfa, Attahiru Sule) Accurate bounds for the asymptotic constant in a statistical multiplexer with homogeneous generalized binary Markov sources. (English summary) **2004i:68019**
(Yang, Wen-Dwo) *see* **Chung, Kun-Jen**
Yao, David D. *see* **Chang, Cheng-Shang et al., 2004f:60055**
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90B25 Reliability, availability, maintenance, inspection [see also 60K10, 62N05]

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Chan, Chi Kin (*with* Kingsman, Brian G.; Wong, Heung) Determining when to update the weights in combined forecasts for product demand—an application of the CUSUM technique. (English summary)
Chang, Chi-Chang *see* **Huang, Yeu-Shiang**
Chekuri, Chandra (*with* Gupta, Anupam; Kumar, Amit[2]; Naor, Joseph; Raz, Danny) Building edge-failure resilient networks. (English summary)
Chen, Chung-Ho Economic design of Dodge-Romig sampling plans under Taguchi's quality loss function. (English summary) **2004d:62028**
Chen, Jianwei (*with* Chou, Winlin; Wu, Hulin; Zhou, Haibo) Designing acceptance sampling schemes for life testing with mixed censoring. (English summary)
Chen, Wen-Jinn *see* **Liao, Ching-Jong**
Chiang, Chi Optimal replenishment for a periodic review inventory system with two supply modes. (English summary) **2004c:90001**
Chiu, Singa Wang (*with* Chiu, Yuanshyi Peter) An economic production quantity model with the rework process of repairable defective items. (English summary)
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Chiu, Yuanshyi Peter (*with* Chiu, Singa Wang) A finite production model with random defective rate and shortages allowed and backordered. (English summary)
— *see also* **Chiu, Singa Wang**
Chou, Winlin *see* **Chen, Jianwei et al.**
Christer, A. H. *see* **Jia, Xisheng, 2004f:62187**
Cooke, Roger Marvin *see* **Bunea, Cornel et al., 2004k:62228**
Deng, Keng *see* **Ackleh, Azmy S. et al., 2004b:35209**
Di Crescenzo, Antonio (*with* Longobardi, Maria) A measure of discrimination between past lifetime distributions. (English summary) **2004m:62213**
Dinwoodie, I. H. (*with* Mosteig, Edward) Statistical inference for internal network reliability with spatial dependence. (English summary) **2004m:62056**
Dohmen, Klaus Improved inclusion-exclusion identities and Bonferroni inequalities with reliability applications. (English summary) **2004b:05024**
Drezner, Zvi *see* **Berman, Oded et al., 2004d:60232**
Dshalalow, Jewgeni H. *see* **Kim, Song-Kyoo, 2004e:60150**
Duchesne, Thierry (*with* Rosenthal, Jeffrey S.) On the collapsibility of lifetime regression models. (English summary) **2004d:62347**
Franz, Jürgen On repair models and estimators of wearout limits. (English summary) **2004b:62229**
Freixas, Josep (*with* Puente, María Albina) Reliability importance measures of the components in a system based on semivalues and probabilistic values. (English summary) **2004c:91013**
From, Steven G. (*with* Li, Linxiong) Nonparametric estimation of some quantities of interest from renewal theory. (English summary)
Fromion, Vincent *see* **Rossignol, L. et al., 2004k:93135**
Gamarnik, David Stability of adaptive and nonadaptive packet routing policies in adversarial queueing networks. (English summary) **2004b:68019**
Geni, Gupur Well-posedness of a reliability model. (English and Chinese summaries) **2004j:35043**
Giri, B. C. (*with* Moon, Ilkyeong; Yun, W. Y.) Scheduling economic lot sizes in deteriorating production systems. (English summary) **2004f:90048**
Goh, T. N. *see* **Tang, X. Y. et al., 2004d:62373**
González, I. M. (*with* Viles, E.) Semi-economic design of $\overline{X}$-control charts assuming gamma distribution. (English summary) **2004d:62348**
Guinand, Frédéric *see* **Moukrim, Aziz et al., 2004g:90047**
Gupta, Anupam *see* **Chekuri, Chandra et al.**
Gupta, P. N. (*with* Rankawat, Lalit) An inventory model for deteriorating items with replenishment dependent upon demand and inventory level. (English summary)
Gupta, Praveen (*with* Saxena, Manoj) Stochastic behaviour of a system with two independent protection devices. (English summary)
Gupta, Ramesh C. (*with* Bradley, David M.) Representing the mean residual life in terms of the failure rate. (English summary) **2004e:62181**
Hahn, Kyu Hun (*with* Hwang, Hark; Shinn, Seong Whan) A returns policy for distribution channel coordination of perishable items. (English summary) **2004g:90009**
Hartman, Joseph C. *see* **Scarf, Philip et al.**
Hayya, Jack *see* **Li, Zhaolin et al., 2004j:90013**
Ho, Linda Lee One-sided control charts for non-normal processes. (English summary) **2004d:62350**
Hohjo, Hitoshi (*with* Teraoka, Yoshinobu) The replenishment policy for an inventory system with Poisson arrival demands. (English summary) **2004d:90002**
Hollander, Myles (*with* Sethuraman, Jayaram) Nonparametric inference for repair models. (English summary)
Høyland, Arnljot *see* **Rausand, Marvin, 2004k:62006**
Huang, Yeu-Shiang (*with* Chang, Chi-Chang) A study of defuzzification with experts' knowledge for deteriorating repairable systems. (English summary)
Hwang, Hark *see* **Hahn, Kyu Hun et al., 2004g:90009**
Ishii, Naohiro *see* **Kimura, Mitsutaka et al., 2004k:90017**
Janssens, Gerrit K. *see* **Sörensen, Kenneth**
Jia, Xisheng (*with* Christer, A. H.) A periodic testing model for a preparedness system with a defective state. (English summary) **2004f:62187**
Kemp, Kenneth W. ★ The efficient use of quality control data. **2004h:62002**
Kharoufeh, Jeffrey P. Explicit results for wear processes in a Markovian environment. (English summary) **2004e:60163**
— Erratum to: "Explicit results for wear processes in a Markovian environment" [Oper. Res. Lett. **31** (2003), no. 3, 237–244].
Kiesmüller, Gudrun Most profitable sampling policies. (English summary) **2004d:62032**
Kim, Song-Kyoo (*with* Dshalalow, Jewgeni H.) A versatile stochastic maintenance model with reserve and super-reserve machines. (English summary) **2004e:60150**
Kimura, Mitsutaka (*with* Yasui, Kazumi; Nakagawa, Toshio; Ishii, Naohiro) Optimal checkpointing interval of a communication system with rollback recovery. (English summary) **2004k:90017**
Kingsman, Brian G. *see* **Chan, Chi Kin et al.**
Kokolakis, George *see* **Papageorgiou, Effie, 2004k:90047**
Kortsarz, Guy (*with* Nutov, Zeev) Approximating node connectivity problems via set covers. (English summary) **2004e:05185**
Krass, Dmitry *see* **Berman, Oded et al., 2004e:60156**
Kumar, Amit[2] *see* **Chekuri, Chandra et al.**
Lam, Yeh (*with* Tse, Yee Kit) Optimal maintenance model for a multistate deteriorating system: a geometric process approach. (English summary) **2004h:90029**
Lee, Chun Chen Integrated economic ordering policy for vendor and buyer with deteriorating items. (English summary)
Levitin, Gregory *see* **Lisnianski, Anatoly, 2004e:62006**
Li, Haijun (*with* Shaked, Moshe) Imperfect repair models with preventive maintenance. (English summary) **2004i:60128**
Li, Linxiong *see* **From, Steven G.**

Li, Wei[15] *see* **Ackleh, Azmy S. et al., 2004b:35209**
Li, Zhaolin (*with* Xu, Susan H.; Hayya, Jack) A periodic-review inventory system with supply interruptions. (English summary) **2004j:90013**
Liao, Ching-Jong (*with* Chen, Wen-Jinn) Scheduling under machine breakdown in a continuous process industry. (English summary)
Lin, Daming (*with* Makis, Viliam) On-line parameter estimation for a failure-prone system subject to condition monitoring. (English summary)
Lindqvist, Bo Henry *see* **Bunea, Cornel et al., 2004k:62228**
Lisnianski, Anatoly (*with* Levitin, Gregory) ★ Multi-state system reliability. **2004e:62006**
Liu, Baoding *see* **Zhao, Ruiqing**
Longobardi, Maria *see* **Di Crescenzo, Antonio, 2004m:62213**
Luceño, Alberto Dead-band adjustment schemes for on-line feedback quality control. (*see* **2004h:62006**)
Makis, Viliam *see* **Lin, Daming**
Moon, Ilkyeong *see* **Giri, B. C. et al., 2004f:90048**
Mosteig, Edward *see* **Dinwoodie, I. H., 2004m:62056**
Moukrim, Aziz (*with* Sanlaville, Eric; Guinand, Frédéric) Parallel machine scheduling with uncertain communication delays. (English summary) **2004g:90047**
Moustafa, Magdi S. Availability and reliability of K-to-L-out-of-N: G systems with M failure modes. (English summary) **2004d:62352**
Murovec, Boštjan (*with* Šuhel, Peter) A repairing technique for the local search of the job-shop problem. (English summary)
Nakagawa, Toshio *see* **Kimura, Mitsutaka et al., 2004k:90017**
Naor, Joseph *see* **Chekuri, Chandra et al.**
Newby, Martin *see* **Scarf, Philip et al.**
Nikoukhah, Ramine *see* **Campbell, Stephen L., 2004m:93032**
Nutov, Zeev *see* **Kortsarz, Guy, 2004e:05185**
Özekici, Süleyman (*with* Soyer, Refik) Reliability modeling and analysis in random environments. (English summary)
Papageorgiou, Effie (*with* Kokolakis, George) A two-unit parallel system supported by $(n-2)$ standbys with general and non-identical lifetimes. (English summary) **2004k:90047**
Pascu, Mihai (*with* Văduva, Ion) Nonparametric estimation of the hazard rate: a survey. (English summary) **2004f:62103**
Perry, David *see* **Berman, Oded et al., 2004e:60156**
Puente, María Albina *see* **Freixas, Josep, 2004c:91013**
Rankawat, Lalit *see* **Gupta, P. N.**
Rausand, Marvin (*with* Høyland, Arnljot) ★ System reliability theory. **2004k:62006**
Raz, Danny *see* **Chekuri, Chandra et al.**
Rosenthal, Jeffrey S. *see* **Duchesne, Thierry, 2004d:62347**
Rossignol, L. (*with* Scorletti, Gérard; Fromion, Vincent) Filter design: a finite dimensional convex optimization approach. (English summary) **2004k:93135**
Samaniego, Francisco J. *see* **Boland, Philip J.**
Sankaran, P. G. (*with* Sunoj, S. M.) Identification of models using failure rate and mean residual life of doubly truncated random variables. (English summary) **2004k:62239**
Sanlaville, Eric *see* **Moukrim, Aziz et al., 2004g:90047**
Savits, Thomas H. Preservation of generalized bathtub-shaped functions. (English summary) **2004c:60244**
Saxena, Manoj *see* **Gupta, Praveen**
Scarf, Philip (*with* Hartman, Joseph C.; Newby, Martin) Editorial: Maintenance, replacement and reliability.
— *see also* **Conference: Modelling in Industrial Maintenance and Reliability**
Scorletti, Gérard *see* **Rossignol, L. et al., 2004k:93135**
Sethuraman, Jayaram *see* **Hollander, Myles**
Shaked, Moshe *see* **Li, Haijun, 2004i:60128**
Shinn, Seong Whan *see* **Hahn, Kyu Hun et al., 2004g:90009**
Sörensen, Kenneth (*with* Janssens, Gerrit K.) A Petri net model of a continuous flow transfer line with unreliable machines. (English summary)
Soyer, Refik *see* **Özekici, Süleyman**
Srivastava, Muni S. (*with* Wu, Yan Hong) Taguchi's approach to on-line control procedure. (English summary) (*see* **2004h:62006**)
Steele, John A. (*with* Székely, Gábor J.) Limiting survival functions of self-similar structures. (English summary) **2004k:62241**
Šuhel, Peter *see* **Murovec, Boštjan**
Sunoj, S. M. *see* **Sankaran, P. G., 2004k:62239**
Swift, Andrew W. Methods for assessing network reliability. (English summary)
Székely, Gábor J. *see* **Steele, John A., 2004k:62241**
Tahir, Mohamed Estimation of the failure rate in a partially accelerated life test: a sequential approach. (English summary) **2004c:62199**
Tang, Heng Yong *see* **Zhao, Chuan Li et al.**
Tang, X. Y. (*with* Xie, Min[1]; Goh, T. N.) A note on economic-statistical design of cumulative count of conforming chart. (English summary) **2004d:62373**
Teraoka, Yoshinobu *see* **Hohjo, Hitoshi, 2004d:90002**
Tokuno, Koichi (*with* Yamada, Shigeru) Markovian software reliability measurement with a geometrically decreasing perfect debugging rate. (English summary)
Tse, Yee Kit *see* **Lam, Yeh, 2004h:90029**
Văduva, Ion *see* **Pascu, Mihai, 2004f:62103**
Viles, E. *see* **González, I. M., 2004d:62348**
Wang, Fu Zhong[2] (*with* Yao, Bo; Zhang, Si Ying) Guaranteed cost reliable control with actuator failures. (Chinese. English and Chinese summaries)
(Wang, Wenbin) *see* **Conference: Modelling in Industrial Maintenance and Reliability**
Wang, Ying Qian Local most reliability of nearly regular complete bipartite graphs. (Chinese. English and Chinese summaries) **2004g:05143**
Wesolowsky, George O. *see* **Berman, Oded et al., 2004d:60232**
Wong, Heung *see* **Chan, Chi Kin et al.**
Wu, Hulin *see* **Chen, Jianwei et al.**
Wu, Yan Hong *see* **Srivastava, Muni S., (2004h:62006)**
Xie, Min[1] *see* **Tang, X. Y. et al., 2004d:62373**
Xu, Susan H. *see* **Li, Zhaolin et al., 2004j:90013**
Yamada, Shigeru *see* **Tokuno, Koichi**
Yang, Su-Fen Optimal processes control for a failure mechanism. (English summary) **2004h:62185**
Yao, Bo *see* **Wang, Fu Zhong[2] et al.**
Yasui, Kazumi *see* **Kimura, Mitsutaka et al., 2004k:90017**
Yun, W. Y. *see* **Giri, B. C. et al., 2004f:90048**
Zhang, Min-Yue Reliability of the work life and the natural life for the system. (English summary)
Zhang, Qing Ling *see* **Zhao, Chuan Li et al.**
Zhang, Si Ying *see* **Wang, Fu Zhong[2] et al.**
Zhao, Chuan Li (*with* Zhang, Qing Ling; Tang, Heng Yong) Scheduling problems under linear deterioration. (English and Chinese summaries)
Zhao, Ruiqing (*with* Liu, Baoding) Redundancy optimization problems with uncertainty of combining randomness and fuzziness. (English summary)
Zhou, Haibo *see* **Chen, Jianwei et al.**

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Modelling in Industrial Maintenance and Reliability ★ Fourth IMA International Conference on Modelling in Industrial Maintenance and Reliability.
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90B30 Production models

Agnetis, Alessandro (*with* Detti, Paolo; Meloni, Carlo) Process selection and sequencing in a two-agents production system. (English summary) **2004m:90036**
Altiok, Tayfur *see* **Gurgur, Cigdem Z.**
Álvarez, Francisco (*with* Cerda Tena, Emilio) Learning by doing in a T-period production planning: analytical solution. (English summary) **2004b:90034**
Amasaka, K. Proposal and implementation of the "science SQC" quality control principle. (English summary)
Baker, Rhoda (*with* Swartz, Christopher L. E.) Simultaneous solution strategies for inclusion of input saturation in the optimal design of dynamically operable plants. (English summary)
Ball, Michael O. (*with* Chen, Chien-Yu[2]; Zhao, Zhen-Ying) Material compatibility constraints for make-to-order production. (English summary) **2004g:90033**
Banker, Rajiv D. (*with* Chang, Hsihui; Cooper, William W.) A simulation study of DEA and parametric frontier models in the presence of heteroscedasticity. (English summary)
Bebbington, M. S. (*with* Lai, Chin-Diew; Govindaraju, Kondaswamy) Continuous sampling plans for Markov-dependent production processes under limited inspection capacity. (English summary)
Bogetoft, Peter (*with* Hougaard, Jens Leth) Super efficiency evaluations based on potential slack. (English summary)
Buzacott, John A. Modelling teams and workgroups in manufacturing. (English summary)
Çakanyıldırım, Metin (*with* Roundy, Robin O.; Wood, Samuel C.) Optimal machine capacity expansions with nested limitations under stochastic demand. (English summary) **2004k:90037**
Cao, Jin Hua *see* **Wang, Jin Ting et al., 2004d:90024**
Cattani, Kyle (*with* Ferrer, Geraldo; Gilland, Wendell) Simultaneous production of market-specific and global products: a two-stage stochastic program with additional demand after recourse. (English summary)
Celano, G. (*with* Costa, A.; Fichera, S.) An evolutionary algorithm for pure fuzzy flowshop scheduling problems. (English summary)
Cerda Tena, Emilio *see* **Álvarez, Francisco, 2004b:90034**
Chan, Chi Kin (*with* Kingsman, Brian G.; Wong, Heung) Determining when to update the weights in combined forecasts for product demand—an application of the CUSUM technique. (English summary)
Chandrasekaran, Ramaswamy *see* **Sriskandarajah, Chelliah et al.**
Chang, Hsihui *see* **Banker, Rajiv D. et al.**
Châtelet, Éric *see* **Yalaoui, Alice et al.**
Chaudhuri, K. S. *see* **Sana, S. et al.**
Chazal, Marie (*with* Jouini, Elyès; Tahraoui, Rabah) Production planning and inventories optimization with a general storage cost function. (English summary) **2004f:90031**
Chen, Chien-Yu[2] *see* **Ball, Michael O. et al., 2004g:90033**
Chen, Miao-sheng *see* **Lan, Chun-hsiung**
Chen, Ying-Chieh A series-type multistage production system with random demand. (English summary) **2004f:90032**
Chiang, Shu-Yin (*with* Kuo, C.-T.; Lim, J.-T.; Meerkov, Semyon M.) Improvability of assembly systems. I. Problem formulation and performance evaluation. (English summary)
— (*with* Kuo, C.-T.; Lim, J.-T.; Meerkov, Semyon M.) Improvability of assembly systems. II. Improvability indicators and case study. (English summary)
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Ching, Wai-Ki (*with* Fung, Eric S.; Ng, Michael K.) A multivariate Markov chain model for categorical data sequences and its applications in demand predictions. (English summary)
Chiu, Singa Wang (*with* Chiu, Yuanshyi Peter) An economic production quantity model with the rework process of repairable defective items. (English summary)
— (*with* Gong, Dah-Chuan) Determining the optimal lot size for the finite production model with an imperfect rework process of defective items. (English summary)
— *see also* **Chiu, Yuanshyi Peter**
Chiu, Yuanshyi Peter (*with* Chiu, Singa Wang) A finite production model with random defective rate and shortages allowed and backordered. (English summary)
— *see also* **Chiu, Singa Wang**
Chu, Chengbin *see* **Yalaoui, Alice et al.**
Cooper, William W. *see* **Banker, Rajiv D. et al.**
Costa, A. *see* **Celano, G. et al.**
Cromme, Ludwig J. (*with* Würll, Stephan) Modeling, simulation, and optimization of a production line. (English summary)

Dallery, Yves *see* **Karaesmen, Fikri et al.**
Dauzère-Pérès, Stéphane (*with* Lasserre, Jean Bernard) On the importance of sequencing decisions in production planning and scheduling. (English summary)
Dekker, Rommert *see* **Vlachos, Dimitrios**
Detti, Paolo *see* **Agnetis, Alessandro et al., 2004m:90036**
Diponegoro, Ahmad (*with* Sarker, Bhaba R.) Flow distance reduction for a multi-product flowline with sets of identical machines. (English summary) **2004a:90024**
Dobos, Imre (*with* Richter, Knut) A production/recycling model with stationary demand and return rates. (English summary) **2004d:90023**
Drobouchevitch, Inna *see* **Sriskandarajah, Chelliah et al.**
Ekşioğlu, Burak (*with* Migdalas, Athanasios; Pardalos, Panos M.) Heuristic approaches to production-inventory-distribution problems in supply chains. (English summary) (*see* **2004b:90008**)
Ferrer, Geraldo *see* **Cattani, Kyle et al.**
Fichera, S. *see* **Celano, G. et al.**
Freling, Richard (*with* Romeijn, H. Edwin; Romero-Morales, Dolores; Wagelmans, Albert P. M.) A branch-and-price algorithm for the multiperiod single-sourcing problem. (English summary) **2004i:90028**
Fung, Eric S. *see* **Ching, Wai-Ki et al.**
Fung, Richard Y. K. *see* **Tang, Jiafu et al.**
Gershwin, Stanley B. *see* **Tan, Barış**
Gilland, Wendell *see* **Cattani, Kyle et al.**
Gong, Dah-Chuan *see* **Chiu, Singa Wang**
Govindaraju, Kondaswamy *see* **Bebbington, M. S. et al.**
Goyal, S. K. *see* **Sana, S. et al.**
Gurgur, Cigdem Z. (*with* Altiok, Tayfur) Approximate analysis of decentralized, multi-stage, pull-type production/inventory systems. (English summary)
Helbing, Dirk *see* **Nagatani, Takashi**
Hohjo, Hitoshi *see* **Teraoka, Yoshinobu**
Hougaard, Jens Leth *see* **Bogetoft, Peter**
Hsu, Hsi-Mei (*with* Wang, Wen-Pai) Dynamic programming for delayed product differentiation. (English summary)
Hu, Jian-Qiang (*with* Vakili, Pirooz; Huang, Lei[1]) Capacity and production management in a single product manufacturing system. (English summary)
Huang, Lei[1] *see* **Hu, Jian-Qiang et al.**
Iaprasert, Wipanan *see* **Nagarur, Nagendra N. et al.**
Ismail-Yahaya, Amir *see* **Maria, Aniela et al.**
Jahanshahloo, Gholam Reza (*with* Soleimani-Damaneh, Majid) Estimating returns to scale in data envelopment analysis: a new procedure. (English summary)
Janssens, Gerrit K. *see* **Sörensen, Kenneth**
Jia, Jian-Yuan *see* **Li, Zhi-Wu**
Jouini, Elyès *see* **Chazal, Marie et al., 2004f:90031**
Karaesmen, Fikri (*with* Liberopoulos, George; Dallery, Yves) The value of advance demand information in production/inventory systems. (English summary)
Kim, Yeo Keun (*with* Park, Kitae; Ko, Jesuk) A symbiotic evolutionary algorithm for the integration of process planning and job shop scheduling. (English summary)
Kingsman, Brian G. *see* **Chan, Chi Kin et al.**
Ko, Jesuk *see* **Kim, Yeo Keun et al.**
Kodek, Dušan M. (*with* Krisper, Marjan) An algorithm for computing the optimal cycle time of a printed circuit board assembly line. (English summary) **2004g:90034**
Korhonen, Pekka J. (*with* Syrjänen, Mikko J.) Evaluation of cost efficiency in Finnish electricity distribution. (English summary)
Kraus, Ursula G. (*with* Yano, Candace Arai) Product line selection and pricing under a share-of-surplus choice model. (English summary)
Krisper, Marjan *see* **Kodek, Dušan M., 2004g:90034**
Kuo, C.-T. *see* **Chiang, Shu-Yin et al.**
Lai, Chin-Diew *see* **Bebbington, M. S. et al.**
Lan, Chun-hsiung (*with* Chen, Miao-sheng) Dynamic production control for determined quantity and deadline. (English summary)
Lasserre, Jean Bernard *see* **Dauzère-Pérès, Stéphane**
Lau, Hon-Shiang *see* **Zhao, Xiaobo et al.**
Lee, Chung-Yee *see* **Vairaktarakis, George L., 2004j:90035**
Lewis, Harold W., III *see* **Yokoyama, Masao**
Li, Chu Lin *see* **Xue, Minggao**
Li, Chung-Lun (*with* Xiao, Wen-Qiang) Lot streaming with supplier-manufacturer coordination. (English summary) **2004m:90037**
Li, Zhi-Wu (*with* Jia, Jian-Yuan) A fairness and liveness control policy of Petri net models for automated manufacturing systems. (English and Chinese summaries)
Liberopoulos, George *see* **Karaesmen, Fikri et al.**
Lim, J.-T. *see* **Chiang, Shu-Yin et al.**
Liu, Bin[5] *see* **Wang, Jin Ting et al., 2004d:90024**
Lotov, A. V. Computer visualization of the production possibility set in the framework of the analysis of the efficiency of production units. (Russian)
Lu, Yingdong (*with* Song, Jing-Sheng; Yao, David D.) Order fill rate, leadtime variability, and advance demand information in an assemble-to-order system. (English summary) **2004a:90025**
Maria, Aniela (*with* Mattson, Christopher A.; Ismail-Yahaya, Amir; Messac, Achille) Linear physical programming for production planning optimization. (English summary)
Mattson, Christopher A. *see* **Maria, Aniela et al.**
Mednitskiĭ, V. G. (*with* Mednitskiĭ, Yu. V.) The use of the decomposition method for computing extremal states of production systems with a multibranch structure of production output consistent with balanced growth conditions. (Russian. Russian summary)
Mednitskiĭ, Yu. V. *see* **Mednitskiĭ, V. G.**
Meerkov, Semyon M. *see* **Chiang, Shu-Yin et al.**
Meloni, Carlo *see* **Agnetis, Alessandro et al., 2004m:90036**
Messac, Achille *see* **Maria, Aniela et al.**
Migdalas, Athanasios *see* **Ekşioğlu, Burak et al., (2004b:90008)**
Miller, Andrew J. (*with* Nemhauser, George L.; Savelsbergh, Martin W. P.) Facets, algorithms, and polyhedral characterizations for a multi-item production planning model with setup times. (English summary) **2004m:90038**
— (*with* Nemhauser, George L.; Savelsbergh, Martin W. P.) A multi-item production planning model with setup times: algorithms, reformulations, and polyhedral characterizations for a special case. (English summary) **2004e:90035**
Missbauer, Hubert Optimal lower bounds on the contribution margin in the case of stochastic order arrival. (English summary) **2004i:90029**
Nagarur, Nagendra N. (*with* Iaprasert, Wipanan; Techanitisawad, Anulark) A coordinated planning model with demand uncertainty. (English summary)
Nagatani, Takashi (*with* Helbing, Dirk) Stability analysis and stabilization strategies for linear supply chains. (English summary)
— Dynamical transition in random supply chain. (English summary)
Nemhauser, George L. *see* **Miller, Andrew J. et al., 2004e:90035** *and* **2004m:90038**
Ng, Michael K. *see* **Ching, Wai-Ki et al.**
Norman, Bryan A. *see* **Smith, Alice E., (2004f:90008)**
Nowak, Matthias P. *see* **Schultz, Rüdiger et al., (2004d:00011)**
Nürnberg, Robert *see* **Schultz, Rüdiger et al., (2004d:00011)**
Ohno, Katsuhisa *see* **Zhao, Xiaobo et al.**
Papadopoulos, Chrissoleon T. *see* **Spinellis, Diomidis D.**
Pardalos, Panos M. *see* **Ekşioğlu, Burak et al., (2004b:90008)**
Park, Kitae *see* **Kim, Yeo Keun et al.**
Qu, Chaochun (*with* Wang, Ping[4]) Mathematical model and optimization in global production problems. (English summary)
Richter, Knut *see* **Dobos, Imre, 2004d:90023**
Romeijn, H. Edwin *see* **Freling, Richard et al., 2004i:90028**
Romero-Morales, Dolores *see* **Freling, Richard et al., 2004i:90028**
Römisch, Werner *see* **Schultz, Rüdiger et al., (2004d:00011)**
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Wong, Heung *see* **Chan, Chi Kin et al.**
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Morse, A. Stephen *see* **Jadbabaie, Ali et al., 2004m:82095**
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Lecture Notes in Economics and Mathematical Systems *see* **Daganzo, Carlos F., 2004b:90003**

Stochastic models of production-inventory systems. Part I ★ Stochastic models of production-inventory systems. Part I.

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90B35 Scheduling theory, deterministic [see also 68M20]

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Dell'Amico, Mauro (*with* Martello, Silvano) Bounds for the cardinality constrained $P\|C_{\max}$ problem. (English summary) **2004f:90047**
Dell'Olmo, Paolo *see* **Błażewicz, Jacek et al.**, **2004f:90035**; **Confessore, Giuseppe et al.**, **2004k:90041** *and* **Caramia, Massimiliano**
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Deng, Xiao-Tie (*with* Poon, Chung Keung; Zhang, Yu Zhong[1]) Approximation algorithms in batch processing. (English summary) **2004i:90037**
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Do, Van Ha *see* **Oğuz, Ceyda et al.**, **2004g:90048**
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Dror, Moshe *see* **Leung, Joseph Y.-T. et al., 2004e:90041**
Drozdowski, Maciej New applications of the Muntz and Coffman algorithm. (English summary) **2004g:90040**
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Durand, Sylvain J. *see* **de Werra, Dominique et al., 2004e:90047**
Dürr, Christoph *see* **Baptiste, Philippe et al., 2004j:90037**
Edmonds, Jeff (*with* Pruhs, Kirk R.) Multicast pull scheduling: when fairness is fine. (English summary) **2004i:90038**
Eglese, Richard W. *see* **Letchford, Adam N. et al., 2004i:90049**
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Fink, Andreas (*with* Voß, Stefan) Solving the continuous flow-shop scheduling problem by metaheuristics. (English summary)
Finke, Gerd *see* **Brauner, Nadia et al., 2004d:90027**
Fleischer, Rudolf (*with* Wahl, Michaela) On-line scheduling revisited. (English summary)
Fleszar, Krzysztof (*with* Hindi, Khalil S.) Solving the resource-constrained project scheduling problem by a variable neighbourhood search. (English summary)
Fores, Sarah *see* **Wren, Anthony et al.**
Fowler, John W. *see* **Mason, Scott J. et al., 2004e:90042**
Framinan, Jose M. *see* **Schuster, Christoph J.**
Freeman, Len *see* **Tabirca, T. et al., 2004h:90027**
Freling, Richard (*with* Huisman, Dennis; Wagelmans, Albert P. M.) Models and algorithms for integration of vehicle and crew scheduling. (English summary)
Freund, Ari *see* **Bar-Noy, Amotz et al.**
Fujii, Sadao *see* **Watanabe, Michiko et al.**
Fung, Stanley P. Y. *see* **Chin, Francis Y. L., 2004f:90044**
Fung, Y. F. *see* **Oğuz, Ceyda et al.**
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Gabow, Harold N. (*with* Kohno, Tadayoshi) A network-flow-based scheduler: design, performance history and experimental analysis. (English summary)
Gamarnik, David *see* **Bertsimas, Dimitris et al., 2004f:90034**
Gambardella, Luca Maria *see* **Mastrolilli, Monaldo**
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Gaur, Daya Ram (*with* Gupta, Arvind; Krishnamurti, Ramesh) A $\frac{5}{3}$-approximation algorithm for scheduling vehicles on a path with release and handling times. (English summary) **2004b:90039**
Ghosh, Jay B. *see* **Akturk, M. Selim et al.**
Giordani, Stefano *see* **Confessore, Giuseppe et al., 2004k:90041**
Giri, B. C. (*with* Moon, Ilkyeong; Yun, W. Y.) Scheduling economic lot sizes in deteriorating production systems. (English summary) **2004f:90048**
Gladkiĭ, A. A. (*with* Shafranskiĭ, Ya. M.; Strusevich, V. A.) Flow shop scheduling problems under machine-dependent precedence constraints. (English summary)
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Goldwasser, Michael H. Patience is a virtue: the effect of slack on competitiveness for admission control. (English summary) **2004m:90042**
Grabowski, Józef (*with* Wodecki, Mieczyslaw) A very fast tabu search algorithm for the permutation flow shop problem with makespan criterion. (English summary)
Grosso, Andrea (*with* Della Croce, Federico; Tadei, R.) An enhanced dynasearch neighborhood for the single-machine total weighted tardiness scheduling problem. (English summary) **2004i:90039**
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Guinand, Frédéric *see* **Moukrim, Aziz et al., 2004g:90047**
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Gunes, Evrim D. *see* **Akturk, M. Selim et al.**
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Gupta, Rajesh *see* **Irani, Sandy et al., (2004a:68002)**
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Hama, Katsumi *see* **Watanabe, Michiko et al.**
Hamdan, May F. *see* **El-Kassar, A. N.**
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He, Yong[1] (*with* Jiang, Yiwei) Optimal algorithms for semi-online preemptive scheduling problems on two uniform machines. (English summary) **2004k:90042**
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Heitmann, Silvia *see* **Brucker, Peter et al., 2004f:90039** *and* **2004i:90034**
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Henzinger, Monika R. (*with* Leonardi, Stefano) Scheduling multicasts on unit-capacity trees and meshes. (English summary) **2004f:90049**
Hepner, Clint (*with* Stein, Clifford) Minimizing makespan for the lazy bureaucrat problem. (English summary)
Herrero, Jose *see* **Montana, David et al.**
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— *see also* **Vanhoucke, Mario et al., 2004b:90047**
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Hindi, Khalil S. *see* **Fleszar, Krzysztof**
Homaifar, Abdollah *see* **Ahmadzadeh, Ali et al., (2004k:90008)**
Hoogeveen, Johannes Adzer *see* **van den Akker, Janna Magrietje et al., 2004a:90026**; **Hou, Sixiang, 2004a:90030**; **Shakhlevich, N. V. et al.** *and* **Sethi, Suresh P. et al.**
Hou, Sixiang (*with* Hoogeveen, Johannes Adzer) The three-machine proportionate flow shop problem with unequal machine speeds. (English summary) **2004a:90030**
Housos, E. *see* **Daskalaki, Sophia et al.**
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Huisman, Dennis *see* **Freling, Richard et al.**
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Hunsucker, John L. *see* **Thornton, Henry W., 2004g:90051**
Hurink, Johann *see* **Brucker, Peter et al., 2004f:90039**; **2004h:90023** *and* **2004i:90034**
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Iyer, Srikanth K. (*with* Saxena, Barkha) Improved genetic algorithm for the permutation flowshop scheduling problem. (English summary) **2004m:90044**
Jackson, Peter L. *see* **Huh, Woonghee Tim et al., 2004e:90039**
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Jain, Kamal (*with* Măndoiu, Ion; Vazirani, Vijay V.; Williamson, David P.) A primal-dual schema based approximation algorithm for the element connectivity problem. (English summary) **2004h:90024**
Jain, Madhu *N* policy for redundant repairable system with additional repairmen. (English summary)
Janakiraman, Ganesh *see* **Huh, Woonghee Tim et al., 2004e:90039**
Janiak, Adam *see* **Cheng, T. C. Edwin et al., 2004f:90043**; **Oğuz, Ceyda et al., 2004g:90048** *and* **Iwanowski, Daniel**
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Jawor, Wojciech *see* **Baptiste, Philippe et al., 2004j:90037**
Jean-Marie, Alain *see* **Migge, Jörn et al., 2004f:90051**

Jedrzejowicz, Joanna (*with* Jędrzejowicz, Piotr) PLA-based permutation-scheduling. (English summary)
Jędrzejowicz, Piotr *see* **Jedrzejowicz, Joanna**
Jensen, Mikkel T. (*with* Khouja, Moutaz) An optimal polynomial time algorithm for the common cycle economic lot and delivery scheduling problem. (English summary)
Jiang, Houyuan *see* **Ernst, Andreas T. et al.**
Jiang, Yiwei *see* **He, Yong[1], 2004k:90042**
Johnson, Ellis L. *see* **Waterer, H. et al., 2004f:90060**
Józefowska, Joanna (*with* Mika, Marek; Różycki, Rafał; Waligóra, Grzegorz; Węglarz, Jan) A heuristic approach to allocating the continuous resource in discrete-continuous scheduling problems to minimize the makespan. (English summary) **2004i:90041**
— (*with* Waligóra, Grzegorz; Węglarz, Jan) Probabilistic tabu search for makespan minimization discrete-continuous scheduling. (English summary) **2004k:90043**
Kaio, Naoto *see* **Iwamoto, K. et al.**
Kalir, Adar A. (*with* Sarin, Subhash C.) Constructing near optimal schedules for the flow-shop lot streaming problem with sublot-attached setups. (English summary) **2004i:90042**
Kalyanasundaram, Bala (*with* Pruhs, Kirk R.) Dynamic spectrum allocation: the impotency of duration notification. (English summary)
— (*with* Pruhs, Kirk R.; Velauthapillai, Mahendran) Scheduling broadcasts in wireless networks. (English summary) **2004i:90043**
Kamburowski, Jerzy Non-bottleneck machines in three-machine flow shops. (English summary)
Kaminsky, Philip *see* **Bülbül, Kerem et al., 2004k:90039**
Kaplansky, Eliezer *see* **Meisels, Amnon**
Karabatı, Selçuk (*with* Sayın, Serpil) Assembly line balancing in a mixed-model sequencing environment with synchronous transfers. (English summary)
— *see also* **Akkan, Can**
Karuno, Yoshiyuki (*with* Nagamochi, Hiroshi) 2-approximation algorithms for the multi-vehicle scheduling problem on a path with release and handling times. (English summary) **2004e:90040**
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Kaspi, Moshe (*with* Shabtay, Dvir) Convex resource allocation for minimizing the makespan in a single machine with job release dates. (English summary)
Kats, Vladimir (*with* Levner, E. V.) Cyclic scheduling in a robotic production line. (English summary)
Kawakami, Takashi *see* **Watanabe, Michiko et al.**
Kedad-Sidhoum, Safia *see* **Sourd, Francis, 2004i:90057**
Kellerer, Hans[2] (*with* Strusevich, V. A.) Scheduling problems for parallel dedicated machines under multiple resource constraints. (English summary) **2004i:90044**
— (*with* Strusevich, V. A.) Scheduling parallel dedicated machines under a single non-shared resource. (English summary) **2004b:90041**
Kenyon, Claire *see* **Afrati, Foto et al.**
Khabibullin, R. F. *see* **Gumerov, A. M., (2004j:00010)**
Khouja, Moutaz *see* **Jensen, Mikkel T.**
Kim, Daecheol *see* **Ventura, José A., 2004g:90052**
Kim, Hyoung Joong (*with* Mani, V.) Divisible load scheduling in single-level tree networks: optimal sequencing and arrangement in the nonblocking mode of communication. (English summary) **2004i:90045**
Kim, Young Hwan *see* **Sung, Chang Sup, 2004b:90046**
Kimbrel, Tracy (*with* Saia, Jared) On-line and off-line preemptive two-machine job shop scheduling. (English summary)
Kinoshita, Masahiro *see* **Watanabe, Michiko et al.**
Kiritsis, Dimitris *see* **Neuendorf, Klaus-Peter et al., 2004i:90053**
Kis, Tamás On the complexity of non-preemptive shop scheduling with two jobs. (English summary) **2004i:90046**
— (*with* Hertz, Alain) A lower bound for the job insertion problem. (English summary) **2004b:90042**
— Job-shop scheduling with processing alternatives. (English summary)
— On the complexity of the car sequencing problem. (English summary)
Knust, Sigrid *see* **Brucker, Peter, 2004b:90035** *and* **2004h:90022**
de Kock, E. A. (*with* Aarts, E. H. L.; Verstraten, A. J. E.) Video signal processor scheduling. (English summary) **2004i:90047**
Kogan, Konstantin Scheduling parallel machines by the dynamic newsboy problem. (English summary) **2004m:90046**
Kohno, Tadayoshi *see* **Gabow, Harold N.**
Kokolakis, George *see* **Papageorgiou, Effie, 2004k:90047**
KondakcıKöksalan, Suna *see* **Toktaş, Berkin et al.**
Kopfer, H. *see* **Schönberger, J. et al., 2004k:90048**
Koulamas, Christos (*with* Kyparisis, George J.) Concurrent flowshop scheduling to minimize makespan. (English summary) **2004m:90047**
Kovalëv, M. Ya. (*with* Potts, Chris N.; Strusevich, V. A.) Batching decisions for assembly production systems. (English summary) **2004m:90048**
— *see also* **Cheng, T. C. Edwin et al., 2004b:90036; 2004f:90043; Ng, C. T. Daniel et al., 2004f:90055; 2004k:90046** *and* **Aloulou, Mohamed Ali et al.**
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— *see also* **Yang, Ya et al.**
Krishnamoorthy, Mohan *see* **Ernst, Andreas T. et al.**
Krishnamurti, Ramesh *see* **Gaur, Daya Ram et al., 2004b:90039**
Kruk, Serge G. *see* **Cheng, Eddie et al.**
Kubiak, Wieslaw (*with* Penz, Bernard; Trystram, Denis) Scheduling chains on uniform processors with communication delays. (English summary) **2004i:90048**
— *see also* **Brauner, Nadia et al., 2004d:90027**
Kubzin, Mikhail A. (*with* Strusevich, V. A.) Two-machine flow shop no-wait scheduling with a nonavailability interval. (English summary) **2004m:90049**
Kumar, Subodha *see* **Dawande, Milind et al., 2004f:90046**
Kumar, V. S. Anil (*with* Marathe, Madhav V.) Improved results for Stackelberg scheduling strategies. (English summary)
Kwan, Ann *see* **Wren, Anthony et al.**
Kwan, Raymond *see* **Wren, Anthony et al.**
Kyparisis, George J. *see* **Koulamas, Christos, 2004m:90047**
Laber, Eduardo Sany *see* **Milidiú, Ruy Luiz et al., 2004f:90052**
Ladner, Richard E. *see* **Bar-Noy, Amotz et al., (2004a:68002)**
Lam, Sze Sing *see* **Ng, C. T. Daniel et al., 2004f:90055**
Lan, Tian-Syung *see* **Yeh, Long-Jyi**
Laporte, Gilbert *see* **Hall, Nicholas G. et al., 2004d:90032**
La Poutré, Johannes A. *see* **van Stee, Rob, 2004i:90058**
Lecocq, H. *see* **Bouleimen, K.**
Lee, Chung-Yee (*with* Chen, Zhi-Long) Machine scheduling with transportation considerations. (English summary) **2004g:90043**
Lee, Dong-Ho *see* **Neuendorf, Klaus-Peter et al., 2004i:90053**
Lee, Tae-Eog *see* **Hall, Nicholas G. et al., 2004g:90041**
Lee, Wen-Chiung (*with* Wu, Chin-Chia) Minimizing the total flow time and the tardiness in a two-machine flow shop. (English summary) **2004a:90031**
— (*with* Wu, Chin-Chia; Sung, Hua-Jung) A bi-criterion single-machine scheduling problem with learning considerations. (English summary) **2004k:90044**
Lenstra, Jan Karel *see* **de Paepe, Willem E. et al.**
Lenté, C. *see* **Tercinet, F. et al.**
Leonardi, Stefano *see* **Henzinger, Monika R., 2004f:90049** *and* **Becchetti, Luca et al., 2004j:90038**
Letchford, Adam N. (*with* Eglese, Richard W.; Lysgaard, Jens) Multistars, partial multistars and the capacitated vehicle routing problem. (English summary) **2004i:90049**
Leung, Joseph Y.-T. (*with* Dror, Moshe; Young, Gilbert H.) A note on an open-end bin packing problem. (English summary) **2004e:90041**
— (*with* Pinedo, Michael) Minimizing total completion time on parallel machines with deadline constraints. (English summary) **2004k:90045**
Leus, Roel *see* **Herroelen, Willy**
Levner, E. V. *see* **Kats, Vladimir**
Li, Fa Chao *see* **Liu, Min[2] et al., 2004i:90050**
Li, Guo Jun[1] *see* **Zhang, Shao Qiang** *and* **Cai, Mao Cheng et al.**
Li, Haibing *see* **Cheang, B. et al.**
Li, Yan-Jun (*with* Wu, Tie Jun) A nested hybrid ant colony algorithm for hybrid production scheduling problems. (English and Chinese summaries)
Liang, Wei[2] (*with* Yu, Hai Bin) Performance analysis of a class of preemptive dynamic rule-based scheduling with due date objectives. (Chinese. English and Chinese summaries)
Liao, Ching-Jong (*with* Chen, Wen-Jinn) Single-machine scheduling with periodic maintenance and nonresumable jobs. (English summary) **2004a:90032**
— (*with* Chen, Wen-Jinn) Scheduling under machine breakdown in a continuous process industry. (English summary)
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Liaw, Ching-Fang (*with* Lin, Yang-Kuei; Cheng, Chun-Yuan; Chen, Mingchin) Scheduling unrelated parallel machines to minimize total weighted tardiness. (English summary) **2004g:90044**
— Scheduling two-machine preemptive open shops to minimize total completion time. (English summary) **2004m:90050**
Lichtenstein, Maciej *see* **Oğuz, Ceyda et al., 2004g:90048**
Lim, Andrew L. C. (*with* Rodrigues, Brian; Xiao, Fei; Zhu, Yi[1]) Crane scheduling with spatial constraints. (English summary)
— *see also* **Cheang, B. et al.**
Lin, B. M. T. *see* **Cheng, T. C. Edwin et al., 2004g:90039**
Lin, Chien-Hung (*with* Liao, Ching-Jong) Makespan minimization subject to flowtime optimality on identical parallel machines. (English summary)
Lin, Yang-Kuei *see* **Liaw, Ching-Fang et al., 2004g:90044**
Lindner, T. *see* **Zimmermann, Uwe T., (2004d:00011)**
Lipman, Marc J. *see* **Cheng, Eddie et al.**
Liu, Chunlin[2] (*with* Shi, Jianjun; You, Hai-Yan) Identification of emergency state and obtaining of optimal scheduling scheme for a supply chain system with continuous demand. (English and Chinese summaries)
Liu, Gui Zhen *see* **Cai, Mao Cheng et al.**
Liu, Min[2] (*with* Li, Fa Chao; Wu, Cheng[3]) Fuzzy metric based on the distance function of plane and its application in optimal scheduling problems. (English summary) **2004i:90050**
Liu, Yan Pei *see* **Wan, Liang Xia**
Liu, Zhaohui *see* **Ng, C. T. Daniel et al., 2004b:90045; Cheng, T. C. Edwin et al., 2004d:90029** *and* **2004g:90037**
Liu, Zhen[1] (*with* Righter, Rhonda) Scheduling multicast input-queued switches. (English summary)
Löbel, Andreas *see* **Grötschel, Martin et al., (2004d:00011)**
Lu, Xi Wen (*with* Sitters, René A.; Stougie, Leen) A class of on-line scheduling algorithms to minimize total completion time. (English summary) **2004b:90043**
Luh, Peter B. *see* **Chen, Haoxun, 2004d:90028**
Lysgaard, Jens *see* **Letchford, Adam N. et al., 2004i:90049**
Mączka, Przemysław *see* **Błażewicz, Jacek et al., 2004f:90035**
Maler, Oded *see* **Abdeddaïm, Yasmina, (2004j:68007)**
Măndoiu, Ion *see* **Jain, Kamal et al., 2004h:90024**
Mani, V. *see* **Kim, Hyoung Joong, 2004i:90045** *and* **Suresh, S. et al., 2004i:90059**
Marathe, Madhav V. *see* **Kumar, V. S. Anil**
Margot, François (*with* Queyranne, Maurice; Wang, Yaoguang) Decompositions, network flows, and a precedence constrained single-machine scheduling problem. (English summary) **2004i:90051**
Maroto, Concepción *see* **Ruiz, Rubén et al.**
Martello, Silvano *see* **Dell'Amico, Mauro, 2004f:90047**
Mason, Scott J. (*with* Fowler, John W.; Carlyle, W. Matthew) A modified shifting bottleneck heuristic for minimizing total weighted tardiness in complex job shops. (English summary) **2004e:90042**
Mastrolilli, Monaldo (*with* Gambardella, Luca Maria) Effective neighbourhood functions for the flexible job shop problem. (English summary)
— Scheduling to minimize max flow time: offline and online algorithms. (English summary)

— Efficient approximation schemes for scheduling problems with release dates and delivery times. (English summary) **2004i:90052**
— *see also* **Jansen, Klaus**
Mati, Yazid (*with* Xie, Xiaolan) The complexity of two-job shop problems with multi-purpose unrelated machines. (English summary) **2004g:90045**
de Matta, Renato (*with* Miller, Tan) Production and inter-facility transportation scheduling for a process industry. (English summary)
Mattfeld, Dirk C. (*with* Bierwirth, Christian) An efficient genetic algorithm for job shop scheduling with tardiness objectives. (English summary)
— *see also* **Schönberger, J. et al.**, **2004k:90048**
Mavrotas, G. (*with* Diakoulaki, D.; Capros, P.) Combined MCDA-IP approach for project selection in the electricity market. (English summary)
McKay, Kenneth N. (*with* Morton, Thomas E.; Ramnath, Prasad; Wang, Jingping) "Aversion dynamics" scheduling when the system changes. (English summary)
Medanic, J. (*with* Dorfman, M. J.) Efficient scheduling of traffic on a railway line. (English summary) **2004a:90033**
Megow, Nicole (*with* Schulz, Andreas S.) On-line scheduling to minimize average completion time revisited. (English summary)
Meisels, Amnon (*with* Kaplansky, Eliezer) Iterative restart technique for solving timetabling problems. (English summary)
Mesghouni, Khaled (*with* Hammadi, Slim; Borne, Pierre) Evolutionary algorithms for job-shop scheduling. (English summary)
M'Hallah, Rym *see* **Bulfin, R. L.**, **2004f:90040**
Miao, Cui Xia *see* **Zhang, Yu Zhong**[1]
Michelon, Philippe *see* **Artigues, Christian et al.**, **2004f:90033**
Middendorf, Martin (*with* Timkovskiĭ, V. G.) On scheduling cycle shops: classification, complexity and approximation. (English summary) **2004f:90050**
Migge, Jörn (*with* Jean-Marie, Alain; Navet, Nicolas) Timing analysis of compound scheduling policies: application to Posix 1003.1b. (English summary) **2004f:90051**
Mika, Marek *see* **Józefowska, Joanna et al.**, **2004i:90041**
Milidiú, Ruy Luiz (*with* Pessoa, Artur Alves; Laber, Eduardo Sany) The complexity of makespan minimization for pipeline transportation. (English summary) **2004f:90052**
Miliotis, P. *see* **Dimopoulou, M.**
Milis, Ioannis *see* **Afrati, Foto et al.**
Miller, Tan *see* **de Matta, Renato**
Mingozzi, A. *see* **Boschetti, M. A. et al.**
Mirchandani, Pitu B. *see* **Agnetis, Alessandro et al.**
Möhring, Rolf H. (*with* Uetz, Marc) Scheduling scarce resources in chemical engineering. (English summary) (*see* **2004d:00011**)
— (*with* Skutella, Martin; Stork, Frederik) Scheduling with AND/OR precedence constraints. (English summary) **2004m:90051**
Mokotoff, Ethel An exact algorithm for the identical parallel machine scheduling problem. (English summary) **2004g:90046**
Montana, David (*with* Herrero, Jose; Vidaver, Gordon; Bidwell, Garrett) A multiagent society for military transportation scheduling. (English summary)
Montoya-Torres, Jairo R. Competitive analysis of a better on-line algorithm to minimize total completion time on a single-machine. (English summary) **2004f:90053**
Moon, Ilkyeong *see* **Giri, B. C. et al.**, **2004f:90048**
Morton, Thomas E. *see* **McKay, Kenneth N. et al.**
Mosheiov, Gur Simultaneous minimization of total completion time and total deviation of job completion times. (English summary) **2004m:90052**
Moukrim, Aziz Scheduling unitary task systems with zero-one communication delays for quasi-interval orders. (English summary) **2004c:90016**
— (*with* Sanlaville, Eric; Guinand, Frédéric) Parallel machine scheduling with uncertain communication delays. (English summary) **2004g:90047**
Moura, Arnaldo V. *see* **Dias, Tiago M. et al.**
Müller, Tobias *see* **Henz, Martin et al.**
Munier Kordon, Alix (*with* Sourd, Francis) Scheduling chains on a single machine with non-negative time lags. (English summary) **2004b:90044**
Murovec, Boštjan (*with* Šuhel, Peter) A repairing technique for the local search of the job-shop problem. (English summary)
Musliu, Nysret (*with* Schaerf, Andrea; Slany, Wolfgang) Local search for shift design. (English summary)
Muthukrishnan, S. Muthu *see* **Becchetti, Luca et al.**, **2004j:90038**
Muthusamy, Kanesan (*with* Sung, Shao Chin; Vlach, Milan; Ishii, Hiroaki[1]) Scheduling with fuzzy delays and fuzzy precedences. (English summary) **2004a:90034**
Nagamochi, Hiroshi *see* **Karuno, Yoshiyuki**, **2004e:90040** *and* **2004j:90042**
Nagarur, Nagendra N. *see* **Van Hop, Nguyen**
Naor, Joseph *see* **Bar-Noy, Amotz et al.**
Navet, Nicolas *see* **Migge, Jörn et al.**, **2004f:90051**
Néron, E. *see* **Carlier, Jacques**, **2004i:90035** *and* **Tercinet, F. et al.**
Neuendorf, Klaus-Peter (*with* Lee, Dong-Ho; Kiritsis, Dimitris; Xirouchakis, Paul) Disassembly scheduling with parts commonality using Petri nets with timestamps. (English summary) **2004i:90053**
Neumann, Klaus (*with* Schwindt, Christoph) Project scheduling with inventory constraints. (English summary) **2004h:90025**
— (*with* Schwindt, Christoph; Zimmermann, Jürgen) Order-based neighborhoods for project scheduling with nonregular objective functions. (English summary) **2004f:90054**
Newall, J. P. *see* **Burke, Edmund K.**
Ng, C. T. Daniel (*with* Cheng, T. C. Edwin; Kovalëv, M. Ya.; Lam, Sze Sing) Single machine scheduling with a variable common due date and resource-dependent processing times. (English summary) **2004f:90055**
— (*with* Cheng, T. C. Edwin; Yuan, Jin Jiang) Concurrent open shop scheduling to minimize the weighted number of tardy jobs. (English summary) **2004d:90033**
— (*with* Cheng, T. C. Edwin; Yuan, Jin Jiang; Liu, Zhaohui) On the single machine serial batching scheduling problem to minimize total completion time with precedence constraints, release dates and identical processing times. (English summary) **2004b:90045**
— (*with* Cheng, T. C. Edwin; Kovalëv, M. Ya.) Single machine batch scheduling with jointly compressible setup and processing times. (English summary)
— (*with* Kovalëv, M. Ya.) An FPTAS for scheduling a two-machine flowshop with one unavailability interval. (English summary) **2004k:90046**
— *see also* **Cheng, T. C. Edwin et al.**, **2004e:90036** *and* **2004i:90036**
Nicosia, Gaia *see* **Agnetis, Alessandro et al.**
Nobili, P. *see* **Waterer, H. et al.**, **2004f:90060**
Noga, John *see* **Chrobak, Marek et al.**, **2004e:90037**
Nuijten, W. P. M. *see* **Sourd, Francis**, **2004f:90057**
Nunes, L. F. *see* **Costa, D. M. B. et al.**
Oğuz, Ceyda (*with* Ercan, M. Fikret; Cheng, T. C. Edwin; Fung, Y. F.) Heuristic algorithms for multiprocessor task scheduling in a two-stage hybrid flow-shop. (English summary)
— (*with* Zinder, Yakov; Do, Van Ha; Janiak, Adam; Lichtenstein, Maciej) Hybrid flow-shop scheduling problems with multiprocessor task systems. (English summary) **2004g:90048**
Omkar, S. N. *see* **Suresh, S. et al.**, **2004i:90059**
Owens, Bowie *see* **Ernst, Andreas T. et al.**
Pacciarelli, Dario *see* **Agnetis, Alessandro et al.**
Pacifici, Andrea *see* **Agnetis, Alessandro et al.**
de Paepe, Willem E. (*with* Lenstra, Jan Karel; Sgall, Jiří; Sitters, René A.; Stougie, Leen) Computer-aided complexity classification of dial-a-ride problems. (English summary)
Palis, Michael A. *see* **Dasgupta, Bhaskar**[1], **2004j:90040**
Palmgren, M. (*with* Rönnqvist, Mikael; Värbrand, P.) A near-exact method for solving the log-truck scheduling problem. (English summary)
Pan, Hongqi (*with* Yeh, Chung-Hsing; Willis, Robert J.) A hybrid genetic algorithm for project scheduling. (English summary) (*see* **2004h:00015**)
Pan, Yunpeng An improved branch and bound algorithm for single machine scheduling with deadlines to minimize total weighted completion time. (English summary)
Papageorgiou, Effie (*with* Kokolakis, George) A two-unit parallel system supported by $(n-2)$ standbys with general and non-identical lifetimes. (English summary) **2004k:90047**
Parker, Margaret *see* **Wren, Anthony et al.**
Paschos, Vangelis Th. *see* **Della Croce, Federico et al.**, **2004m:90041**
Pato, M. V. *see* **Carrasco, M. P.**, **2004k:90040**
Patt-Shamir, Boaz *see* **Brakerski, Zvika et al.**, **2004h:90020**
Penn, Michal *see* **Boudoukh, Tami et al.**, **2004f:90036**
Penz, Bernard *see* **Kubiak, Wieslaw et al.**, **2004i:90048**
Perona, M. *see* **Cigolini, R. et al.**, **2004f:90045**
Pesch, Erwin *see* **Dorndorf, Ulrich et al.**, **2004e:90038**
Pesenti, Raffaele *see* **Castelli, Lorenzo et al.**
Pessoa, Artur Alves *see* **Milidiú, Ruy Luiz et al.**, **2004f:90052**
Petrovic, Sanja *see* **Silva, J. Dario Landa et al.**, (**2004m:90003**)
Pham Huy Dien *see* **Do Xuan Duong**
Phan-Huy, Toàn *see* **Dorndorf, Ulrich et al.**, **2004e:90038**
Phillips, Cynthia A. (*with* Uma, R. N.; Wein, Joel) Off-line admission control for general scheduling problems. (English summary)
Pinedo, Michael *see* **Leung, Joseph Y.-T.**, **2004k:90045**; **Yang, Ya et al.** *and* **Shakhlevich, N. V. et al.**
Pirkul, Hasan *see* **Agarwal, Anurag et al.**
Poder, Emmanuel (*with* Beldiceanu, Nicolas; Sanlaville, Eric) Computing a lower approximation of the compulsory part of a task with varying duration and varying resource consumption. (English summary)
Pongcharoen, P. (*with* Hicks, Christian; Braiden, P. M.) The development of genetic algorithms for the finite capacity scheduling of complex products, with multiple levels of product structure. (English summary)
Poon, Chung Keung (*with* Zhang, Pixing) Minimizing makespan in batch machine scheduling. (English summary) **2004m:90053**
— *see also* **Deng, Xiao-Tie et al.**, **2004i:90037**
Porkolab, Lorant *see* **Jansen, Klaus**, **2004b:90040** *and* **2004m:90045**
Portioli, A. *see* **Cigolini, R. et al.**, **2004f:90045**
Portmann, Marie-Claude *see* **Aloulou, Mohamed Ali et al.**
Posner, Marc E. *see* **Hall, Nicholas G. et al.**, **2004g:90041**
Posner, Morton J. M. *see* **Iravani, Seyed M. R. et al.**
Potts, Chris N. (*with* Strusevich, V. A.; Tautenhahn, T.) Scheduling batches with simultaneous job processing for two-machine shop problems. (English summary) **2004g:90049**
— *see also* **Kovalëv, M. Ya. et al.**, **2004m:90048** *and* **Hall, Nicholas G.**
Powell, Warren B. *see* **Chen, Zhi-Long**, **2004f:90041**
Pranzo, Marco Batch scheduling in a two-machine flow shop with limited buffer and sequence independent setup times and removal times. (English summary) **2004m:90054**
Proll, Les G. *see* **Wren, Anthony et al.**
Pruhs, Kirk R. *see* **Edmonds, Jeff**, **2004i:90038** *and* **Kalyanasundaram, Bala et al.**, **2004i:90043**
Qi, Xiangtong (*with* Bard, Jonathan F.; Yu, Gang[2]) Class scheduling for pilot training. (English summary)
Queiroz, Marcelo *see* **Da Silva E Silva, Paulo José et al.**
Queyranne, Maurice (*with* Sviridenko, M. I.) A $(2+\varepsilon)$-approximation algorithm for generalized preemptive open shop problem with minsum objective. (English summary) (*see* **2004j:90010**)
— *see also* **Margot, François et al.**, **2004i:90051** *and* **Chou, Cheng-Feng Mabel et al.**, **2004j:90039**
Quintanilla, Sacramento *see* **Valls Verdejo, Vicente et al.**
Rajendran, Chandrasekharan (*with* Ziegler, Hans[2]) Anti-colony algorithms for permutation flowshop scheduling to minimize makespan/total flowtime of jobs. (English summary)
Ramnath, Prasad *see* **McKay, Kenneth N. et al.**
Rana, Soraya B. *see* **Watson, J. P. et al.**
Ranade, Abhiram G. Scheduling loosely connected task graphs. (English summary) **2004e:90043**
Redl, Timothy A. Graceful graphs and graceful labelings: two mathematical programming formulations and some other new results. (English summary) **2004m:90055**
Regev, Oded *see* **Awerbuch, Baruch et al.**, **2004i:90032**

Resende, Mauricio G. C. *see* **Aiex, R. M. et al.**
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Kubiak, Wieslaw Cyclic just-in-time sequences are optimal. (English summary) **2004m:90122**

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Maxwell, William L. *see* **Conway, Richard W. et al., 2004f:90004**
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Moukrim, Aziz *see* **Guinand, Frédéric et al., 2004m:68016**
Munier Kordon, Alix *see* **Baptiste, Philippe et al.**
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Pal, Madhumangal *see* **Saha, Anita, 2004k:68135**
Pardalos, Panos M. *see* **Ekşioğlu, Burak et al., 2004m:90171**
Park, Kitae *see* **Kim, Yeo Keun et al.**
Park, Kunsoo *see* **Chung, Yoojin, 2004f:68182**
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Rapine, C. *see* **Lepere, R., (2004j:68020)**
Ratajczak, Ewa *see* **Czarnowski, Ireneusz et al., 2004i:68015**
Ren, Fengyuan *see* **Lin, Chuang et al., 2004d:93086**
Rode, Manuel *see* **Lücking, Thomas et al.**
Saad, Omar M. *see* **Al-Salem, Ameer et al.**
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Sadinlija, Enes *see* **Johnston, Robert E.**
Saha, Anita (*with* Pal, Madhumangal) Maximum weight k-independent set problem on permutation graphs. (English summary) **2004k:68135**
Sanlaville, Eric *see* **Guinand, Frédéric et al., 2004m:68016**
Sarker, Bhaba R. *see* **Diponegoro, Ahmad, 2004a:90024**
Schepers, Jörg *see* **Fekete, Sándor P.**
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Selle, Thomas (*with* Zimmermann, Jürgen) A bidirectional heuristic for maximizing the net present value of large-scale projects subject to limited resources. (English summary) **2004a:90121**
Sethi, Suresh P. *see* **Sriskandarajah, Chelliah et al.**
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Shachnai, Hadas *see* **Halldórsson, Magnús M. et al., 2004f:05056**
Shan, Zhiguang *see* **Lin, Chuang et al., 2004d:93086**
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van Stee, Rob *see* **Chrobak, Marek et al.**
Stougie, Leen *see* **Feuerstein, Esteban et al., 2004i:68255**
Tan, Xue Zhong *see* **Liu, Bo Lian**
Tan, Zhi Yi *see* **He, Yong[1] et al., 2004j:90089**
Tang, Heng Yong *see* **Zhao, Chuan Li et al.**
Tichý, Tomáš *see* **Chrobak, Marek et al.**
Ting, Hing-Fung *see* **Chan, Wun-Tat et al., 2004b:68018**
To, Kar-Keung *see* **Koo, Chiu-Yuen et al., 2004a:68027** *and* **2004i:68258**
Torng, Eric *see* **Brehob, Mark et al., 2004j:68024**
Tovey, Craig A. Non-approximability of precedence-constrained sequencing to minimize setups. (English summary) **2004j:68069**
Tresser, Charles *see* **Nowicki, Tomasz, 2004k:37193**
Tuza, Zsolt *see* **Mansini, Renata et al., 2004j:68040**
Vakhaniya, Nodari N. *see* **Chrobak, Marek et al.**
Verhaegh, Wim F. J. *see* **Aerts, Joep et al., 2004j:68035** *and* **Wüst, Clemens C.**
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Wagner, Stephen K. *see* **Brehob, Mark et al., 2004j:68024**
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Wierzbowska, Izabela *see* **Czarnowski, Ireneusz et al., 2004i:68015**
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Yao, Enyu *see* **He, Yong[1] et al., 2004j:90089**
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Ye, Yinyu *see* **Yang, Heng et al., 2004g:68199**
Yue, Li *see* **Ding, Ji Huan et al.**
Zhang, Jiawei *see* **Yang, Heng et al., 2004g:68199**
Zhang, Pixing *see* **Deng, Xiao-Tie et al., 2004k:68066**
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Zhu, Jing[1] *see* **He, Yong[1] et al., 2004j:90089**
Zimmermann, Jürgen *see* **Selle, Thomas, 2004a:90121** *and* **Neumann, Klaus et al., 2004i:90005**

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Allen, Robert *see* **Feng, Zheng Ping, 2004j:90044** *and* **Mattei, Massimiliano, 2004j:90045**
Ansell, P. S. *see* **Glazebrook, K. D. et al., 2004k:90051**
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Dunn, R. T. *see* **Glazebrook, K. D. et al., 2004k:90051**
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Pereira, Mario V. F. *see* **Lino, Priscila et al.**
Perkins, James R. Optimal control of failure-prone manufacturing systems with constant repair times. (English summary) **2004m:90064**
Pesenti, Raffaele *see* **Castelli, Lorenzo et al.**
Philpott, A. B. *see* **Anderson, Edward J.**
Plyasunov, A. V. *see* **Kochetov, Yu. A., 2004b:90052**
Powell, Warren B. *see* **Papadaki, Katerina P., 2004g:90055**
Powojowski, M. *see* **Aggarwala, Rita et al.**
Prakhovnik, A. *see* **Ekel, P. Ya. et al.**
Proth, Jean-Marie *see* **Chauhan, Satyaveer Singh, 2004b:90050**
Psarras, John *see* **Goletsis, Yorgos et al.**
Pulsipher, Allan G. *see* **Kaiser, Mark J.**
Rajagopal, Rajalakshmi *see* **Jeeva, M. et al.**
Rapcsák, Tamás *see* **Gass, Saul I.**
Ren, Shou Ju *see* **Tian, Chun Hua et al.**
Ribeiro, Rita Almeida *see* **Marques Pereira, Ricardo Alberto, 2004e:90051**
Rietveld, Piet *see* **Hinloopen, Edwin et al.**
Ringhofer, Christian *see* **Armbruster, Dieter et al., 2004m:90061**
Róg, P. *see* **Sevastjanov, P. V.**
Romero, Carlos *see* **González-Pachón, Jacinto**
Roy, Subash Chandra *see* **Bandyopadhyay, Prabir Kumar et al.**
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Samouilidis, Jesus-Emmanuel *see* **Goletsis, Yorgos et al.**
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Sharma, Dinesh K. (*with* Ghosh, Debasis; Alade, Julius A.) Management decision-making for sugarcane fertilizer mix problems through goal programming. (English summary)
Shi, Wen Kang *see* **Deng, Yong**
Słowinski, Roman *see* **Inuiguchi, Masahiro et al., 2004h:90028**
Smith, Stephen A. *see* **Agrawal, Narendra, 2004f:90064**
Sošić, Greys *see* **Granot, Daniel, 2004g:90054**
Sternin, M. Yu. *see* **Ashichmin, Ilya et al.**
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Sugihara, Kazutomi (*with* Ishii, Hiroaki[1]; Tanaka, Hideo) Interval priorities in AHP by interval regression analysis. (English summary)
Suzuki, Tsutomu (*with* Hodgson, Michael John) Multi-service facility location models. (English summary)
Świtalski, Zbigniew General transitivity conditions for fuzzy reciprocal preference matrices. (English summary) **2004f:90069**
Syarif, Admi *see* **Gen, Mitsuo, (2004f:90009)**
Tamaki, Mitsushi *see* **Mazalov, Vladimir V.**
Tanaka, Hideo *see* **Sugihara, Kazutomi et al.**
Tangyan, A. S. A model for ordinally constructing additive objective functions. (English summary)
Tanino, Tetsuzo *see* **Inuiguchi, Masahiro et al., 2004h:90028**
Tavares, L. Valadares A multi-attribute motivational model of consumer choice based on a new outranking relation. (English summary)
Thonemann, Ulrich W. *see* **Seifert, Ralf W. et al.**
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Toczyłowski, Eugeniusz *see* **Kaleta, Mariusz et al.**
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Tominaga, Makoto *see* **Tokinaga, Shozo**
Totsenko, V. G. *see* **Zgurovskiĭ, M. Z. et al.**
Tse, Yee Kit *see* **Lam, Yeh, 2004h:90029**
Tsyganok, V. V. *see* **Zgurovskiĭ, M. Z. et al.**
van Uden, Ewa *see* **Kwiesielewicz, Miroslaw**
Ukovich, Walter *see* **Castelli, Lorenzo et al.**
Ustinovichius, Leonas *see* **Zavadskas, Edmundas Kazimieras et al.**
Vansnick, Jean-Claude *see* **Grabisch, Michel et al., 2004j:90048**
Vasant, Pandian M. (*with* Nagarajan, Ramachandran; Yaacob, Sazali) Decision making in industrial production planning using fuzzy linear programming. (English summary)
Vetro, Calogero Fuzzy approach to machine layout design for a flexible production system. (Italian. Italian summary)
Vetschera, Rudolf *see* **Stummer, Christian**
Vieira, Guilherme E. (*with* Herrmann, Jeffrey W.; Lin, Edward) Rescheduling manufacturing systems: a framework of strategies, policies, and methods. (English summary)
Vigo, Daniele *see* **Martello, Silvano et al., 2004e:90052**
Vilarinho, Pedro M. *see* **Xambre, Ana R.**
Villar, José *see* **Centeno, E. et al.**
Vitoriano Villanueva, B. *see* **Centeno, E. et al.**
Wang, An-Rong *see* **Li, Zhi-Wu**
Wang, Hui[4] Capacity expansion with exponential jump diffusion processes. (English summary) **2004f:90070**
Wang, Jia Yin *see* **Li, Hong Xing et al.**
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Xambre, Ana R. (*with* Vilarinho, Pedro M.) A simulated annealing approach for manufacturing cell formation with multiple identical machines. (English summary)
Xu, Ze Shui (*with* Da, Qing Li) Hybrid aggregation operator and its application to multiple attribute decision making problems. (English and Chinese summaries)
Yaacob, Sazali *see* **Vasant, Pandian M. et al.**
Yadavalli, V. S. S. *see* **Jeeva, M. et al.**
Yager, Ronald R. Induced aggregation operators. (English summary) **2004g:90056**
Yamashita, Masafumi *see* **Asahiro, Yuichi et al., 2004g:90053**
Yañez Gestoso, Javier *see* **González-Pachón, Jacinto et al., 2004e:90049**
Zavadskas, Edmundas Kazimieras (*with* Ustinovichius, Leonas; Peldschus, Friedel) Development of software for multiple criteria evaluation. (English and Lithuanian summaries)
Zeng, Amy Z. *see* **Geunes, Joseph**
Zgurovskiĭ, M. Z. (*with* Totsenko, V. G.; Tsyganok, V. V.) Group incomplete paired comparisons with account of expert competence. (English summary)
Zhang, Quan (*with* Ma, Jian[1]; Fan, Zhi Ping; Chiang, Wen-Chyuan) A statistical approach to multiple-attribute decision-making with interval numbers. (English summary)
Zhang, Xiang Sun *see* **Lu, De Lin et al.**
Zhao, Pei Xin (*with* Liu, Jia Zhuang) Economic order quantity models for multi-item and multi-storehouse with random demands. (Chinese. English and Chinese summaries)
Zhou, Yong-Pin *see* **Gans, Noah, 2004b:90051**

Zhu, Liang (*with* Kazmer, David) An extensive simplex method for mapping global feasibility. (English summary)
Żółtowska, Izabela *see* **Kaleta, Mariusz et al.**

Items with secondary classifications in 90B50

Abraham, Aji'th *see* **Petrovic-Lazarevic, Sonja**
Abraham, Bovas (*with* Balakrishna, N.) Time series in industry and business. (English summary) (*see* **2004h:62006**)
Ahmed, Shabbir (*with* King, Alan J.; Parija, Gyana R.) A multi-stage stochastic integer programming approach for capacity expansion under uncertainty. (English summary)
Alcaraz Soria, Javier *see* **Ruiz, Rubén et al.**
Allen, Robert *see* **Feng, Zheng Ping**, **2004j:90044** *and* **Mattei, Massimiliano**, **2004j:90045**
Amasaka, K. Proposal and implementation of the "science SQC" quality control principle. (English summary)
Amicucci, Giovanni Luca (*with* Platania, Giuseppe) Dynamic control system to manage the maintenance of repairable parts. (English summary)
Anderson, Edward J. (*with* Xu, Hui Fu) Nash equilibria in electricity markets with fixed prices points. (English summary) (*see* **2004b:90008**)
Angelov, Plamen Multi-objective optimisation in air-conditioning systems: comfort/discomfort definition by IF sets. (English summary)
(Antunes, Carlos Henggeler) *see* **OR models for energy policy, planning and management**
van Antwerpen de Fluiter, Babette *see* **Jansen, Benjamin et al.**
Anvar, Amir M. Intelligent agent application within distributed networking simulation system. (English summary) (*see* **2004b:90008**)
Aringhieri, Roberto (*with* Malucelli, Federico) Optimal operations management and network planning of a district heating system with a combined heat and power plant. (English summary)
Arkin, Esther M. (*with* Hassin, Refael; Rubinstein, Shlomi; Sviridenko, M. I.) Approximations for maximum transportation with permutable supply vector and other capacitated star packing problems. (English summary)
Arriaza, Manuel *see* **Gómez-Limón, José A. et al.**, **2004g:91084**
Atanassov, Krassimir T. (*with* Pasi, Gabriella; Yager, Ronald R.) Intuitionistic fuzzy interpretations of multi-measurement tool multi-criteria decision making.
Azaron, M. *see* **Tavakkoli-Moghaddam, R. et al.**
Balakrishna, N. *see* **Abraham, Bovas**, (**2004h:62006**)
Balbas de la Corte, Alejandro (*with* Muñoz-Bouzo, María José) Stochastic measures of arbitrage. (English summary) **2004k:91095**
Ball, Michael O. (*with* Chen, Chien-Yu[2]; Zhao, Zhen-Ying) Material compatibility constraints for make-to-order production. (English summary) **2004g:90033**
Barac, Dumitru Solving linear cutting stock problems by means of the simplex tableau. (Romanian. English summary) (*see* **2004g:00020**)
Barbosa-Póvoa, Ana Paula F. D. *see* **Pinto, Tânia et al.**
Bebbington, M. S. (*with* Lai, Chin-Diew; Govindaraju, Kondaswamy) Continuous sampling plans for Markov-dependent production processes under limited inspection capacity. (English summary)
Berend, Daniel (*with* Sapir, Luba) Between the expert and majority rules. (English summary) **2004i:91047**
Bertsimas, Dimitris (*with* Gamarnik, David; Sethuraman, Jay) From fluid relaxations to practical algorithms for high-multiplicity job-shop scheduling: the holding cost objective. (English summary) **2004f:90034**
Biging, G. *see* **Del Amo, A. et al.**
Bilgiç, Taner *see* **Tombuş, Önder**
Birge, John R. *see* **Shiina, Takayuki**, **2004j:90070**
Blouin, Vincent Y. *see* **Li, Yusheng et al.**, **2004e:90110**
Bodenhofer, Ulrich Representations and constructions of similarity-based fuzzy orderings. (English summary) **2004d:90139**
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Borm, Peter (*with* Vermeulen, Dries; Voorneveld, Mark) The structure of the set of equilibria for two person multicriteria games. (English summary) **2004c:91005**
Boukas, El-Kébir *see* **Kenne, J. P. et al.**, **2004g:49062**
Bozóki, Sándor A method for solving LSM problems of small size in the AHP. (English summary)
Brauers, Willem K. ★ Optimization methods for a stakeholder society. **2004k:90004**
Bressan, G. M. (*with* Oliveira, Aurelio R. L.) Efficient implementation of LU decomposition in lot-sizing and cutting-stock programming. (Portuguese. English and Portuguese summaries)
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(Brucker, Peter) *see* **Sequencing and scheduling**
Bruckner, Thomas (*with* Morrison, Robbie; Handley, C. C.; Patterson, Murray) High-resolution modeling of energy-services supply systems using deeco: overview and application to policy development. (English summary)
Buchanan, John T. (*with* Gardiner, Lorraine) A comparison of two reference point methods in multiple objective mathematical programming. (English summary) **2004c:90055**
Buzacott, John A. Modelling teams and workgroups in manufacturing. (English summary)
— *see also* **Iravani, Seyed M. R. et al.**
Calvo, Tomasa (*with* Mesiar, Radko) Weighted triangular norms-based aggregation operators. (English summary) **2004f:90178**
Campos, Vicente *see* **Piñana, Estefanía et al.**
Cardoso, Domingos Moreira (*with* de Sousa, Jorge Freire) A numerical tool for multiattribute ranking problems. (English summary) **2004g:91048**
Carlsson, Christer (*with* Fedrizzi, Mario; Fullér, Róbert) ★ Fuzzy logic in management. **2004j:90003**
Castro, Jordi Solving quadratic multicommodity problems through an interior-point algorithm. (English summary) (*see* **2004g:93010**)
Cattani, Kyle (*with* Ferrer, Geraldo; Gilland, Wendell) Simultaneous production of market-specific and global products: a two-stage stochastic program with additional demand after recourse. (English summary)
Chang, Hung-Chi Investment in setup cost reduction on EOQ model with uncertain opportunity cost of capital. (English summary)
Chaudhuri, K. S. *see* **Giri, B. C. et al.**
Chen, Chien-Yu[2] *see* **Ball, Michael O. et al.**, **2004g:90033**
Chen, Liang-Hsuan (*with* Weng, Ming-Chu) A fuzzy model for exploiting quality function deployment. (English summary)
Chen, Yan-Kwang *see* **Liao, Hung-Chang**
Chen, Yao (*with* Zhu, Joe) DEA models for identifying critical performance measures. (English summary)
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Chiteshe, Able *see* **Selekwa, Majura F. et al.**
Choi, Shiu Hong (*with* Yang, F. Y.) A machine-order search space for job-shop scheduling problems. (English summary)
Chu, Peter *see* **Liang, Shing-Ko et al.**
Churkina, S. Yu. (*with* Zabrodin, Yu. D.) Target level method in linear multi-criterion problems. (English summary) **2004f:90112**
Cohon, Jared L. ★ Multiobjective programming and planning.
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Crès, Hervé (*with* Moulin, Hervé) Commons with increasing marginal costs: random priority versus average cost. (English summary) **2004e:91089**
Cromme, Ludwig J. (*with* Würll, Stephan) Modeling, simulation, and optimization of a production line. (English summary)
Cruz, Jose *see* **Nagurney, Anna et al.**, **2004g:90014**
Cutello, V. *see* **Del Amo, A. et al.**
Daganzo, Carlos F. ★ A theory of supply chains. **2004b:90003**
Dai Pra, Ana Lucía A study about dimensional change of industrial parts using fuzzy rules. (English summary)
Dallery, Yves *see* **Hadj Youssef, Khaled et al.**
Dangl, Thomas (*with* Wirl, Franz) Investment under uncertainty: calculating the value function when the Bellman equation cannot be solved analytically. (English summary) **2004m:49080**
Da Silva E Silva, Paulo José (*with* Queiroz, Marcelo; Humes, Carlos, Jr.) A note on "stability of clearing open loop policies in manufacturing systems". (English summary)
Del Amo, A. (*with* Montero de Juan, Francisco Javier; Biging, G.; Cutello, V.) Fuzzy classification systems. (English summary)
Derigs, Ulrich (*with* Nickel, Nils-H.) Meta-heuristic based decision support for portfolio optimization with a case study on tracking error minimization in passive portfolio management. (English summary)
Desages, Alfredo C. *see* **Figueroa, José L.**, **2004b:93048**
Dobos, Imre (*with* Richter, Knut) A production/recycling model with stationary demand and return rates. (English summary) **2004d:90023**
Doumpos, Michael (*with* Zopounidis, Constantin) A multicriteria classification approach based on pairwise comparisons. (English summary)
Drezner, Tammy (*with* Drezner, Zvi) Retail facility location under changing market conditions. (English summary)
Drezner, Zvi *see* **Drezner, Tammy**
Ebiefung, Aniekan (*with* Kostreva, Michael M.) Production equilibrium point in multi-unit manufacturing systems and the vertical linear complementarity problem. (English summary) **2004i:90155**
(Ehrgott, Matthias) *see* **Multiple criteria optimization: state of the art annotated bibliographic surveys**, **2004g:90007**
Fadel, Georges M. *see* **Li, Yusheng et al.**, **2004e:90110**
Faroe, Oluf (*with* Pisinger, David; Zachariasen, Martin) Guided local search for the three-dimensional bin-packing problem. (English summary) **2004f:90110**
Fedrizzi, Mario *see* **Carlsson, Christer et al.**, **2004j:90003**
Feng, Zheng Ping (*with* Allen, Robert) Comments on: "Sufficient conditions for the synthesis of H_∞ fixed-order controllers" [Internat. J. Robust Nonlinear Control **10** (2000), no. 15, 1237–1248] by M. Mattei. (English summary) **2004j:90044**
— *see also* **Mattei, Massimiliano**, **2004j:90045**
Ferrer, Geraldo *see* **Cattani, Kyle et al.**
Figueroa, José L. (*with* Desages, Alfredo C.) Dynamic 'back-off' analysis: use of piecewise linear approximations. (English summary) **2004b:93048**
Fleischmann, Moritz *see* **Mahadevan, B. et al.**
Fleuren, Hein A. *see* **Jansen, Benjamin et al.**
Fliege, Jörg Gap-free computation of Pareto-points by quadratic scalarizations. (English summary) **2004m:90130**
Fruchter, Gila E. (*with* Messinger, Paul R.) Optimal management of fringe entry over time. (English summary) **2004g:91037**
Fukuyama, Hirofumi (*with* Weber, William L.) Modeling input allocative efficiency via distance and quasi-distance functions. (English summary)
Fullér, Róbert *see* **Carlsson, Christer et al.**, **2004j:90003**
Gamal, M. D. H. *see* **Salhi, S.**
Gamarnik, David *see* **Bertsimas, Dimitris et al.**, **2004f:90034**
(Gandibleux, Xavier) *see* **Multiple criteria optimization: state of the art annotated bibliographic surveys**, **2004g:90007**
Gardiner, Lorraine *see* **Buchanan, John T.**, **2004c:90055**
Gershwin, Stanley B. *see* **Tan, Barış**
Getachew, Teodros (*with* Kostreva, Michael M.) A dimension-reduction algorithm for multi-stage decision problems with returns in a partially ordered set. (English summary) **2004d:90118**
(Ghaffari, Asma) *see* **Wonham, W. M.** *and* **Uzam, Murat**
Gharbi, Ali *see* **Kenne, J. P. et al.**, **2004g:49062**
Gilland, Wendell *see* **Cattani, Kyle et al.**
Gimatova, È. È. *see* **Gorelik, V. A.**, (**2004b:90007**)

Giri, B. C. (*with* Jalan, A. K.; Chaudhuri, K. S.) Economic order quantity model with Weibull deterioration distribution, shortage and ramp-type demand. (English summary)
Gómez-Limón, José A. (*with* Arriaza, Manuel; Riesgo, Laura) An MCDM analysis of agricultural risk aversion. (English summary) **2004g:91084**
Göpfert, Alfred *see* **Tammer, Christiane**, **2004k:90117**
Gorelik, V. A. (*with* Gimatova, È. È.) Game-theoretic models of corporate management. (Russian. Russian summary) (*see* **2004b:90007**)
Govindaraju, Kondaswamy *see* **Bebbington, M. S. et al.**
Gumerov, A. M. (*with* Khabibullin, R. F.) Dynamic balancing and the execution of bulk schedules. (Russian) (*see* **2004j:00010**)
Gunasekaran, A. (*with* Ngai, E. W. T.) Information systems in supply chain integration and management. (English summary)
Hadj Youssef, Khaled (*with* Van Delft, Christian; Dallery, Yves) Efficient scheduling rules in a combined make-to-stock and make-to-order manufacturing system. (English summary)
Hall, Nicholas G. (*with* Potts, Chris N.) Supply chain scheduling: batching and delivery. (English summary)
Handley, C. C. *see* **Bruckner, Thomas et al.**
Hassin, Refael *see* **Arkin, Esther M. et al.**
Hohjo, Hitoshi *see* **Teraoka, Yoshinobu**
Hong, Dug Hun (*with* Yi, Hwa-Cho) A note on fuzzy regression model with fuzzy input and output data for manpower forecasting. (English summary) **2004f:62145**
Hong, Zhen Jie *see* **Hu, Yu Da et al.**
Hougaard, Jens Leth (*with* Keiding, Hans) Continuous benchmark selections. (English summary) **2004i:91121**
Howe, Adele E. *see* **Watson, J. P. et al.**
Hu, Yu Da (*with* Hong, Zhen Jie; Zhou, Xuan Wei) Utopian preference mapping and the utopian preference method for group multiobjective optimization. (English summary)
Humes, Carlos, Jr. *see* **Da Silva E Silva, Paulo José et al.**
Iaprasert, Wipanan *see* **Nagarur, Nagendra N. et al.**
Iravani, Seyed M. R. (*with* Buzacott, John A.; Posner, Morton J. M.) Operations and shipment scheduling of a batch on a flexible machine. (English summary)
Ishii, Hiroaki[1] *see* **Muthusamy, Kanesan et al.**, **2004a:90034**
Jalan, A. K. *see* **Giri, B. C. et al.**
Jansen, Benjamin (*with* Swinkels, Pieter C. J.; Teeuwen, Geert J. A.; van Antwerpen de Fluiter, Babette; Fleuren, Hein A.) Operational planning of a large-scale multi-modal transportation system. (English summary)
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Kämpke, Thomas *see* **Wang, Jinchang**
Karabatı, Selçuk (*with* Sayın, Serpil) Assembly line balancing in a mixed-model sequencing environment with synchronous transfers. (English summary)
Keiding, Hans *see* **Hougaard, Jens Leth**, **2004i:91121**
Kenne, J. P. (*with* Boukas, El-Kébir; Gharbi, Ali) Control of production and corrective maintenance rates in a multiple-machine, multiple-product manufacturing system. (English summary) **2004g:49062**
Kerstens, Kristiaan *see* **Briec, Walter et al.**, **2004j:91119**
Khabibullin, R. F. *see* **Gumerov, A. M.**, (**2004j:00010**)
Kimura, Mitsuhiro (*with* Yamada, Shigeru) A hidden-Markov estimation method for mean-shift detection of fraction defective in production process control. (English summary) **2004m:62218**
King, Alan J. *see* **Ahmed, Shabbir et al.**
(Knust, Sigrid) *see* **Sequencing and scheduling**
Kort, Peter M. *see* **Pawlina, Grzegorz**, **2004i:91122**
Kostreva, Michael M. *see* **Getachew, Teodros**, **2004d:90118** *and* **Ebiefung, Aniekan**, **2004i:90155**
Krishnamoorthy, Mohan *see* **Jiang, Houyuan et al.**
Krokhmal, P. A. (*with* Murphey, Robert; Pardalos, Panos M.; Uryasev, Stanislav) Use of conditional value-at-risk in stochastic programs with poorly defined distributions. (English summary) (*see* **2004k:90008**)
Kumbaroğlu, Gürkan (*with* Madlener, Reinhard) Energy and climate policy analysis with the hybrid bottom-up computable general equilibrium model SCREEN: the case of the Swiss CO_2 act. (English summary)
Kuo, C.-T. *see* **Chiang, Shu-Yin et al.**
Lai, Chin-Diew *see* **Bebbington, M. S. et al.**
Lamata, M. T. *see* **Peláez, J. I.**
Lau, Hon-Shiang *see* **Zhao, Xiaobo et al.**
Lee, John W. T. Ordinal decomposability and fuzzy connectives. (English summary) **2004d:03119**
Lesourd, J. B. *see* **Briec, Walter et al.**, **2004j:91119**
Li, Chung-Lun (*with* Xiao, Wen-Qiang) Lot streaming with supplier-manufacturer coordination. (English summary) **2004m:90037**
Li, Qiao Xing *see* **Wang, Zhong Xing et al.**
Li, Yusheng (*with* Fadel, Georges M.; Wiecek, Margaret; Blouin, Vincent Y.) Minimum effort approximation of the Pareto space of convex bi-criteria problems. (English summary) **2004e:90110**
Liang, Shing-Ko (*with* Chu, Peter; Yang, Kuo-Lung) Solutions to open questions of bisection method for optimal ordering time. (English summary)
Liao, Hung-Chang (*with* Chen, Yan-Kwang) Optimal payment time for retailer's inventory system. (English summary)
Lim, J.-T. *see* **Chiang, Shu-Yin et al.**
Liu, Baoding *see* **Liu, Yian-Kui**, **2004d:90142**
Liu, Chunlin[2] (*with* Shi, Jianjun; You, Hai-Yan) Identification of emergency state and obtaining of optimal scheduling scheme for a supply chain system with continuous demand. (English and Chinese summaries)
Liu, San Yang *see* **Mu, Zeng Chao**
Liu, Yian-Kui (*with* Liu, Baoding) Expected value operator of random fuzzy variable and random fuzzy expected value models. (English summary) **2004d:90142**
Liu, Yong[4] *see* **Paschalidis, Ioannis Ch.**, **2004c:90003**
Llamazares, Bonifacio Characterization of fuzzy preference structures through Łukasiewicz triplets. (English summary) **2004d:90143**
Lotov, A. V. Computer visualization of the production possibility set in the framework of the analysis of the efficiency of production units. (Russian)
Madlener, Reinhard *see* **Kumbaroğlu, Gürkan**
Mahadevan, B. (*with* Pyke, David F.; Fleischmann, Moritz) Periodic review, push inventory policies for remanufacturing. (English summary)
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Yamada, Shigeru *see* **Kimura, Mitsuhiro, 2004m:62218**
Yang, F. Y. *see* **Choi, Shiu Hong**
Yang, Kuo-Lung *see* **Liang, Shing-Ko et al.**
Yechiali, Uri *see* **Nakdimon, Oren, 2004e:90033**
Yi, Hwa-Cho *see* **Hong, Dug Hun, 2004f:62145**
You, Hai-Yan *see* **Liu, Chunlin[2] et al.**
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Zimmer, Kirstin *see* **Schneeweiss, Christoph**
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Zopounidis, Constantin *see* **Doumpos, Michael**

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Fergola, P. *see* **Tenneriello, C. et al., 2004k:34169**
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Yano, Candace Arai *see* **Kraus, Ursula G.**

90B70 Theory of organizations, manpower planning [see also 91D35]

Cai, Xiao-Qiang *see* **Lee, Heung Wing Joseph et al., 2004k:90053**
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Kaplansky, Eliezer *see* **Meisels, Amnon**
Kopfer, H. *see* **Schönberger, J. et al., 2004k:90048**
Kumar, Subodha *see* **Dawande, Milind et al., 2004f:90046**
Lima, A. L. Diniz Souto *see* **Belloni, A. et al.**
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(Romeijn, Edwin) *see* **Supply chain optimization**
Sagastizábal, Claudia A. *see* **Belloni, A. et al.**
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90B80 Discrete location and assignment [see also 90C10]

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Bender, Michael A. *see* **Bender, Carl M. et al., 2004m:90066**
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Bretthauer, Kurt M. (*with* Shetty, Bala; Syam, Siddhartha S.) A specially structured nonlinear integer resource allocation problem. (English summary) **2004g:90058**
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Ernst, Andreas T. *see* **Boland, Natashia et al.**
Favrholdt, Lene M. *see* **Epstein, Leah, 2004d:90038**
Fekete, Sándor P. *see* **Bender, Carl M. et al., 2004m:90066**
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Fraticelli, Barbara M. P. *see* **Sherali, Hanif D. et al.**
Fujishige, Satoru *see* **Ito, Hiro et al., 2004k:90061**
Fukushima, Masao F. *see* **Sasaki, Mihiro, 2004j:90052**
Gallo, Giorgio *see* **Cappanera, Paola et al., 2004k:90055**
Gamal, M. D. H. *see* **Salhi, S.**
Gao, Li Qun *see* **Zhang, Qian et al.**
García Pérez, María Dolores (*with* Pelegrín Pelegrín, Blas) All Stackelberg location equilibria in the Hotelling's duopoly model on a tree with parametric prices. (English summary) **2004k:90057**
Gasimov, Rafail N. *see* **Ozdemir, Mujgan S., 2004m:90074**
Gendreau, Michel (*with* Laporte, Gilbert; Semet, Frédéric) Heuristics and lower bounds for the bin packing problem with conflicts. (English summary) **2004k:90058**
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Ghosh, Diptesh Neighborhood search heuristics for the uncapacitated facility location problem. (English summary) **2004e:90056**
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Gimadi, È. Kh. (*with* Korkishko, N. M.) An algorithm for solving the three-index axial assignment problem on one-cycle permutations. (Russian. Russian summary) **2004e:90057**
Glaab, Holger *see* **Pott, Alexander, (2004d:00011)**
Goldengorin, Boris (*with* Ghosh, Diptesh; Sierksma, Gerard) Branch and peg algorithms for the simple plant location problem. (English summary) **2004e:90058**
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Gomes, Fernando C. *see* **Corrêa, Ricardo C. et al.**
Gradišar, Miro (*with* Resinovič, Gortan; Kljajić, Miroljub) Evaluation of algorithms for one-dimensional cutting. (English summary) **2004f:90073**
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Guan, Yongpei (*with* Cheung, Raymond K.) The berth allocation problem: models and solution methods. (English summary) **2004m:90067**
Gudmundsson, Joachim (*with* Haverkort, Herman; Park, Sang-Min; Shin, Chan-Su; Wolff, Alexander) Facility location and the geometric minimum-diameter spanning tree. (English summary) **2004m:90068**
Guha, Sudipto (*with* Meyerson, Adam; Munagala, Kamesh) A constant factor approximation algorithm for the fault-tolerant facility location problem. (English summary) **2004f:90074**
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Hajiaghayi, Mohammad Taghi (*with* Mahdian, Mohammad; Mirrokni, V. S.) The facility location problem with general cost functions. (English summary) **2004d:90039**
Hansen, Pierre *see* **Brimberg, Jack et al., 2004a:90038**
Harms, Janelle J. (*with* Hu, Chenjiang) Physical network design to facilitate capacity reallocation. (English summary)
Harris, Britton Two algorithms for the multi-Weber problem. (English summary)
Haverkort, Herman *see* **Gudmundsson, Joachim et al., 2004m:90068**
Henz, Martin (*with* Yap, Roland H. C.; Lim, Yun Fong; Lua, Seet Chong; Walser, J. Paul; Shi, Xiao Ping[3]) Solving hierarchical constraints over finite domains with local search. (English summary)
Hewko, Jared *see* **Hodgson, Michael John**
Hidaka, Kazuyoshi (*with* Okano, Hiroyuki) An approximation algorithm for a large-scale facility location problem. (English summary) **2004a:90039**
Hifi, Mhand Approximate algorithms for the container loading problem. (English summary) **2004e:90059**
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Hoàng Tụy (*with* Nguyen Duc Nghia; Le Si Vinh) A discrete location problem. (English summary) **2004g:90059**
Hodgson, Michael John (*with* Hewko, Jared) Aggregation and surrogation error in the *p*-median model.
van Hoesel, C. P. M. *see* **Aardal, Karen I. et al., 2004m:90065**
Holloway, Hillary A. (*with* White, Chelsea C., III) Question selection for multi-attribute decision-aiding. (English summary) **2004b:90056**
Holmberg, Kaj *see* **Skriver, Anders J. V. et al., 2004k:90064**
Honami, Shoji *see* **Ito, Hiro et al., 2004k:90061**
Hu, Chenjiang *see* **Harms, Janelle J.**
Hu, Xiang-Pei *see* **Zhang, Qian et al.**
Hurtado, Ferran (*with* Klein, Rolf; Langetepe, Elmar; Sacristán, Vera) The weighted farthest color Voronoi diagram on trees and graphs. (English summary) **2004m:90069**
— *see also* **Díaz-Báñez, J. M. et al., (2004j:00014)**
Ishii, Hiroaki[1] *see* **Uno, Takeshi et al.**
Itatsu, Yuichiro *see* **Ito, Hiro et al., 2004k:90061**
Ito, Hiro (*with* Makino, Kazuhisa; Arata, Kouji; Honami, Shoji; Itatsu, Yuichiro; Fujishige, Satoru) Source location problem with flow requirements in directed networks. (English summary) **2004k:90061**
Ivorra, Carlos *see* **Canós, María J. et al., (2004f:90009)**
Jans, Raf (*with* Degraeve, Zeger) Improved lower bounds for the capacitated lot sizing problem with setup times. (English summary) **2004i:90070**
Johnson, Michael P. Single-period location models for subsidized housing: tenant-based subsidies.
Karasakal, Esra Köktener *see* **Karasakal, Orhan, 2004m:90070**
Karasakal, Orhan (*with* Karasakal, Esra Köktener) A maximal covering location model in the presence of partial coverage. (English summary) **2004m:90070**
Karloff, Howard *see* **Călinescu, Gruia et al.**
Katz, Matthew J. (*with* Kedem, Klara; Segal, Michael) Improved algorithms for placing undesirable facilities. (English summary) **2004a:90040**
Kedem, Klara *see* **Katz, Matthew J. et al., 2004a:90040**
Kellerer, Hans[2] (*with* Kotov, Vladimir) An approximation algorithm with absolute worst-case performance ratio 2 for two-dimensional vector packing. (English summary) **2004a:90041**
Klamroth, Kathrin Algebraic properties of location problems with one circular barrier. (English summary) **2004j:90050**
Klein, Rolf *see* **Hurtado, Ferran et al., 2004m:90069**
Kljajić, Miroljub *see* **Gradišar, Miro et al., 2004f:90073**
Kohli, Rajeev (*with* Krishnamurti, Ramesh; Mirchandani, Prakash) Average performance of greedy heuristics for the integer knapsack problem. (English summary) **2004i:90071**
Korkishko, N. M. *see* **Gimadi, È. Kh., 2004e:90057**
Koster, Arie M. C. A. *see* **Aardal, Karen I. et al., 2004m:90065**
Kotov, Vladimir *see* **Kellerer, Hans[2], 2004a:90041**
Krass, Dmitry *see* **Berman, Oded et al., 2004a:90037**
Krishnamoorthy, Mohan *see* **Boland, Natashia et al.**
Krishnamurti, Ramesh *see* **Kohli, Rajeev et al., 2004i:90071**
Labbé, Martine (*with* Laporte, Gilbert; Martello, Silvano) Upper bounds and algorithms for the maximum cardinality bin packing problem. (English summary) **2004d:90040**
— *see also* **Elloumi, Sourour et al.**
Laguna, Manuel *see* **Osorio, María A.**
Lamari, M. *see* **Fernandez de la Vega, Wenceslao, 2004i:90068**
Langetepe, Elmar *see* **Hurtado, Ferran et al., 2004m:90069**
Laporte, Gilbert *see* **Labbé, Martine et al., 2004d:90040** *and* **Gendreau, Michel et al., 2004k:90058**
Lengyel, Tamás *see* **Tollisen, Gregory P.**
Le Si Vinh *see* **Hoàng Tụy et al., 2004g:90059**
Leung, Joseph Y.-T. *see* **Yang, Jian[4], 2004f:90075**
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Li, Keqin Optimal allocation of heterogeneous robots in World Wide Web search engines. (English summary) **2004d:90041**
Liern, Vicente *see* **Canós, María J. et al., (2004f:90009)**
Lih, Keh-Wei *see* **Brimberg, Jack et al., 2004a:90038**
Lim, Yun Fong *see* **Henz, Martin et al.**
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Liu, Xue Mei *see* **Zhang, Qian et al.**
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Lowe, T. J. *see* **Francis, Richard Lane et al., 2004f:90072**
Lua, Seet Chong *see* **Henz, Martin et al.**
Maffioli, Francesco *see* **Cappanera, Paola et al., 2004k:90055**

Mahdian, Mohammad *see* **Hajiaghayi, Mohammad Taghi et al., 2004d:90039**
Makino, Kazuhisa *see* **Ito, Hiro et al., 2004k:90061**
Mannino, Carlo *see* **Aardal, Karen I. et al., 2004m:90065**
Marianov, Vladimir Location of multiple-server congestible facilities for maximizing expected demand, when services are non-essential. (English summary)
Martello, Silvano *see* **Labbé, Martine et al., 2004d:90040**
Meijer, Henk *see* **Díaz-Báñez, J. M. et al., (2004j:00014)**
Melachrinoudis, Emanuel (*with* Xanthopulos, Zaharias) Semi-obnoxious single facility location in Euclidean space. (English summary)
Meller, Russell D. *see* **Sherali, Hanif D. et al.**
Meyerson, Adam *see* **Guha, Sudipto et al., 2004f:90074**
Michel, Laurent (*with* Van Hentenryck, Pascal) A simple tabu search for warehouse location. (English summary) **2004m:90072**
Miller, Andrew J. (*with* Wolsey, Laurence A.) Tight MIP formulations for multi-item discrete lot-sizing problems. (English summary) **2004d:90042**
Mirchandani, Prakash *see* **Kohli, Rajeev et al., 2004i:90071**
Mirrokni, V. S. *see* **Hajiaghayi, Mohammad Taghi et al., 2004d:90039**
Mladenović, Nenad *see* **Brimberg, Jack et al., 2004a:90038**
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Moreno Pérez, José A. (*with* Moreno Vega, J. Marcos; Verdegay, José-Luis) Fuzzy location problems on networks. (English summary) **2004m:90073**
Moreno Vega, J. Marcos *see* **Moreno Pérez, José A. et al., 2004m:90073**
Mosheiov, Gur *see* **Birman, Motty**
Munagala, Kamesh *see* **Guha, Sudipto et al., 2004f:90074**
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Nguyen Duc Nghia *see* **Hoàng Tụy et al., 2004g:90059**
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Ohsawa, Yoshiaki (*with* Tamura, Kazuki) Efficient location for a semi-obnoxious facility. (English summary)
Okano, Hiroyuki *see* **Hidaka, Kazuyoshi, 2004a:90039**
Oliveira, Carlos A. S. *see* **Corrêa, Ricardo C. et al.**
Osman, Ibrahim H. (*with* Wassan, Niaz A.) A reactive tabu search meta-heuristic for the vehicle routing problem with back-hauls. (English summary)
Osorio, María A. (*with* Laguna, Manuel) Logic cuts for multilevel generalized assignment problems. (English summary)
Osumi, Shigehiro *see* **Uno, Takeshi et al.**
Ouzia, Hacene *see* **Haddadi, Salim**
Ozdemir, Mujgan S. (*with* Gasimov, Rafail N.) The analytic hierarchy process and multiobjective 0-1 faculty course assignment. (English summary) **2004m:90074**
Paelinck, Jean H. P. On locations and distances. (English summary)
Pallottino, Stefano *see* **Scaparra, Maria Paola et al.**
Pardalos, Panos M. *see* **Corrêa, Ricardo C. et al.**
Park, Sang-Min *see* **Gudmundsson, Joachim et al., 2004m:90068**
Pelegrín Pelegrín, Blas *see* **García Pérez, María Dolores, 2004k:90057**
Pochet, Yves *see* **Elloumi, Sourour et al.**
Pott, Alexander (*with* Glaab, Holger) Optimization problems in a semi-automatic device for cutting leather. (English summary) (*see* **2004d:00011**)
Potvin, Jean-Yves *see* **Gendron, Bernard et al., 2004k:90059**
Rabani, Yuval *see* **Călinescu, Gruia et al.**
Rappaport, David *see* **Díaz-Báñez, J. M. et al., (2004j:00014)**
Ravi, Ramamoorthi (*with* Sinha, Amitabh) Integrated logistics: approximation algorithms combining facility location and network design. (English summary)
Rayco, M. B. *see* **Francis, Richard Lane et al., 2004f:90072**
Resinovič, Gortan *see* **Gradišar, Miro et al., 2004f:90073**
ReVelle, Charles S. *see* **George, J. W., 2004k:90060**
Rodrigues, Rosália *see* **de Almeida, Ana Maria, 2004g:90057**
Rump, Christopher M. *see* **Wang, Qian[2] et al., 2004g:90061**
Sacristán, Vera *see* **Hurtado, Ferran et al., 2004m:90069**
Saito, Seiji *see* **Uno, Takeshi et al.**
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Sasaki, Mihiro (*with* Fukushima, Masao F.) On the hub-and-spoke model with arc capacity constraints. (English summary) **2004j:90052**
Sassano, Antonio *see* **Aardal, Karen I. et al., 2004m:90065**
Scaparra, Maria Paola (*with* Pallottino, Stefano; Scutellà, Maria Grazia) Large-scale local search heuristics for the capacitated vertex p-center problem. (English summary)
Scheithauer, Guntram *see* **Stoyan, Yu. G. et al., 2004i:90073**
Schneuwly, P. (*with* Widmer, Marino) Layout modeling and construction procedure for the arrangement of exhibition spaces in a fair. (English summary)
Schrader, Rainer *see* **Eissfeldt, N.**
Scott, Carlton *see* **Drezner, Zvi et al.**
Scutellà, Maria Grazia *see* **Scaparra, Maria Paola et al.**
Segal, Michael *see* **Katz, Matthew J. et al., 2004a:90040**
Sellarès, J. Antoni *see* **Díaz-Báñez, J. M. et al., (2004j:00014)**
Semet, Frédéric *see* **Gendreau, Michel et al., 2004k:90058**
Senne, Edson L. F. *see* **Lorena, Luiz A. N., 2004m:90071**
Sherali, Hanif D. (*with* Fraticelli, Barbara M. P.; Meller, Russell D.) Enhanced model formulations for optimal facility layout. (English summary)
Shetty, Bala *see* **Bretthauer, Kurt M. et al., 2004g:90058**
Sheu, Shey Huei (*with* Chen, Jih-An) Optimal lot-sizing problem with imperfect maintenance and imperfect production. (English summary) **2004k:90063**
Shi, Xiao Ping[3] *see* **Henz, Martin et al.**
Shin, Chan-Su *see* **Gudmundsson, Joachim et al., 2004m:90068**
Shiode, Shogo (*with* Drezner, Zvi) A competitive facility location problem on a tree network with stochastic weights. (English summary) **2004c:90018**
Shmoys, David B. *see* **Swamy, Chaitanya, (2004a:68002)**
Sierksma, Gerard *see* **Goldengorin, Boris et al., 2004e:90058** *and* **2004i:90069**
Sinha, Amitabh *see* **Ravi, Ramamoorthi**
Skriver, Anders J. V. (*with* Andersen, Kim Allan; Holmberg, Kaj) Bicriteria network location (BNL) problems with criteria dependent lengths and minisum objectives. (English summary) **2004k:90064**
Song, Jing-Sheng *see* **Drezner, Zvi et al.**
Song, X. *see* **Nie, Yi Yong et al., 2004j:90051**
Soriano, Patrick *see* **Gendron, Bernard et al., 2004k:90059**
Stoyan, Yu. G. (*with* Yaskov, G.; Scheithauer, Guntram) Packing of various radii solid spheres into a parallelepiped. (English summary) **2004i:90073**
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Swamy, Chaitanya (*with* Shmoys, David B.) Fault-tolerant facility location. (English summary) (*see* **2004a:68002**)
Syam, Siddhartha S. A model and methodologies for the location problem with logistical components. (English summary)
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Tamir, Arie An improved algorithm for the distance constrained p-center location problem with mutual communication on tree networks. (English summary)
— Sorting weighted distances with applications to objective function evaluations in single facility location problems. (English summary) **2004m:90075**
— *see also* **Francis, Richard Lane et al., 2004f:90072**
Tamura, Kazuki *see* **Ohsawa, Yoshiaki**
Tanaka, Hideo *see* **Guo, Peijun, 2004b:90055**
Tassa, Tamir *see* **Epstein, Leah, 2004e:90055**
Thorup, Mikkel Quick and good facility location. (English summary) (*see* **2004a:68002**)
Tollisen, Gregory P. (*with* Lengyel, Tamás) On minimizing distance by the road less traveled.
Trkman, Peter (*with* Gradišar, Miro) A comparison between exact and approximate method for solution of general one-dimensional cutting stock problem. (English summary)
Uno, Takeshi (*with* Ishii, Hiroaki[1]; Saito, Seiji; Osumi, Shigehiro) Competitive facility location problem: an algorithm for the problem concerning the existence of multi-type customers. (English summary)
Van Hentenryck, Pascal *see* **Michel, Laurent, 2004m:90072**
Ventura, Paolo (*with* Eisenbrand, Friedrich) A compact linear program for testing optimality of perfect matchings. (English summary) **2004g:90060**
Verdegay, José-Luis *see* **Moreno Pérez, José A. et al., 2004m:90073**
Vetro, Calogero Flexible machine layout design approached by genetic algorithm and integer programming. (English summary)
Volgenant, A. A note on the assignment problem with seniority and job priority constraints. (English summary)
— Solving the k-cardinality assignment problem by transformation. (English summary)
Walser, J. Paul *see* **Henz, Martin et al.**
Wang, Qian[2] (*with* Batta, Rajan; Bhadury, Joyendu; Rump, Christopher M.) Budget constrained location problem with opening and closing of facilities. (English summary) **2004g:90061**
Wassan, Niaz A. *see* **Osman, Ibrahim H.**
Wen, Ue-Pyng *see* **Lin, Chi-Jen, 2004k:90062**
Wesolowsky, George O. *see* **Younies, Hassan**
White, Chelsea C., III *see* **Holloway, Hillary A., 2004b:90056**
Widmer, Marino *see* **Schneuwly, P.**
Williams, Justin C. Optimal direct and indirect covering trees. (English summary)
Wolff, Alexander *see* **Gudmundsson, Joachim et al., 2004m:90068**
Wolsey, Laurence A. *see* **Miller, Andrew J., 2004d:90042**
Xanthopulos, Zaharias *see* **Melachrinoudis, Emanuel**
Yang, Jian[4] (*with* Leung, Joseph Y.-T.) The ordered open-end bin-packing problem. (English summary) **2004f:90075**
Yap, Roland H. C. *see* **Henz, Martin et al.**
Yaskov, G. *see* **Stoyan, Yu. G. et al., 2004i:90073**
Younies, Hassan (*with* Wesolowsky, George O.) A mixed integer formulation for maximal covering by inclined parallelograms. (English summary)
Yu, J. *see* **Nie, Yi Yong et al., 2004j:90051**
Zak, Eugene J. Row and column generation technique for a multistage cutting stock problem. (English summary)
Zhang, Qian (*with* Gao, Li Qun; Liu, Xue Mei; Hu, Xiang-Pei) A two-phase heuristic approach to the location routing problem. (Chinese. English and Chinese summaries)
Zopounidis, Constantin *see* **Doumpos, Michael**

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Ramalhinho Lourenço, Helena *see* **Colomé, Rosa et al.**
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Shiode, Shogo *see* **Osumi, Shigehiro, 2004f:90078**
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90Cxx Mathematical programming [see also 49Mxx, 65Kxx]

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(Thirwani, D.) *see* **Calvete Fernández, Herminia Inmaculada**
Thrall, Robert M. *see* **Banker, Rajiv D. et al.**
Tian, Peng *see* **Duan, Yongrui et al., 2004j:90061**
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Butkovič, Peter *see* **Burkard, Rainer E., 2004j:90085**
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Fullér, Róbert *see* **Carlsson, Christer**, (**2004f:90009**)

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Hartl, Richard F. *see* **Doerner, Karl F. et al.**, **2004i:90195**

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Stipanović, Dušan M. *see* **Šiljak, Dragoslav D., 2004k:93127**
Stockbridge, Richard H. *see* **Mendiondo, Marta S., 2004k:93145**
Su, L. J. *see* **Nie, Yi Yong et al., 2004d:90047**
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Shoja, Nagi *see* **Jahanshahloo, Gholam Reza et al., 2004f:90085**
Soutif, Éric *see* **Billionnet, Alain**
Tachat, Dominique *see* **Plateau, Agnès et al., 2004e:90064**
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Tolla, Pierre *see* **Plateau, Agnès et al., 2004e:90064**
Toth, Paolo *see* **Martello, Silvano, 2004h:90033**
Tunçel, Levent *see* **Lipták, László, 2004j:90063**
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90C10 Integer programming

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Benmohamed, Mohamed *see* **Rebaiaia, Mohamed Larbi et al.**

Bi, Shi Fei *see* **Jiang, Ben Tie**

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Feng, Ru Peng *see* **Qi, Rong Bin**

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Gurvich, Vladimir *see* **Boros, Endre et al.**

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Hirabayashi, Ryuichi *see* **Ito, Masafumi**, **2004j:90064**

Hoşten, Serkan (*with* Thomas, Rekha R.) Gomory integer programs. (English summary) **2004f:90087**

Imai, Hiroshi *see* **Ishizeki, Takayuki**, **2004i:90083**

Ishizeki, Takayuki (*with* Imai, Hiroshi) Standard pairs for Lawrence-type matrices and their applications to several Lawrence-type integer programs. (English summary) **2004i:90083**

Ito, Masafumi (*with* Hirabayashi, Ryuichi) Computing test sets for integer programming. (English summary) **2004j:90064**

Jaam, Jihad Mohamad *see* **Rebaiaia, Mohamed Larbi et al.**

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Kolliopoulos, Stavros G. Approximating covering integer programs with multiplicity constraints. (English summary) **2004e:90065**

Köppe, Matthias *see* **Haus, Utz-Uwe et al.**, **2004m:90092**

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— *see also* **Fischetti, Matteo**, **2004i:90082**; **Letchford, Adam N.** *and* **Caprara, Alberto et al.**
Loiseau, Irene *see* **Maculan, Nelson et al.**, **2004g:90068**
Lukshin, E. V. *see* **Kravtsov, M. K.**, **2004f:90088**
Maculan, Nelson (*with* Passini, Marcos M.; Brito, José André M.; Loiseau, Irene) Column-generation in integer linear programming. (English summary) **2004g:90068**
Makino, Kazuhisa *see* **Boros, Endre et al.**
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Monaci, Michele *see* **Lodi, Andrea**, **2004g:90067** *and* **Caprara, Alberto et al.**
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Nie, Yi Yong (*with* Su, L. J.; Li, Changjun[1]) An isometric surface method for integer linear programming. (English summary) **2004d:90047**
Parija, Gyana R. (*with* Ahmed, Shabbir; King, Alan J.) On bridging the gap between stochastic integer programming and MIP solver tecnologies. (English summary)
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Perregaard, Michael (*with* Balas, Egon) Generating cuts from multiple-term disjunctions. (English summary) **2004m:90093**
Pickl, Stefan *see* **Kropat, E. et al.**, **2004f:90089**
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Reyes, Patricio A. *see* **Barrientos, O. et al.**, **2004k:90076**
Richardson, Thomas J. (*with* Shepp, Larry) The "point" goalie problem. (English summary) **2004i:90087**
Rietz, Jürgen (*with* Scheithauer, Guntram; Terno, Johannes) Tighter bounds for the gap and non-IRUP constructions in the one-dimensional cutting stock problem. (English summary) **2004f:90090**
Rößler, Andreas *see* **Kropat, E. et al.**, **2004f:90089**
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Rubin, Paul A. Comment on: "A nonlinear Lagrangian dual for integer programming" [Oper. Res. Lett. **30** (2002), no. 6, 401–407] by Y. Xu and D. Li. (English summary) **2004i:90088**
Santos, Eugene, Jr. *see* **Zhong, Xiaomin**, (**2004b:90006**)
Scheithauer, Guntram *see* **Rietz, Jürgen et al.**, **2004f:90090**
Schulz, Andreas S. (*with* Weismantel, Robert) The complexity of generic primal algorithms for solving general integral programs. (English summary) **2004i:90089**
Shenmaĭer, V. V. Analysis of coordinate-wise lifting algorithms for polymatroids. (Russian. Russian summary) **2004b:90070**
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Shepp, Larry *see* **Richardson, Thomas J.**, **2004i:90087**
Shioura, Akiyoshi Fast scaling algorithms for M-convex function minimization with application to the resource allocation problem. (English summary) **2004h:90035**
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Sturmfels, Bernd *see* **De Loera, Jesús A.**, **2004e:90066**
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Terno, Johannes *see* **Rietz, Jürgen et al.**, **2004f:90090**
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Tian, Wei Wen (*with* Zhang, Lian Sheng) An algorithm for finding global minimum of nonlinear integer programming. (English summary)
Trick, Michael A. *see* **Milano, Michela**, (**2004k:90007**)
Uryasev, Stanislav *see* **Murphey, Robert et al.**, (**2004k:90008**)
Valdebenito, A. *see* **Barrientos, O. et al.**, **2004k:90076**
Vanderbeck, Francois Extending Dantzig's bound to the bounded multiple-class binary knapsack problem. (English summary) **2004b:90071**
Vredeveld, Tjark *see* **de Bruin, Arie et al.**, **2004a:90051**
Wagelmans, Albert P. M. *see* **de Bruin, Arie et al.**, **2004a:90051**
Wallace, Mark G. *see* **Ajili, Farid**, (**2004k:90007**)
Wang, Hao Integer programming of circular chromatic numbers. (Chinese. English and Chinese summaries)
Weber, Gerhard-Wilhelm *see* **Kropat, E. et al.**, **2004f:90089**
Weismantel, Robert *see* **Schulz, Andreas S.**, **2004i:90089** *and* **Haus, Utz-Uwe et al.**, **2004m:90092**
Williams, Joy *see* **Lee, Jon[2]**, **2004b:90069**
Wu, Zhi You *see* **Bai, Fu-sheng et al.**, **2004m:90090**
Xu, Yi Fan Asymptotic strong determination in integer programming: quasi dual method. (English summary) **2004i:90090**
— *see also* **Rubin, Paul A.**, **2004i:90088**
Zabarankin, Michael *see* **Murphey, Robert et al.**, (**2004k:90008**)
Zak, Eugene J. The skiving stock problem as a counterpart of the cutting stock problem. (English summary) **2004i:90091**
Zhang, Lian Sheng *see* **Bai, Fu-sheng et al.**, **2004m:90090** *and* **Tian, Wei Wen**
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Algebraic and geometric methods in discrete optimization

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Asratyan, A. S. (*with* Kuzyurin, N. N.) Two sensitivity theorems in fuzzy integer programming. (English summary) **2004i:90200**
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Campillo-López, Antonio *see* **Briales-Morales, Emilio et al.**, **2004k:13018**
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Carr, Robert D. *see* **Burch, Carl et al.**, **2004m:90020**
Chaabane, Djamal *see* **Abbas, Moncef**, **2004e:90101**
Chakrabarti, Amit *see* **Călinescu, Gruia et al.**
Chen, Ke Fei *see* **Li, Qiang[4] et al.**
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Crema, Alejandro *see* **Sylva, John**
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— (*with* Pashkevich, A. V.) On scalarization of vector discrete problems of majority choice. (English summary) **2004f:90113**
— (*with* Pashkevich, A. V.) Vector discrete problems: parametrization of an optimality principle and conditions of solvability in the class of algorithms involving linear convolution of criteria. (English summary) **2004f:90114**
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Escudero, Laureano F. (*with* Muñoz, Susana) On identifying dominant cliques. (English summary) **2004e:90094**
Evans, Lisa *see* **Gomory, Ralph E. et al.**, **2004e:90096** *and* **Aráoz, Julián et al.**, **2004e:90098**
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Frota, Yuri *see* **Campêlo, Manoel et al.**, **2004m:90168**
Fukushima, Masao F. *see* **Sasaki, Mihiro**, **2004j:90052**

Garcia, Renan *see* **Ahmed, Shabbir**
Gasparyan, Grigor (*with* Preissmann, Myriam; Sebő, András) Imperfect and nonideal clutters: a common approach. (English summary) **2004m:05061**
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Gimadi, È. Kh. (*with* Korkishko, N. M.) An algorithm for solving the three-index axial assignment problem on one-cycle permutations. (Russian. Russian summary) **2004e:90057**
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— On the positive sum property and the computation of Graver test sets. (English summary) **2004f:90091**
Henderson, Shane G. *see* **Atlason, Július et al.**
Hibi, Takayuki *see* **Ohsugi, Hidefumi et al., 2004m:13073**
Hochbaum, Dorit S. (*with* Queyranne, Maurice) Minimizing a convex cost closure set. (English summary) **2004h:90060**
— Monotonizing linear programs with up to two nonzeroes per column. (English summary) **2004i:90077**
Hooker, Kevin *see* **Easton, Todd et al., 2004i:90194**
Hoşten, Serkan (*with* Maclagan, Diane) The vertex ideal of a lattice. (English summary) **2004g:13025**
Hu, Yi-Chung (*with* Chen, Ruey-Shun; Tzeng, Gwo-Hshiung; Chiu, Yu-Jing) Acquisition of compound skills and learning costs for expanding competence sets. (English summary)
Iwata, Satoru A faster scaling algorithm for minimizing submodular functions. (English summary)
Johannessen, Bjarne *see* **Dahl, Geir, 2004m:90011**
Johnson, Ellis L. *see* **Gomory, Ralph E. et al., 2004e:90096; 2004e:90097** *and* **Aráoz, Julián et al., 2004e:90098**
Johnston, Robert E. (*with* Sadinlija, Enes) A new model for complete solutions to one-dimensional cutting stock problems. (English summary)
Jünger, Michael *see* **Buchheim, Christoph, 2004i:20004**
Karloff, Howard *see* **Călinescu, Gruia et al.**
King, Alan J. *see* **Ahmed, Shabbir et al.**
Kitamura, Tomonori *see* **Ohsugi, Hidefumi et al., 2004m:13073**
Kodek, Dušan M. (*with* Krisper, Marjan) An algorithm for computing the optimal cycle time of a printed circuit board assembly line. (English summary) **2004g:90034**
Kopman, L. *see* **Ralphs, T. K. et al., 2004g:90126**
Korkishko, N. M. *see* **Gimadi, È. Kh., 2004e:90057**
Krisper, Marjan *see* **Kodek, Dušan M., 2004g:90034**
Krumke, Sven Oliver (*with* Marathe, Madhav V.; Poensgen, Diana; Ravi, S. S.; Wirth, Hans-Christoph) Budgeted maximum graph coverage. (English summary)
— *see also* **Burch, Carl et al., 2004m:90020**
Küçükyazici, Beste *see* **Özdamar, Linet et al.**
Kuzyurin, N. N. *see* **Asratyan, A. S., 2004i:90200**
Landete, Mercedes *see* **Cánovas, Lázaro et al., 2004b:90165**
Lasserre, Jean Bernard (*with* Zeron, Eduardo S.) On counting integral points in a convex rational polytope. (English summary) **2004j:52018**
Lee, Eva K. *see* **Easton, Todd et al., 2004i:90194**
Lee, Jon[2] *see* **Coppersmith, Don, 2004c:90106**
Le Pape, Claude *see* **Danna, Emilie, (2004k:90007)**
Letchford, Adam N. (*with* Lodi, Andrea) Primal separation algorithms. (English summary) **2004m:90232**
— *see also* **Caprara, Alberto, 2004c:90044**
Li, Guo Jun[1] *see* **Deng, Xiao-Tie et al., 2004b:68198**
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Li, Yan Jun *see* **Cornuéjols, Gérard et al., 2004h:90036**
Lodi, Andrea *see* **Letchford, Adam N., 2004m:90232** *and* **Focacci, Filippo et al., (2004k:90007)**
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Maclagan, Diane *see* **Hoşten, Serkan, 2004g:13025**
Mamedov, Knyaz Sh. Definition of the narrow intervals for variables in the integer-valued knapsack problem. (English summary)
Marathe, Madhav V. *see* **Burch, Carl et al., 2004m:90020** *and* **Krumke, Sven Oliver et al.**
Marín, Ángel G. *see* **Barbas, Javier**
Marín Pérez, A. *see* **Cánovas, Lázaro et al., 2004b:90165**
Matsuda, Satoshi Dynamics of quantized Hopfield networks for integer programming. (Japanese. English and Japanese summaries)
Milano, Michela *see* **Constraint and integer programming, 2004k:90007** *and* **Focacci, Filippo et al., (2004k:90007)**
Monaci, Michele *see* **Caprara, Alberto et al., 2004i:90067**
Muñoz, Susana *see* **Escudero, Laureano F., 2004e:90094**
Ohsugi, Hidefumi (*with* Kitamura, Tomonori; Hibi, Takayuki) Universal Gröbner bases, integer programming and finite graphs. (English summary) **2004m:13073**
Özdamar, Linet (*with* Ekinci, Ediz; Küçükyazici, Beste) Emergency logistics planning in natural disasters. (English summary)
Parija, Gyana R. *see* **Ahmed, Shabbir et al.**
Parrilo, Pablo A. Semidefinite programming relaxations for semialgebraic problems. (English summary) **2004g:90075**
Pashkevich, A. V. *see* **Emelichev, Vladimir A., 2004f:90113** *and* **2004f:90114**
Phillips, Cynthia A. *see* **Burch, Carl et al., 2004m:90020**
Piaw, Teo Chung *see* **Sethuraman, Jay et al., 2004b:91068**
Pisón-Casares, Pilar *see* **Briales-Morales, Emilio et al., 2004k:13018**
Poensgen, Diana *see* **Krumke, Sven Oliver et al.**
Preissmann, Myriam *see* **Gasparyan, Grigor et al., 2004m:05061**
Pulleyblank, William R. *see* **Ralphs, T. K. et al., 2004g:90126** *and* **Integer programming**
Queyranne, Maurice *see* **Hochbaum, Dorit S., 2004h:90060**
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Hürlimann, Tony *see* **Azmat, Carlos S. et al.**
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Karabatı, Selçuk *see* **Akkan, Can**
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Ottosson, Greger *see* **Thorsteinsson, Erlendur S.**, **2004a:90075**
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Wesolowsky, George O. *see* **Younies, Hassan**
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90C15 Stochastic programming

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Gröwe-Kuska, N. *see* **Dupačová, Jitka et al., 2004c:90027**
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da Fonseca, C. M. *see* **Hüsler, Jürg et al.**, **2004g:60077**
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Koehl, Pierre-François *see* **Deelstra, Griselda et al.**, **2004g:91069**
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Ohtsubo, Yoshio Minimizing risk models in stochastic shortest path problems. (English summary) **2004g:90135**
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Pollett, Philip K. *see* **Thompson, M. R., 2004j:90023**
Poulsen, Rolf *see* **Nielsen, Søren S., 2004m:91118**
Rajagopal, Rajalakshmi *see* **Jeeva, M. et al.**
Ramalhinho Lourenço, Helena *see* **Colomé, Rosa et al.**
Römisch, Werner *see* **Schultz, Rüdiger et al., (2004d:00011)**
Rustem, Berç (*with* Settergren, Reuben) Scenario specification for robust portfolio analysis. (English summary) **2004j:91153**
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van Ryzin, Garrett *see* **Karaesmen, Itir**
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Vigna, Elena *see* **Haberman, Steven, 2004b:91100**
Wang, Jiamin *see* **Berman, Oded et al.**
Welzl, Emo *see* **Gärtner, Bernd et al., 2004m:90084**
Wesolowsky, George O. *see* **Berman, Oded et al.**
Westphalen, Markus *see* **Schultz, Rüdiger et al., (2004d:00011)**
Wets, Roger J.-B. *see* **Bianchi, Stephen W. et al., 2004k:91098**
Wong, Chak Kuen *see* **Steinhöfel, K. et al.**
(Woodruff, David L.) *see* **Network interdiction and stochastic integer programming, 2004h:90004**
Yadavalli, V. S. S. *see* **Jeeva, M. et al.**
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90C20 Quadratic programming

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Hoàng Tụy *see* **Nguyen Thi Hoai Phuong, 2004c:90029**

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Ruggiero, Valeria *see* **Durazzi, Carla, 2004d:90044**
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Yagola, A. G. *see* **Titarenko, V. N., 2004g:65085**
Yamashita, Makoto *see* **Kim, Sunyoung et al., 2004h:90047**
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90C22 Semidefinite programming

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Roos, Cornelis *see* **Ben-Tal, Aharon et al., 2004e:90069**
Rustem, Berç *see* **Žaković, Stanislav et al.**
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Sun, Jie *see* **Toh, Kim-Chuan et al., 2004a:90060**
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90C25 Convex programming

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Chesi, G. (*with* Garulli, A.; Tesi, Alberto; Vicino, A.) Characterizing the solution set of polynomial systems in terms of homogeneous forms: an LMI approach. (English summary) **2004j:65065**

(Chibisov, Dmitrii) *see* **Magaril-Il′yaev, Georgii G., 2004k:49002**

Crouzeix, Jean Pierre (*with* Gutan, Cornelia) A measure of asymmetry for positive semidefinite matrices. (English summary) **2004f:15036**

Dentcheva, Darinka (*with* Prékopa, András; Ruszczyński, Andrzej) On convex probabilistic programming with discrete distributions. (English summary) **2004c:90026**

Dontchev, Asen L. (*with* Qi, Hou Duo; Qi, Liqun; Yin, Hongxia) A Newton method for shape-preserving spline interpolation. (English summary) **2004a:41024**

Dylewski, Robert *see* **Cegielski, Andrzej, 2004b:49071**

Eckstein, Jonathan A practical general approximation criterion for methods of multipliers based on Bregman distances. (English summary) **2004b:90144**

El Ghaoui, Laurent *see* **Lanckriet, Gert R. G. et al., 2004h:62111**

Elisabeth, E. *see* **Moudafi, A., 2004c:90097**

Feliu, V. *see* **Llanas, B. et al., 2004e:90169**

Fernandez de Sevilla, M. *see* **Llanas, B. et al., 2004e:90169**

Ferrara, Antonella (*with* Utkin, Vadim I.) Sliding mode optimization in dynamic LTI systems. (English summary) **2004b:93029**

Ferrara, Massimiliano (*with* La Torre, Davide) On the optimal target of a macroeconomic growth model. (English summary) **2004b:91130**

Fong, K. F. *see* **Loh, A. P. et al., 2004d:93074**

Freund, Robert M. On the primal-dual geometry of level sets in linear and conic optimization. (English summary) **2004f:90080**

Fukushima, Masao F. (*with* Luo, Zhi-Quan; Tseng, Paul) A sequential quadratically constrained quadratic programming method for differentiable convex minimization. (English summary) **2004g:90150**

Garulli, A. *see* **Chesi, G. et al., 2004j:65065**

Ginchev, Ivan (*with* Hoffmann, Armin) Approximation of set-valued functions by single-valued one. (English summary) **2004a:41043**

Goberna, Miguel A. (*with* Larriqueta, Mercedes; Vera de Serio, Virginia N.) On the stability of the boundary of the feasible set in linear optimization. (English summary) **2004c:90070**

Goffin, Jean-Louis *see* **Oskoorouchi, Mohammad R., 2004h:90048**

Goldfarb, D. *see* **Alizadeh, F., 2004j:90060**

Graña Drummond, L. M. (*with* Iusem, Alfredo N.; Svaiter, B. F.) On first order optimality conditions for vector optimization. (English summary) **2004g:90099**

Gutan, Cornelia *see* **Crouzeix, Jean Pierre, 2004f:15036**

Helmke, Uwe (*with* Ricardo, Sandra; Yoshizawa, Shintaro) Newton's algorithm in Euclidean Jordan algebras, with applications to robotics. (English summary) **2004m:93090**

Hinojosa, Y. (*with* Puerto Albandoz, Justo) Single facility location problems with unbounded unit balls. (English summary) **2004g:90063**

Hiriart-Urruty, J.-B. (*with* Martínez-Legaz, Juan Enrique) New formulas for the Legendre-Fenchel transform. (English summary) **2004k:49078**

Hoffmann, Armin *see* **Ginchev, Ivan, 2004a:41043**

Hu, Jianghai (*with* Prandini, Maria; Sastry, S. Shankar) Optimal coordinated motions of multiple agents moving on a plane. (English summary) **2004i:93126**

Hu, Qing-jie *see* **Jian, Jin Bao et al.**

Iusem, Alfredo N. *see* **Graña Drummond, L. M. et al., 2004g:90099**

Jian, Jin Bao (*with* Hu, Qing-jie; Tang, Chun-ming; Zheng, Hai-yan) Semi-(E, F)-convex functions and semi-(E, F)-convex programming. (English summary)

Jordan, Michael I. *see* **Lanckriet, Gert R. G. et al., 2004h:62111**

Kanno, Yoshihiro (*with* Ohsaki, Makoto) Minimum principle of complementary energy of cable networks by using second-order cone programming. (English summary) **2004h:74012**

Kato, Mikio (*with* Saito, Kichi-Suke; Tamura, Takayuki) On ψ-direct sums of Banach spaces and convexity. (English summary) **2004j:46015**

Konnov, Igor V. Application of the proximal point method to nonmonotone equilibrium problems. (English summary) **2004i:49016**

Kostyukova, O. I. The method of the continuation of the solution with respect to the parameter for a family of semi-infinite programming problems. (Russian. English and Russian summaries) **2004g:90118**

Kutateladze, S. S. Isoperimetric-type problems with current hyperplanes. (Russian. Russian summary) **2004b:53014**

Lacy, Seth L. (*with* Bernstein, Dennis S.) Subspace identification with guaranteed stability using constrained optimization. (English summary) **2004d:93032**

Laghdir, M. Optimality conditions in reverse convex optimization. (English summary) **2004i:90186**

Lanckriet, Gert R. G. (*with* El Ghaoui, Laurent; Bhattacharyya, Chiranjib; Jordan, Michael I.) A robust minimax approach to classification. (English summary) **2004h:62111**

Larriqueta, Mercedes *see* **Goberna, Miguel A. et al., 2004c:90070**

Lasserre, Jean Bernard SDP versus LP relaxations for polynomial programming. (English summary) **2004e:90072**

La Torre, Davide *see* **Ferrara, Massimiliano, 2004b:91130**

Lewis, Adrian S. *see* **Borwein, Jonathan M. et al., 2004c:49075**

Li, Shi Zheng *see* **Yan, Zhaoxiang, 2004m:90136**

Li, Xian-ping *see* **Liao, Chang-gao et al., 2004c:91052**

Liao, Chang-gao (*with* Li, Xian-ping; Xu, Ping) A class of optimization problems with portfolio constraints and the corresponding optimal solution. (English and Chinese summaries) **2004c:91052**

Lindquist, Anders *see* **Byrnes, Christopher I., 2004a:93022**

Llanas, B. (*with* Fernandez de Sevilla, M.; Feliu, V.) Minimum distance between the faces of two convex polyhedra: a sufficient condition. (English summary) **2004e:90169**

Loh, A. P. (*with* Qu, C. Y.; Fong, K. F.) Adaptive control of discrete time systems with concave/convex parametrizations. (English summary) **2004d:93074**

Lu, Jianbo Robust stabilization for systems with rank-one uncertainty structure. (English summary) **2004f:93123**

Luo, Zhi-Quan Applications of convex optimization in signal processing and digital communication. (English summary) **2004i:94031**

— *see also* **Fukushima, Masao F. et al., 2004g:90150**

Magaril-Il′yaev, Georgii G. (*with* Tikhomirov, Vladimir M.) ★ Convex analysis: theory and applications. **2004k:49002**

Martínez-Legaz, Juan Enrique *see* **Hiriart-Urruty, J.-B., 2004k:49078**

Matoušková, Eva *see* **Bauschke, Heinz H. et al., 2004m:47116**

Mitchell, John E. Polynomial interior point cutting plane methods. (English summary) **2004i:90192**

Mittelmann, H. D. An independent benchmarking of SDP and SOCP solvers. (English summary) **2004c:90033**

Moudafi, A. (*with* Elisabeth, E.) An approximate inertial proximal method using the enlargement of a maximal monotone operator. (English summary) **2004c:90097**

Murota, Kazuo (*with* Tamura, Akihisa) Proximity theorems of discrete convex functions. (English summary) **2004m:90123**

Nemirovskii, Arkadii *see* **Ben-Tal, Aharon et al., 2004e:90069**

Nickel, Stefan (*with* Puerto Albandoz, Justo; Rodriguez-Chia, Antonio M.) An approach to location models involving sets as existing facilities. (English summary) **2004h:90030**

Nie, Zan Kan *see* **Zhang, Wei Guo[2], 2004c:91060**

Nurminskiĭ, E. A. More on the global properties of ε-subdifferentials. (Russian. English and Ukrainian summaries) **2004g:49025**

Ohsaki, Makoto *see* **Kanno, Yoshihiro, 2004h:74012**

Oskoorouchi, Mohammad R. (*with* Goffin, Jean-Louis) The analytic center cutting plane method with semidefinite cuts. (English summary) **2004h:90048**

Parrilo, Pablo A. *see* **Prajna, Stephen et al., 2004j:93048**

Popovici, Nicolae *see* **Benoist, Joël, 2004f:49036**

Prajna, Stephen (*with* Parrilo, Pablo A.; Rantzer, Anders) Nonlinear control synthesis by convex optimization. (English summary) **2004j:93048**

Prandini, Maria *see* **Hu, Jianghai et al., 2004i:93126**

Prékopa, András *see* **Dentcheva, Darinka et al., 2004c:90026**

Puerto Albandoz, Justo *see* **Hinojosa, Y., 2004g:90063** *and* **Nickel, Stefan et al., 2004h:90030**

Qi, Hou Duo (*with* Qi, Liqun) Finite termination of a dual Newton method for convex best C^1 interpolation and smoothing. (English summary) **2004j:41029**

— *see also* **Dontchev, Asen L. et al., 2004a:41024**

Qi, Liqun *see* **Dontchev, Asen L. et al., 2004a:41024** *and* **Qi, Hou Duo, 2004j:41029**

Qu, C. Y. *see* **Loh, A. P. et al., 2004d:93074**

Rantzer, Anders *see* **Prajna, Stephen et al., 2004j:93048**

Reich, Simeon *see* **Bauschke, Heinz H. et al., 2004m:47116**

Rhee, Hyangjoo An application of the string averaging method to one-sided best simultaneous approximation. (English summary) **2004c:41031**

Ricardo, Sandra *see* **Helmke, Uwe et al., 2004m:93090**

Rodriguez-Chia, Antonio M. *see* **Nickel, Stefan et al., 2004h:90030**

Rokhlin, D. B. A criterion for the nonexistence of the asymptotic free lunch in a finite-dimensional market under convex portfolio constraints and convex transaction costs. (Russian. Russian summary) **2004g:91078**

Roos, Cornelis *see* **Ben-Tal, Aharon et al., 2004e:90069**

Rubinov, Aleksandr M. Monotonic analysis: convergence of sequences of monotone functions. (English summary) **2004h:49020**

— *see also* **Bagirov, Adil M. et al., 2004a:62115**

Ruszczyński, Andrzej *see* **Dentcheva, Darinka et al., 2004c:90026**

Saito, Kichi-Suke *see* **Kato, Mikio et al., 2004j:46015**

Sastry, S. Shankar *see* **Hu, Jianghai et al., 2004i:93126**

Shveidel, A. P. Abstract convex sets with respect to the class of general min-type functions. (English summary) **2004m:52008**

Stefanov, Stefan M. Method for solving a convex integer programming problem.

Sun, Jie *see* **Toh, Kim-Chuan et al., 2004a:90060**

Svaiter, B. F. *see* **Graña Drummond, L. M. et al., 2004g:90099**

Syau, Yu-Ru (Φ_1, Φ_2)-convex fuzzy mappings. (English summary) **2004f:90180**

Taha, Hassan Some properties of a smoothing process. (English summary) **2004h:49031**

Tamura, Akihisa A coordinatewise domain scaling algorithm for M-convex function minimization. (English summary)

— *see also* **Murota, Kazuo, 2004m:90123**

Tamura, Takayuki *see* **Kato, Mikio et al., 2004j:46015**

Tang, Chun-ming *see* **Jian, Jin Bao et al.**

Tang, Heng Yong (*with* Zhao, Yufang) L-shaped algorithm for two stage problems of stochastic convex programming. (English summary) **2004h:90041**

Tesi, Alberto *see* **Chesi, G. et al., 2004j:65065**

Tikhomirov, Vladimir M. *see* **Magaril-Il′yaev, Georgii G., 2004k:49002**

Toh, Kar-Ann Global optimization by monotonic transformation. (English summary) **2004d:90098**

Toh, Kim-Chuan (*with* Zhao, Gongyun; Sun, Jie) A multiple-cut analytic center cutting plane method for semidefinite feasibility problems. (English summary) **2004a:90060**

Tseng, Paul *see* **Fukushima, Masao F. et al., 2004g:90150**

Utkin, Vadim I. *see* **Ferrara, Antonella, 2004b:93029**

Vargyas, Emese *see* **Wanka, Gert et al., 2004j:90054**

Vera de Serio, Virginia N. *see* **Goberna, Miguel A. et al., 2004c:90070**

Vicino, A. *see* **Chesi, G. et al., 2004j:65065**

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2004f:90181
Wanka, Gert (*with* Boţ, Radu Ioan; Vargyas, Emese) Duality for the multiobjective location model involving sets as existing facilities. (English summary) **2004j:90054**
Wu, Cong Xin *see* **Wang, Guixiang**, **2004f:90181**
Xu, Ping *see* **Liao, Chang-gao et al.**, **2004c:91052**
Yan, Zhaoxiang (*with* Li, Shi Zheng) Saddle point and generalized convex duality for multiobjective programming. (English summary) **2004m:90136**
Yearwood, John *see* **Bagirov, Adil M. et al.**, **2004a:62115**
Yin, Hongxia *see* **Dontchev, Asen L. et al.**, **2004a:41024**
Yoshizawa, Shintaro *see* **Helmke, Uwe et al.**, **2004m:93090**
Zagrodny, Dariusz An optimality of change loss type strategy. (English summary) **2004m:91141**
Zhang, Ju Liang (*with* Zhang, Xiang Sun) A predictor-corrector smoothing method for convex quadratic programming. (Chinese. English and Chinese summaries)
Zhang, Wei Guo² (*with* Nie, Zan Kan) Research of efficient portfolio of risky securities with lower bound. (Chinese. English and Chinese summaries) **2004c:91060**
Zhang, Xiang Sun *see* **Zhang, Ju Liang**
Zhao, Gongyun *see* **Toh, Kim-Chuan et al.**, **2004a:90060**
Zhao, Yufang *see* **Tang, Heng Yong**, **2004h:90041**
Zheng, Hai-yan *see* **Jian, Jin Bao et al.**
Zhu, Qiji J. *see* **Borwein, Jonathan M. et al.**, **2004c:49075**

90C26 Nonconvex programming

Al-Khayyal, Faiz A. *see* **Van Voorhis, Tim**, **2004b:90086**
Antczak, Tadeusz A class of B-(p, r)-invex functions and mathematical programming. (English summary) **2004g:90079**
— Generalized (p, r)-invexity in mathematical programming. (English summary) **2004g:90080**
Arsham, Hossein Globally tight bounds for almost differentiable functions over polytopes with application to tolerance analysis. (English summary)
Bagirov, Adil M. (*with* Rubinov, Aleksandr M.) Cutting angle method and a local search. (English summary) **2004h:90057**
— (*with* Rubinov, Aleksandr M.; Sukhorukova, N. V.; Yearwood, John) Unsupervised and supervised data classification via nonsmooth and global optimization. (English summary) **2004e:90080**
Bector, C. R. (*with* Cambini, Riccardo) Generalized b-invex vector valued functions. (English summary) **2004e:90081**
Beldiman, Miruna *see* **Popa, Marin et al.**, **2004i:90111**
Beliakov, Gleb Cutting angle method—a tool for constrained global optimization. (English summary) **2004m:90116**
Benson, Harold P. Generating sum-of-ratios test problems in global optimization. (English summary) **2004i:90107**
— Concave envelopes of monomial functions over rectangles. (English summary) **2004m:90117**
Bolton, Hermanus P. J. *see* **Snyman, J. A. et al.**
Bouhtou, Mustapha *see* **Nguyen, Thanh Quang et al.**, (**2004h:90005**)
Bui, Alain (*with* Bui, Marc; Hoàng Tụy) A nonconvex optimization problem arising from distributed computing. (English summary) **2004g:90081**
Bui, Marc *see* **Bui, Alain et al.**, **2004g:90081**
Cambini, Riccardo (*with* Carosi, Laura) On generalized convexity of quadratic fractional functions. (English summary) **2004b:90084**
— (*with* Sodini, Claudio) A finite algorithm for a class of nonlinear multiplicative programs. (English summary) **2004c:90041**
— *see also* **Bector, C. R.**, **2004e:90081**
Candido, M. A. B. *see* **Sun, Wen Yu et al.**, **2004e:90090**
Caprari, Elisa ρ-invex functions and (F, ρ)convex functions: properties and equivalences. (English summary) **2004a:90066**
Carosi, Laura *see* **Cambini, Riccardo**, **2004b:90084**
Casado, L. G. (*with* García-Fernández, I.; Csendes, Tibor; Ruíz, V. G.) Heuristic rejection in interval global optimization. (English summary) **2004f:90107**
Chen, Xiusu Some properties of semi-E-convex functions. (English summary) **2004a:90067**
Crouzeix, Jean Pierre ★ Generalized convexity and generalized monotonicity. **2004g:90082**
Csendes, Tibor *see* **Casado, L. G. et al.**, **2004f:90107**
Das, Chakradhar (*with* Misra, Sachidananda; Pradhan, P. K.) On harmonic convexity (concavity) and application to non-linear programming problems. (English summary) **2004e:90082**
Demirhan, Melek Basak *see* **Özdamar, Linet et al.**
Đỗ Văn Lưu *see* **Ha, Nguyen Xuan**, **2004g:90083**
Dzalilov, Z. A. *see* **Rubinov, Aleksandr M.**, **2004e:90088**
Enkhbat, Rentsen Minimization of a convex function over a nonconvex compact set. (English summary) **2004c:90042**
— On some theory, methods and algorithms for concave programming. (English summary) **2004m:90118**
— (*with* Ibaraki, Toshihide) On the maximization and minimization of a quasiconvex function. (English summary) **2004b:90085**
Famularo, Domenico *see* **Sergeev, Yaroslav D. et al.**, **2004d:90066**
Fu, Qingxiang *see* **Zhu, Wen Xing**, **2004d:90067**
Galperin, Efim A. (*with* Guinzbourg, Alexandre; Guinzbourg, Anna) Pseudorandom lattices for global optimization. (English summary) **2004d:90060**
García-Fernández, I. *see* **Casado, L. G. et al.**, **2004f:90107**
Gasimov, Rafail N. *see* **Rubinov, Aleksandr M.**, **2004e:90087**
Ginchev, Ivan (*with* Ivanov, Vsevolod Ivanov) Second-order characterizations of convex and pseudoconvex functions. (English summary) **2004i:90108**
Govil, Misha G. *see* **Suneja, S. K. et al.**, **2004k:90098**
Groenwold, Albert A. *see* **Snyman, J. A. et al.**
Grossmann, Ignacio E. (*with* Lee, Sangbum) Generalized convex disjunctive programming: nonlinear convex hull relaxation. (English summary) **2004i:90109**
Guinzbourg, Alexandre *see* **Galperin, Efim A. et al.**, **2004d:90060**
Guinzbourg, Anna *see* **Galperin, Efim A. et al.**, **2004d:90060**
Ha, Nguyen Xuan (*with* Đỗ Văn Lưu) Sufficient conditions for invexity. (English summary) **2004g:90083**
Hadjisavvas, Nicolas The use of subdifferentials for studying generalized convex functions. (English summary) **2004d:90061**
Han, Bo Shun *see* **Yao, Yi Rong et al.**
Henrion, Didier (*with* Lasserre, Jean Bernard) GloptiPoly: global optimization over polynomials with Matlab and SeDuMi. (English summary) **2004g:90084**
Hoàng Tụy *see* **Bui, Alain et al.**, **2004g:90081**
Hoàng Xuân Phú Strictly and roughly convexlike functions. (English summary) **2004d:90062**
— (*with* Nguyen Ngoc Hai; Phan Thanh An) Piecewise constant roughly convex functions. (English summary) **2004e:90083**
Ibaraki, Toshihide *see* **Enkhbat, Rentsen**, **2004b:90085**
Ivanov, A. G. A parallel program of unconstrained minimization. (Russian. Russian summary)
Ivanov, Vsevolod Ivanov Limit extremal problems. (English summary) **2004k:90096**
— *see also* **Ginchev, Ivan**, **2004i:90108**
Jian, Jin Bao Incorrect results for E-convex functions and E-convex programming. (English and Chinese summaries) **2004e:90084**
Kallrath, Josef Exact computation of global minima of a nonconvex portfolio optimization problem. (English summary)
Komlósi, Sándor Farkas theorems for positively homogeneous quasiconvex functions. (English summary) **2004c:90043**
Kotecha, Ketan *see* **Nataraj, Paluri S. V.**, **2004j:90082**
Lalitha, C. S. *see* **Suneja, S. K. et al.**, **2004k:90098**
Lasserre, Jean Bernard *see* **Henrion, Didier**, **2004g:90084**
Le Anh Tuan *see* **Nguyen Dinh**, **2004a:90068**
Lee, Heung Wing Joseph *see* **Yang, Xin Min et al.**, **2004j:90084**
Lee, Sangbum *see* **Grossmann, Ignacio E.**, **2004i:90109**
Le Thi Hoai An (*with* Pham Dinh Tao) A new algorithm for solving large scale molecular distance geometry problems. (English summary) **2004m:90119**
— Solving large scale molecular distance geometry problems by a smoothing technique via the Gaussian transform and D.C. programming. (English summary) **2004h:90058**
Liberti, Leo Comparison of convex relaxations for monomials of odd degree. (English summary) (*see* **2004h:90005**)
Liu, Xian² Two new classes of filled functions. (English summary)
Lü, Yu Pei (*with* Wu, Dong Hua; Yu, Wu Yang) An integral global optimization method from randomness to determinacy. (Chinese. English and Chinese summaries)
Luo, He Zhi (*with* Xu, Z. K.) On characterizations of prequasi-invex functions. (English summary) **2004m:90120**
Lutton, J.-L. *see* **Nguyen, Thanh Quang et al.**, (**2004h:90005**)
Mascarenhas, Walter F. The BFGS method with exact line searches fails for non-convex objective functions. (English summary) **2004i:90110**
Misra, Sachidananda *see* **Das, Chakradhar et al.**, **2004e:90082**
Nataraj, Paluri S. V. (*with* Kotecha, Ketan) Global optimization with higher order inclusion function forms. I. A combined Taylor-Bernstein form. (English summary) **2004j:90082**
Nguyen, Thanh Quang (*with* Bouhtou, Mustapha; Lutton, J.-L.) D.C. approach to bilevel bilinear programming problem: application in telecommunication pricing. (English summary) (*see* **2004h:90005**)
Nguyen Anh Tuan (*with* Pham Canh Duong) Minimization of an almost-convex and almost-concave function. (English summary)
Nguyen Dinh (*with* Le Anh Tuan) Directional Kuhn-Tucker condition and duality for quasidifferentiable programs. (English summary) **2004a:90068**
Nguyen Ngoc Hai *see* **Hoàng Xuân Phú et al.**, **2004e:90083**
Onbaşoğlu, Esin *see* **Özdamar, Linet et al.**
Orlyanskaya, I. V. *see* **Zavriev, S. K. et al.**, **2004g:90086**
Osuna-Gómez, R. *see* **Ruiz-Garzón, G. et al.**, **2004d:90065**
Özdamar, Linet (*with* Demirhan, Melek Basak; Onbaşoğlu, Esin) Pre-search screening: a technique to improve search efficiency in global optimization. (English summary)
Peng, Jian Wen Properties of D-η-properly prequasiinvex functions. (Chinese. English and Chinese summaries)
Penot, Jean-Paul Characterization of solution sets of quasiconvex programs. (English summary) **2004d:90063**
— Lagrangian approach to quasiconvex programming. (English summary) **2004d:90064**
Perunova, Yu. N. *see* **Zavriev, S. K. et al.**, **2004g:90086**
Pham Canh Duong *see* **Nguyen Anh Tuan**
Pham Dinh Tao *see* **Le Thi Hoai An**, **2004m:90119**
Phan Thanh An *see* **Hoàng Xuân Phú et al.**, **2004e:90083**
Popa, Mariana *see* **Popa, Marin et al.**, **2004i:90111**
Popa, Marin (*with* Popa, Mariana; Beldiman, Miruna) On generalized univexity-type nonlinear programming problems. (English summary) **2004i:90111**
Pradhan, P. K. *see* **Das, Chakradhar et al.**, **2004e:90082**
Pugliese, Paolo *see* **Sergeev, Yaroslav D. et al.**, **2004d:90066**
Quapp, Wolfgang A valley following method. (English summary) **2004e:90085**
Queen, N. M. *see* **Salhi, S.**
Ramík, Jaroslav (*with* Vlach, Milan) Concepts of generalized concavity based on triangular norms. (English summary) **2004e:90086**
Raucci, Roberto (*with* Taddeo, Luigi) On generalized concavity and applications to optimization and game theory. (English summary) (*see* **2004g:90008**)
Rubinov, Aleksandr M. (*with* Gasimov, Rafail N.) The nonlinear and augmented Lagrangians for nonconvex optimization problems with a single constraint. (English summary) **2004e:90087**
— (*with* Dzalilov, Z. A.) Abstract convexity of positively homogeneous functions. (English summary) **2004e:90088**
— *see also* **Bagirov, Adil M. et al.**, **2004e:90080** *and* **2004h:90057**
Rufián-Lizana, A. *see* **Ruiz-Garzón, G. et al.**, **2004d:90065**
Ruíz, V. G. *see* **Casado, L. G. et al.**, **2004f:90107**
Ruiz-Garzón, G. (*with* Osuna-Gómez, R.; Rufián-Lizana, A.) Generalized invex monotonicity. (English summary) **2004d:90065**

Rusakov, A. I. Concave programming under the simplest linear restrictions. (Russian. Russian summary) **2004g:90085**

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de Sampaio, Raimundo J. B. *see* **Sun, Wen Yu et al., 2004e:90090**

Sergeev, Yaroslav D. (*with* Pugliese, Paolo; Famularo, Domenico) Index information algorithm with local tuning for solving multidimensional global optimization problems with multiextremal constraints. (English summary) **2004d:90066**

Shen, Pei Ping (*with* Zhang, Ke Cun) Global optimization of signomial geometric programming using linear relaxation. (English summary) **2004k:90097**

Snyman, J. A. (*with* Bolton, Hermanus P. J.; Groenwold, Albert A.) A multi-start methodology for constrained global optimization using novel constrained local optimizers. (English summary)

Sodini, Claudio *see* **Cambini, Riccardo, 2004c:90041**

Stancu-Minasian, Ioan M. Nonlinear programming with semilocally b-preinvex and related functions. (English summary)

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Latifi, M. A. *see* **Chachuat, B.**

Lee, Byung Chai *see* **Oh, Seung Hwan**

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Ryu, Jun-hyung *see* **Pistikopoulos, Efstratios N. et al.**

Sahinidis, Nikolaos V. *see* **Tawarmalani, Mohit**, **2004a:90001** *and* **2004m:90096**

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Tian, Wei Wen *see* **Zhang, Lian Sheng et al.**, **2004j:90120**

Ting, Kai Ming *see* **Beliakov, Gleb et al.**, **2004k:90120**

Törn, A. *see* **Ali, M. Montaz**

Tseng, Paul Further results on approximating nonconvex quadratic optimization by semidefinite programming relaxation. (English summary) **2004m:90110**

Waki, Hayato *see* **Kojima, Masakazu et al.**, **2004i:90105**

Walster, G. William *see* **Hansen, Eldon**, **2004j:90004**

Wang, Shou Yang *see* **Dong, Hong-Bin et al.**, **2004d:90080** *and* **Mishra, Shashi K. et al.**, **2004h:90079**

Wang, Yanjun *see* **Shen, Pei Ping et al.**, **2004f:65062**

Washino, Koji *see* **Nakayama, Hirotaka et al.**, (**2004h:90005**)

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Zhang, Jaipu *see* **Bagirov, Adil M.**, **2004k:90172**

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90C27 Combinatorial optimization

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Aldous, David J. (*with* Percus, Allon G.) Scaling and universality in continuous length combinatorial optimization. (English summary) **2004g:90088**
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Bodmann, B. E. J. *see* **Gómez, A. T.**
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Borgulya, István A heuristic method for the quadratic assignment problem. (English summary)
Burkard, Rainer E. (*with* Butkovič, Peter) Max algebra and the linear assignment problem. (English summary) **2004j:90085**
Butkovič, Peter *see* **Burkard, Rainer E., 2004j:90085**
Caccetta, Louis (*with* Kulanoot, A.) Computational aspects of hard knapsack problems. (English summary) **2004d:90069**
Caprara, Alberto (*with* Letchford, Adam N.) On the separation of split cuts and related inequalities. (English summary) **2004c:90044**
— (*with* Kellerer, Hans[2]; Pferschy, Ulrich) Approximation schemes for ordered vector packing problems. (English summary) **2004a:90069**
— (*with* Monaci, Michele) On the two-dimensional knapsack problem. (English summary) **2004i:90113**
Caruso, C. (*with* Colorni, A.; Aloi, L.) Dominant, an algorithm for the p-center problem. (English summary) **2004c:90045**
Caseau, Yves *see* **Wallace, Mark G. et al., (2004k:90007)**
de Castro Silva, J. L. (*with* Soma, N. Y.; Maculan, Nelson) A greedy search for the three-dimensional bin packing problem: the packing static stability case. (English summary) **2004c:90046**
Chandran, Bala (*with* Golden, Bruce L.; Wasil, Edward) A computational study of three demon algorithm variants for solving the traveling salesman problem. (English summary) (*see* **2004b:90006**)
Chen, Danny Z. (*with* Xu, Jinhui) Computing optimal beams in two and three dimensions. (English summary) **2004f:90109**
Chen, Xujin (*with* Zang, Wenan) Min-max relations for feedback set problems. (English summary)
Cho, Jun-Dong Steiner tree problems in VLSI layout designs. **2004a:90070**
Chvátal, Vašek *see* **Applegate, David et al., 2004h:90059**
Codenotti, Bruno (*with* De Marco, Gianluca; Leoncini, Mauro; Montangero, Manuela; Santini, Massimo) Approximation algorithms for a hierarchically structured bin packing problem. (English summary) **2004j:90086**
Cohen, Edith (*with* Fiat, Amos; Kaplan, Haim) Efficient sequences of trials. (English summary) (*see* **2004a:68002**)
Colorni, A. *see* **Caruso, C. et al., 2004c:90045**
Cook, William *see* **Applegate, David et al., 2004h:90059**
Corominas, Albert *see* **Pastor, Rafael**
Crainic, Teodor Gabriel *see* **Toulouse, Michel et al., 2004k:90103**
Dahl, Geir (*with* Foldnes, Njål) Complete description of a class of knapsack polytopes. (English summary) **2004g:90090**
— (*with* Flatberg, Truls) Some constrained partitioning problems and majorization. (English summary)
Danna, Emilie (*with* Le Pape, Claude) Two generic schemes for efficient and robust cooperative algorithms. (English summary) (*see* **2004k:90007**)
Das, Chakradhar (*with* Tripathy, J. P.) Branch and bound method for generalised assignment problem with non-linear capacity constraints.
Dash, Sanjeeb An exponential lower bound on the length of some classes of branch-and-cut proofs. (English summary)
Deĭneko, Vladimir G. (*with* Woeginger, Gerhard J.) Complexity and approximability results for slicing floorplan designs. (English summary) **2004d:90070**
Delorme, Xavier (*with* Gandibleux, Xavier; Rodriguez, Joaquin) GRASP for set packing problems. (English summary)
De Marco, Gianluca *see* **Codenotti, Bruno et al., 2004j:90086**
Deza, Antoine (*with* Fukuda, Komei; Pasechnik, Dmitrii V.; Sato, Masanori) On the skeleton of the metric polytope. (English summary) **2004m:90121**
Diwekar, Urmila M. A novel sampling approach to combinatorial optimization under uncertainty. (English summary) **2004b:90092**
Dyubin, G. N. (*with* Korbut, A. A.) The average behaviour of greedy algorithms for the knapsack problem: general distributions. (English summary) **2004d:90071**
Ehrgott, Matthias (*with* Skriver, Anders J. V.) Solving biobjective combinatorial max-ordering problems by ranking methods and a two-phases approach. (English summary) **2004a:90071**
Elf, Matthias (*with* Jünger, Michael; Rinaldi, Giovanni) Minimizing breaks by maximizing cuts. (English summary) **2004e:90092**
Emelichev, Vladimir A. (*with* Leonovich, A. M.) Quasistability of the vector l_∞-extreme combinatorial problem with Pareto principle of optimality. (English, Romanian and Russian summaries) **2004e:90093**
Emets, O. A. (*with* Roskladka, E. V.; Nedobachiĭ, S. Ĭ.) An irreducible system of restrictions for a general polyhedron of arrangement. (Ukrainian. English and Ukrainian summaries) **2004k:90100**
Escalante, Mariana S. *see* **Aguilera, Néstor E. et al., 2004b:90088**
Escudero, Laureano F. (*with* Muñoz, Susana) On identifying dominant cliques. (English summary) **2004e:90094**
— (*with* Garín, Araceli; Pérez, Gloria) An $O(n \log n)$ procedure for identifying facets of the knapsack polytope. (English summary) **2004a:90072**
Evans, Lisa *see* **Gomory, Ralph E. et al., 2004e:90096** *and* **Aráoz, Julián et al., 2004e:90098**
Fang, Shu-Cherng *see* **Medaglia, Andrés L., 2004c:90049**
de Farias, Ismael R., Jr. (*with* Nemhauser, George L.) A polyhedral study of the cardinality constrained knapsack problem. (English summary)
— (*with* Nemhauser, George L.) A polyhedral study of the cardinality constrained knapsack problem. (English summary) **2004e:90095**
Faroe, Oluf (*with* Pisinger, David; Zachariasen, Martin) Guided local search for the three-dimensional bin-packing problem. (English summary) **2004f:90110**
Fekete, Sándor P. (*with* Schepers, Jörg) A combinatorial characterization of higher-dimensional orthogonal packing. (English summary)
Fernández, Elena (*with* Meza, Oscar; Garfinkel, Robert; Ortega, Maruja) On the undirected rural postman problem: tight bounds based on a new formulation. (English summary) **2004b:90093**
Fiat, Amos *see* **Cohen, Edith et al., (2004a:68002)**
Fidanova, Stefka ACO algorithm for MKP using various heuristic information. (English summary) (*see* **2004j:65007**)
Flatberg, Truls *see* **Dahl, Geir**
Fleiner, Tamás (*with* Frank, András; Iwata, Satoru) A constrained independent set problem for matroids. (English summary) **2004i:90114**
— *see also* **Aharoni, Ron**
Focacci, Filippo (*with* Lodi, Andrea; Milano, Michela) Exploiting relaxations in CP. (English summary) (*see* **2004k:90007**)
Foldnes, Njål *see* **Dahl, Geir, 2004g:90090**
Fortin, Dominique (*with* Tseveendorj, Ider) Global optimization and multi knapsack: a percolation algorithm. (English summary) **2004j:90087**
Frank, András *see* **Fleiner, Tamás et al., 2004i:90114**
Fujishige, Satoru (*with* Iwata, Satoru) Bisubmodular function minimization. (English summary) (*see* **2004j:90010**)
— Submodular function minimization and related topics. (English summary) **2004g:90091**
Fukuda, Komei *see* **Deza, Antoine et al., 2004m:90121**
Gandibleux, Xavier *see* **Delorme, Xavier et al.**
Garfinkel, Robert *see* **Fernández, Elena et al., 2004b:90093**
Gargano, Luisa (*with* Hell, Pavol; Stacho, Ladislav; Vaccaro, Ugo) Spanning trees with bounded number of branch vertices. (English summary)
Garín, Araceli *see* **Escudero, Laureano F. et al., 2004a:90072**
Gavalec, Martin (*with* Plávka, Ján) An $O(n^2)$ algorithm for maximum cycle mean of Monge matrices in max-algebra. (English summary) **2004b:90094**
Gehring, Wolfgang (*with* Salamon, Peter; Whitney, Roger E.; Sibani, Paolo) Correlation structure of landscapes of NP-complete optimization problems at finite temperatures. (English summary)
Ghosh, Diptesh (*with* Sierksma, Gerard) On the complexity of determining tolerances for ε-optimal solutions to min-max combinatorial optimization problems. (English summary) **2004j:90088**
Gimadi, È. Kh. *see* **Baburin, A. E., 2004b:90090**
Glover, Fred *see* **Yagiura, Mutsunori et al.**
Golden, Bruce L. *see* **Chandran, Bala et al., (2004b:90006)**
Gómez, A. T. (*with* Bodmann, B. E. J.) Neighborhood search considering continuous space search. (English and Portuguese summaries)
Gomory, Ralph E. (*with* Johnson, Ellis L.) An approach to integer programming.
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— (*with* Johnson, Ellis L.) T-space and cutting planes. (English summary) **2004e:90097**
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Goncharov, E. N. (*with* Kochetov, Yu. A.) Probabilistic search with exclusions for discrete unconstrained optimization. (Russian. Russian summary)
Gourvès, Laurent *see* **Angel, Eric et al.**
Griewank, Andreas (*with* Naumann, Uwe) Accumulating Jacobians as chained sparse matrix products. (English summary) **2004b:90095**
Guenin, Bertrand A short proof of Seymour's characterization of the matroids with the Max-Flow Min-Cut property. (English summary)
Gutin, Gregory (*with* Vaĭnshteĭn, A. D.; Yeo, Anders) Domination analysis of combinatorial optimization problems. (English summary) **2004g:90092**
— *see also* **Alon, Noga et al., 2004i:90112**
Halldórsson, Bjarni V. *see* **de Bontridder, K. M. J. et al., 2004k:90099**
Halldórsson, Magnús M. *see* **de Bontridder, K. M. J. et al., 2004k:90099**
Hansen, Pierre *see* **Kochetov, Yu. A. et al., 2004c:90047** *and* **Mladenović, Nenad et al., 2004e:90099**

Hassin, Refael (*with* Levin, Asaf; Morad, Dana) Lexicographic local search and the p-center problem. (English summary)
— (*with* Rubinstein, Shlomi) Approximation algorithms for the metric maximum clustering problem with given cluster sizes. (English summary) **2004a:90073**
— (*with* Levin, Asaf) An efficient polynomial time approximation scheme for the constrained minimum spanning tree problem using matroid intersection. (English summary) **2004k:90101**
He, Yong[1] (*with* Tan, Zhi Yi; Zhu, Jing[1]; Yao, Enyu) k-partitioning problems for maximizing the minimum load. (English summary) **2004j:90089**
Hell, Pavol *see* **Gargano, Luisa et al.**
Helmberg, C. Numerical evaluation of SBmethod. (English summary) **2004d:90072**
Hochbaum, Dorit S. (*with* Queyranne, Maurice) Minimizing a convex cost closure set. (English summary) **2004h:90060**
Hooker, John N. (*with* Ottosson, Greger) Logic-based Benders decomposition. (English summary) **2004a:90074**
Huang, Jing Jing (*with* Ling, Yong Xiang; Xu, Feng Min) Rank two relaxation to the quadratic knapsack problem. (Chinese. English and Chinese summaries)
Huang, Scott C.-H. *see* **Min, Manki et al., 2004h:90061**
Hurkens, Cor A. J. (*with* Woeginger, Gerhard J.) On the nearest neighbor rule for the traveling salesman problem. (English summary) **2004i:90115**
— *see also* **de Bontridder, K. M. J. et al., 2004k:90099**
Ibaraki, Toshihide *see* **Imahori, S. et al., 2004g:90093** *and* **Yagiura, Mutsunori et al.**
Il'ev, Victor Hereditary systems and greedy-type algorithms. (English summary) **2004j:90090**
Imahori, S. (*with* Yagiura, Mutsunori; Ibaraki, Toshihide) Local search algorithms for the rectangle packing problem with general spatial costs. (English summary) **2004g:90093**
Iwata, Satoru A faster scaling algorithm for minimizing submodular functions. (English summary)
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— *see also* **Fleiner, Tamás et al., 2004i:90114** *and* **Fujishige, Satoru, (2004j:90010)**
Jiang, Sheng Yi *see* **Li, Qing Hua et al., 2004d:90073**
Johnson, Ellis L. *see* **Gomory, Ralph E. et al., 2004e:90096; 2004e:90097** *and* **Aráoz, Julián et al., 2004e:90098**
Jünger, Michael *see* **Elf, Matthias et al., 2004c:90092**
Kaplan, Haim *see* **Cohen, Edith et al., (2004a:68002)**
Kashiwabara, Kenji (*with* Okamoto, Yoshio) A greedy algorithm for convex geometries. (English summary) **2004j:90091**
Kasper, Thomas *see* **Bockmayr, Alexander, (2004k:90007)**
Kellerer, Hans[2] *see* **Caprara, Alberto et al., 2004a:90069**
Kochetov, Yu. A. (*with* Mladenović, Nenad; Hansen, Pierre) Local search with alternating neighborhoods. (Russian. Russian summary) **2004c:90047**
— *see also* **Goncharov, E. N.**
Korbut, A. A. *see* **Dyubin, G. N., 2004d:90071**
Krivelevich, Michael *see* **Alon, Noga et al., 2004i:90112**
Kubiak, Wieslaw Cyclic just-in-time sequences are optimal. (English summary) **2004m:90122**
Kulanoot, A. *see* **Caccetta, Louis, 2004d:90069**
Kuzyurin, N. N. Probabilistic approximate algorithms in discrete optimization. (Russian. Russian summary)
Labbé, Martine *see* **Mladenović, Nenad et al., 2004e:90099**
Ladányi, L. *see* **Ralphs, T. K. et al., 2004i:90118**
Lenstra, Jan Karel *see* **de Bontridder, K. M. J. et al., 2004k:90099**
Leoncini, Mauro *see* **Codenotti, Bruno et al., 2004j:90086**
Leonovich, A. M. *see* **Emelichev, Vladimir A., 2004e:90093**
Le Pape, Claude *see* **Danna, Emilie, (2004k:90007)**
Letchford, Adam N. *see* **Caprara, Alberto, 2004c:90044**
Levin, Asaf *see* **Hassin, Refael et al., 2004k:90101**
Li, Guang Qiang (*with* Teng, Hong Fei) Isomorphic and non-isomorphic layout patterns of packing problems. (Chinese. English and Chinese summaries)
Li, Ken Li *see* **Li, Qing Hua et al., 2004d:90073**
Li, Qing Hua (*with* Li, Ken Li; Jiang, Sheng Yi; Zhang, Wei) An optimal parallel algorithm for the knapsack problem. (Chinese. English and Chinese summaries) **2004d:90073**
Lin, Chi-Jen (*with* Wen, Ue-Pyng) Sensitivity analysis of the optimal assignment. (English summary) **2004c:90048**
Ling, Yong Xiang *see* **Huang, Jing Jing et al.**
Liu, Hongwei[2] (*with* Liu, San Yang; Xu, Feng Min) A tight semidefinite relaxation of the MAX CUT problem. (English summary) **2004i:90116**
Liu, Jian *see* **Min, Manki et al., 2004h:90061**
Liu, San Yang *see* **Liu, Hongwei[2] et al., 2004i:90116**
Liu, Zhen Hong[1] (*with* Zhang, Jian Zhong) On inverse problems of optimum perfect matching. (English summary) **2004j:90092**
Lodi, Andrea *see* **Focacci, Filippo et al., (2004k:90007)**
Loparic, Marko (*with* Marchand, Hugues; Wolsey, Laurence A.) Dynamic knapsack sets and capacitated lot-sizing. (English summary) **2004g:90095**
Maculan, Nelson *see* **de Castro Silva, J. L. et al., 2004c:90046**
Marchand, Hugues *see* **Loparic, Marko et al., 2004g:90095**
Matsuda, Satoshi Dynamics of quantized Hopfield networks for integer programming. (Japanese. English and Japanese summaries)
Medaglia, Andrés L. (*with* Fang, Shu-Cherng) A genetic-based framework for solving (multi-criteria) weighted matching problems. (English summary) **2004c:90049**
Meza, Oscar *see* **Fernández, Elena et al., 2004b:90093**
Milano, Michela *see* **Focacci, Filippo et al., (2004k:90007)**
Min, Manki (*with* Huang, Scott C.-H.; Liu, Jian; Shragowitz, Eugene; Wu, Weili; Zhao, Yiyuan; Zhao, Ying[1]) An approximation scheme for the rectilinear Steiner minimum tree in presence of obstructions. (English summary) **2004h:90061**
Misevičius, Alfonsas An improved hybrid optimization algorithm for the quadratic assignment problem. (English and Lithuanian summaries)
Missarov, M. D. (*with* Stepanov, R. G.) Combinatorial optimization problems in ultrametric spaces. (Russian. Russian summary) **2004i:90117**
Miyazawa, F. K. (*with* Wakabayashi, Y.) Parametric on-line algorithms for packing rectangles and boxes. (English summary) **2004c:90050**
Mladenović, Nenad (*with* Labbé, Martine; Hansen, Pierre) Solving the p-center problem with tabu search and variable neighborhood search. (English summary) **2004e:90099**
— *see also* **Kochetov, Yu. A. et al., 2004c:90047**
Monaci, Michele *see* **Caprara, Alberto, 2004i:90113**
Montangero, Manuela *see* **Codenotti, Bruno et al., 2004j:90086**
Morad, Dana *see* **Hassin, Refael et al.**
Moriguchi, Satoko (*with* Shioura, Akiyoshi) On Hochbaum's proximity-scaling algorithm for the general resource allocation problem. (English summary)
Müller, Martin[2] *see* **Zhou, Jianjun, 2004m:90127**
Muñoz, Susana *see* **Escudero, Laureano F., 2004e:90094**
Murota, Kazuo (*with* Tamura, Akihisa) Proximity theorems of discrete convex functions. (English summary) **2004m:90123**
Narayanan, Harihar A note on the minimization of symmetric and general submodular functions. (English summary) **2004j:90093**
Nasini, Graciela L. *see* **Aguilera, Néstor E. et al., 2004b:90088**
Naumann, Uwe *see* **Griewank, Andreas, 2004b:90095**
Nedobachiĭ, S. Ĭ. *see* **Emets, O. A. et al., 2004k:90100**
Nemhauser, George L. *see* **de Farias, Ismael R., Jr., 2004e:90095**
Okamoto, Yoshio *see* **Kashiwabara, Kenji, 2004j:90091**
Onn, Shmuel Convex matroid optimization. (English summary) **2004m:90124**
Orlin, James B. *see* **Ahuja, Ravindra K. et al., 2004b:90089**
Ortega, Maruja *see* **Fernández, Elena et al., 2004b:90093**
Östermark, Ralf A multipurpose parallel genetic hybrid algorithm for non-linear non-convex programming problems. (English summary)
Ottosson, Greger *see* **Hooker, John N., 2004a:90074** *and* **Thorsteinsson, Erlendur S., 2004a:90075**
Paletta, Giuseppe (*with* Triki, Chefi) Solving the asymmetric traveling salesman problem with periodic constraints. (English summary)
Paschos, Vangelis Th. *see* **Bazgan, Cristina, 2004b:90091**
Pasechnik, Dmitrii V. *see* **Deza, Antoine et al., 2004m:90121**
Pasiliao, Eduardo L. Tree-based algorithms for the multidimensional assignment problem. (English summary) (*see* **2004k:90008**)
Pastor, Rafael (*with* Corominas, Albert) Branch and Win: OR tree search algorithms for solving combinatorial optimisation problems. (English summary)
Percus, Allon G. *see* **Aldous, David J., 2004g:90088**
Pérez, Gloria *see* **Escudero, Laureano F. et al., 2004a:90072**
Petch, R. J. (*with* Salhi, S.) A multi-phase constructive heuristic for the vehicle routing problem with multiple trips. (English summary) **2004k:90102**
Pferschy, Ulrich *see* **Caprara, Alberto et al., 2004a:90069**
Pinar, Mustafa Çelebi A derivation of Lovász' theta via augmented Lagrange duality. (English summary) **2004e:90100**
Pinelis, Iosif A discrete mass transportation problem for infinitely many sites, and general representant systems for infinite families. (English summary) **2004h:90062**
Pisinger, David *see* **Faroe, Oluf et al., 2004f:90110**
Plávka, Ján *see* **Gavalec, Martin, 2004b:90094**
Poon, Sheung-Hung (*with* Shin, Chan-Su; Strijk, Tycho; Uno, Takeaki; Wolff, Alexander) Labeling points with weights. (English summary) **2004m:90125**
Procopiuc, Cecilia M. *see* **Agarwal, Pankaj K., 2004b:90087**
Puget, Jean-Francois *see* **Wallace, Mark G. et al., (2004k:90007)**
Queyranne, Maurice *see* **Hochbaum, Dorit S., 2004h:90060**
Ralphs, T. K. (*with* Ladányi, L.; Saltzman, M. J.) Parallel branch, cut, and price for large-scale discrete optimization. (English summary) **2004i:90118**
Ravi, Ramamoorthi *see* **de Bontridder, K. M. J. et al., 2004k:90099**
Régin, Jean-Charles Global constraints and filtering algorithms. (English summary) (*see* **2004k:90007**)
Rinaldi, Giovanni *see* **Elf, Matthias et al., 2004e:90092**
Rodriguez, Joaquin *see* **Delorme, Xavier et al.**
Roskladka, E. V. *see* **Emets, O. A. et al., 2004k:90100**
Rubinstein, Shlomi *see* **Hassin, Refael, 2004a:90073**
Ruján, Pál Combinatorial optimization and high dimensional billiards. (English summary) (*see* **2004e:82001**)
Salamon, Peter *see* **Gehring, Wolfgang et al.**
Salhi, S. *see* **Petch, R. J., 2004k:90102**
Saltzman, M. J. *see* **Ralphs, T. K. et al., 2004i:90118**
Sansò, Brunilde *see* **Toulouse, Michel et al., 2004k:90103**
Santini, Massimo *see* **Codenotti, Bruno et al., 2004j:90086**
Sato, Masanori *see* **Deza, Antoine et al., 2004m:90121**
Schepers, Jörg *see* **Fekete, Sándor P.**
Sciomachen, Anna (*with* Tanfani, Elena) The master bay plan problem: a solution method based on its connection to the three-dimensional bin packing problem. (English summary)
Sharma, Dushyant *see* **Ahuja, Ravindra K. et al., 2004b:90089**
Shin, Chan-Su *see* **Poon, Sheung-Hung et al., 2004m:90125**
Shioura, Akiyoshi *see* **Moriguchi, Satoko**
Shragowitz, Eugene *see* **Min, Manki et al., 2004h:90061**
Sibani, Paolo *see* **Gehring, Wolfgang et al.**
Sierksma, Gerard *see* **Ghosh, Diptesh, 2004j:90088**
Sigal, I. Kh. Parametrization of ε-approximate algorithms for solving some classes of large-scale discrete optimization problems. (Russian. Russian summary) **2004d:90074**
Sitters, René A. The minimum latency problem is NP-hard for weighted trees. (English summary)
Skriver, Anders J. V. *see* **Ehrgott, Matthias, 2004a:90071**
Soma, N. Y. *see* **de Castro Silva, J. L. et al., 2004c:90046**
Spille, Bianca (*with* Weismantel, Robert) A generalization of Edmonds' matching and matroid intersection algorithms. (English summary)
Srivastav, Anand Derandomization in combinatorial optimization. **2004c:90051**

Stacho, Ladislav *see* **Gargano, Luisa et al.**
Stepanov, R. G. *see* **Missarov, M. D., 2004i:90117**
Stephen, Tamon *see* **Barvinok, A. I., (2004a:00021)**
Stougie, Leen *see* **de Bontridder, K. M. J. et al., 2004k:90099**
Strijk, Tycho *see* **Poon, Sheung-Hung et al., 2004m:90125**
Sviridenko, M. I. A note on maximizing a submodular set function subject to a knapsack constraint. (English summary) **2004i:90119**
Tamura, Akihisa A coordinatewise domain scaling algorithm for M-convex function minimization. (English summary)
— *see also* **Murota, Kazuo, 2004m:90123**
Tan, Zhi Yi *see* **He, Yong[1] et al., 2004j:90089**
Tanfani, Elena *see* **Sciomachen, Anna**
Teng, Hong Fei *see* **Li, Guang Qiang**
Thorsteinsson, Erlendur S. (*with* Ottosson, Greger) Linear relaxations and reduced-cost based propagation of continuous variable subscripts. (English summary) **2004a:90075**
Tombuş, Önder (*with* Bilgiç, Taner) A column generation approach to the coalition formation problem in multi-agent systems. (English summary)
Toulouse, Michel (*with* Crainic, Teodor Gabriel; Sansó, Brunilde) Systemic behavior of cooperative search algorithms. (English summary) **2004k:90103**
Trick, Michael A. A dynamic programming approach for consistency and propagation for knapsack constraints. (English summary) **2004b:90096**
Triki, Chefi *see* **Paletta, Giuseppe**
Tripathy, J. P. *see* **Das, Chakradhar**
Tseveendorj, Ider *see* **Fortin, Dominique, 2004j:90087**
Turchin, Oleksandr Ya. Investigation of the convergence of an accelerated probabilistic modeling algorithm for solving a class of combinatorial optimization problems. (Ukrainian. English and Ukrainian summaries)
Uno, Takeaki *see* **Poon, Sheung-Hung et al., 2004m:90125**
Vaccaro, Ugo *see* **Gargano, Luisa et al.**
Vainshtein, A. D. *see* **Gutin, Gregory et al., 2004g:90092**
Vairaktarakis, George L. Simple algorithms for Gilmore-Gomory's traveling salesman and related problems. (English summary) **2004m:90126**
Vygen, Jens A note on Schrijver's submodular function minimization algorithm. (English summary) **2004d:90075**
Wakabayashi, Y. *see* **Miyazawa, F. K., 2004c:90050**
Wallace, Mark G. (*with* Caseau, Yves; Puget, Jean-Francois) Open perspectives. (English summary) (*see* **2004k:90007**)
Walshaw, Chris An exploration of multilevel combinatorial optimisation. (*see* **2004f:90010**)
Wasil, Edward *see* **Chandran, Bala et al., (2004b:90006)**
Weismantel, Robert *see* **Spille, Bianca**
Wen, Ue-Pyng *see* **Lin, Chi-Jen, 2004c:90048**
Whitney, Roger E. *see* **Gehring, Wolfgang et al.**
Woeginger, Gerhard J. *see* **Deĭneko, Vladimir G., 2004d:90070** *and* **Hurkens, Cor A. J., 2004i:90115**
Wolff, Alexander *see* **Poon, Sheung-Hung et al., 2004m:90125**
Wolsey, Laurence A. *see* **Loparic, Marko et al., 2004g:90095**
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Edelson, William (*with* Gargano, Michael L.) Leaf constrained minimal spanning trees solved by a genetic algorithm. (English summary) **2004f:05172**

(Eglese, Richard W.) *see* **Symposium: Combinatorial Optimisation**

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(Faigle, Ulrich) *see* **Workshop: Graphs and Combinatorial Optimization**

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de Farias, Ismael R., Jr. *see* **Richard, Jean-Philippe P. et al., 2004k:90075**

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Felici, Giovanni (*with* Gentile, Claudio) Zero-lifting for integer block structured problems. (English summary) **2004f:90086**

Feller, J. *see* **Mergenthaler, W. et al.**

Fernandes, Luis M. *see* **Costa, L. et al.**

Fernandez de la Vega, Wenceslao *see* **Bazgan, Cristina et al., 2004g:68195**

Figueiredo, Isabel M. N. *see* **Costa, L. et al.**

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Fremuth-Paeger, Christian (*with* Jungnickel, Dieter) An introduction to balanced network flows. (English summary) **2004b:05160**

Fréville, Arnaud The multidimensional 0-1 knapsack problem: an overview. (English summary) **2004k:90074**

Gallo, Giorgio *see* **Cappanera, Paola et al., 2004k:90055**

Gandibleux, Xavier *see* **Ehrgott, Matthias, (2004g:90007)**

Garen, Joost A genetic algorithm for tackling multiobjective job-shop scheduling problems. (English summary) (*see* **2004m:90003**)

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Grosso, Andrea *see* **Szwarc, Wlodzimierz et al.**

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Hoàng Tụy (*with* Nguyen Duc Nghia; Le Si Vinh) A discrete location problem. (English summary) **2004g:90059**

Hoogeveen, Johannes Adzer *see* **Sethi, Suresh P. et al.** *and* **van den Akker, Janna Magrietje et al.**

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Júdice, Joaquim J. *see* **Costa, L. et al.**

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Khachiyan, Leonid *see* **Boros, Endre et al., 2004m:05057**

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Kleywegt, Anton J. *see* **Verweij, Bram et al., 2004b:90075**

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Kullmann, Oliver Lean clause-sets: generalizations of minimally unsatisfiable clause-sets. (English summary) **2004i:68085**

(Kumar, Vipin) *see* **Parallel computing in numerical optimization**

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Laguna, Manuel *see* **Osorio, Maria A.**

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Larsen, Kim S. *see* **Boyar, Joan et al.**

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Leal, R. P. *see* **Costa, L. et al.**

Ledford, J. S. *see* **Mergenthaler, W. et al.**

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Le Si Vinh *see* **Hoàng Tụy et al., 2004g:90059**

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Pascoal, Marta M. B. *see* **Martins, Ernesto de Queirós Vieira, 2004k:05193**

Paulusma, Daniël *see* **Kern, Walter, 2004c:91014**

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Porkolab, Lorant *see* **Jansen, Klaus**
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Preissmann, Myriam *see* **Gasparyan, Grigor et al., 2004m:05061**
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Rodon, Aurélien (*with* Collette, Yann; Siarry, Patrick) A sequential multiobjective optimization tool designed to manage on line a set of varied algorithms. (English summary)
Rodrigues, Rosália *see* **de Almeida, Ana Maria, 2004g:90057**
Romero, Antonio *see* **Corberán, A. et al., 2004e:90145**
Ron, Dana *see* **Parnas, Michal et al., 2004m:68098**
Roughgarden, Tim *see* **Chudak, Fabián A. et al., (2004j:90010)**
Różycki, Rafał *see* **Józefowska, Joanna et al., 2004i:90041**
Rubinfeld, Ronitt *see* **Parnas, Michal et al., 2004m:68098**
Rubinstein, Shlomi *see* **Arkin, Esther M. et al.**
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Santini, Massimo *see* **Boldi, Paolo et al., 2004c:68165**
Saupe, Dietmar *see* **Hamzaoui, Raouf, 2004c:94015**
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Sebő, András *see* **Gasparyan, Grigor et al., 2004m:05061**
Semet, Frédéric *see* **Marcotte, Patrice et al., 2004m:90181**
Sen, Suvrajeet *see* **Lulli, Guglielmo, 2004j:90068**
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Shamardin, Yu. V. *see* **Dement'ev, V. T., 2004f:91096**
Shapiro, Alexander *see* **Verweij, Bram et al., 2004b:90075**
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Sriskandarajah, Chelliah *see* **Sethi, Suresh P. et al.**
Stauffer, Gautier *see* **Liebling, Thomas M. et al., 2004m:90233**
Steger, Angelika *see* **Scharbrodt, Mark et al.**
Steiner, George *see* **Cheng, Jinliang et al., 2004f:90042**
Stephen, Tamon *see* **Barvinok, A. I., 2004b:90077**
Stephenson, Paul A. *see* **Cheng, Jinliang et al., 2004f:90042**
Stork, Frederik *see* **Möhring, Rolf H. et al., 2004m:90051**
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Stratila, Dan *see* **Lozovanu, Dmitrii, 2004b:90013**
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Stuckey, Peter J. *see* **Harvey, Warwick, 2004a:90053**
Stuehler, L. J. *see* **Mergenthaler, W. et al.**
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Sviridenko, M. I. *see* **Queyranne, Maurice, (2004j:90010)** *and* **Arkin, Esther M. et al.**
Sysoev, Valery *see* **Dolgui, Alexandre, 2004h:90106**
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Taketomi, Shiro *see* **Iwama, Kazuo**
Talukdar, Sarosh *see* **Camponogara, Eduardo, 2004m:90023**
Talwar, Kunal *see* **Archer, Aaron et al., (2004a:68002)**
Tamura, Akihisa *see* **Murota, Kazuo, 2004h:91084**
Tang, Heng Yong *see* **Zhao, Chuan Li et al.**
Tardos, Éva *see* **Archer, Aaron et al., (2004a:68002)**
Tenfelde-Podehl, Dagmar *see* **Ehrgott, Matthias, 2004d:90081**
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(Toraldo, Gerardo) *see* **Parallel computing in numerical optimization**
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Toth, Paolo *see* **Martello, Silvano, 2004h:90033**
Toulouse, Sophie *see* **Monnot, Jérôme et al., 2004a:90107**
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Tuzhilin, Alekseĭ Avgustinovich *see* **Ivanov, A. O., 2004b:90129**
Uzsoy, Reha *see* **Demirkol, Ebru**
Vakhaniya, Nodari N. *see* **van den Akker, Janna Magrietje et al.**
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Van De Velde, Steef *see* **Sethi, Suresh P. et al.**
Van Hentenryck, Pascal *see* **Michel, Laurent, 2004m:68217** *and* **2004m:90072**
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Vigna, Sebastiano *see* **Boldi, Paolo et al., 2004c:68165**
Vigo, Daniele *see* **Martello, Silvano et al., 2004e:90052**
Wakabayashi, Y. *see* **Miyazawa, F. K., 2004d:68185**
Waligóra, Grzegorz *see* **Józefowska, Joanna et al., 2004i:90041**
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Wang, Michael Yingmeng *see* **Sethi, Suresh P. et al.**
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Węglarz, Jan *see* **Józefowska, Joanna et al., 2004i:90041**
Weismantel, Robert *see* **Haus, Utz-Uwe et al., 2004m:90092**
Weiss, Gideon *see* **Boudoukh, Tami et al., 2004f:90036**
Weisser, Horst *see* **Scharbrodt, Mark et al.**
Widmer, Marino *see* **Schneuwly, P.** *and* **Meta-heuristics in combinatorial optimization**
Williamson, David P. *see* **Archer, Aaron, (2004a:68002)** *and* **Chudak, Fabián A. et al., (2004j:90010)**
Woeginger, Gerhard J. *see* **Deĭneko, Vladimir G. et al., 2004g:90011**
Wolsey, Laurence A. *see* **Miller, Andrew J., 2004d:90042** *and* **Louveaux, Quentin, 2004m:90095**
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Wu, Chin-Chia *see* **Lee, Wen-Chiung et al., 2004k:90044**
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Yahyapour, Ramin *see* **Schwiegelshohn, Uwe**
Yamashita, Masafumi *see* **Asahiro, Yuichi et al., 2004g:90053**
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Yaskov, G. *see* **Stoyan, Yu. G. et al., 2004i:90073**
Yeo, Anders *see* **Gutin, Gregory, 2004a:68164**
Yepes, Víctor *see* **Medina, Josep R.**
Young, Gilbert H. *see* **Leung, Joseph Y.-T. et al., 2004e:90041**
Zabala, Paula *see* **Coll, Pablo et al., 2004g:05057**
Zaccour, Georges *see* **Jørgensen, Steffen, 2004a:91023**
Zelikovsky, Alexander *see* **Helvig, C. S. et al., 2004m:90175**
Žerovnik, Janez *see* **Zmazek, Blaž, 2004m:05257**
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90C29 Multi-objective and goal programming

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Alade, Julius A. *see* **Sharma, Dinesh K. et al.**
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Ansari, Qamrul Hasan (*with* Yao, Jen Chih) Generalized vector equilibrium problems. (English summary) **2004e:90102**
Antczak, Tadeusz A new approach to multiobjective programming with a modified objective function. (English summary) **2004h:90064**
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Arakawa, Masao *see* **Nakayama, Hirotaka et al.**, (**2004g:90007**)
Arora, Hitesh *see* **Bhatia, Davinder**
Arora, J. S. *see* **Marler, R. T.**
Azcárate Camio, Cristina *see* **Alberto, I. et al.**, (**2004h:00021**)
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Bhatia, Davinder (*with* Mehra, Aparna) Approximate saddle point and duality for multiobjective n-set optimization. (English summary) **2004e:90103**
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Billaut, Jean-Charles *see* **T'kindt, Vincent**, **2004m:90135**
Bleuler, Stefan *see* **Zitzler, Eckart et al.**, (**2004m:90003**)
Blouin, Vincent Y. *see* **Li, Yusheng et al.**, **2004e:90110**
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Buchanan, John T. (*with* Gardiner, Lorraine) A comparison of two reference point methods in multiple objective mathematical programming. (English summary) **2004c:90055**
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Chaabane, Djamal *see* **Abbas, Moncef**, **2004e:90101**
Chandra, Suresh *see* **Bector, C. R. et al.**, **2004c:90052** *and* **2004c:90053**
Chen, Guang Ya *see* **Li, Shengjie et al.**, **2004e:90109**; **2004j:90102** *and* **Hou, Shui Hung et al.**, **2004k:90110**
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Chowdhury, Mohammad S. R. (*with* Tarafdar, Enayet) Vector variational inequalities, multi-objective optimizations, Pareto optimality and applications. (English summary) **2004g:90098**
Chueh, Chung-Huei *see* **Luh, Guan-Chun et al.**
Churkina, S. Yu. (*with* Zabrodin, Yu. D.) Target level method in linear multi-criterion problems. (English summary) **2004f:90112**
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Collette, Yann *see* **Rodon, Aurélien et al.**
Corne, David *see* **Knowles, Joshua**, (**2004m:90003**)
Craven, B. D. Vector generalized index. (English summary) **2004e:90104**
Crema, Alejandro *see* **Sylva, John**
Davar, Sonia *see* **Lalitha, C. S.**, **2004f:90119**
Deng, Sien Coercivity properties and well-posedness in vector optimization. (English summary) **2004j:90095**
Đinh Thế Lục *see* **Cambini, Alberto et al.**, **2004d:90078**; **2004f:90111** *and* **Nguyen Thi Bach Kim**, **2004e:90115**
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— Radial epiderivatives and asymptotic functions in nonconvex vector optimization. (English summary) **2004f:90115**
— Semistrictly quasiconvex mappings and non-convex vector optimization. (English summary) **2004k:90106**
Flores-Bazán, Fernando *see* **Flores Bazán, Fabián**, **2004a:90079**
Forbes, J. Fraser *see* **Kozeratskaya, L. N. et al.**, **2004k:90113**
Foroughi, A. A. *see* **Jahanshahloo, Gholam Reza**, **2004j:90097**
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Gardiner, Lorraine *see* **Buchanan, John T., 2004c:90055**

Ginchev, Ivan Higher order optimality conditions in nonsmooth vector optimization. (English summary) **2004f:90116**

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Goebel, R. G. *see* **Kozeratskaya, L. N. et al., 2004k:90113**

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Goodrich, R. K. *see* **Woo, L. W., 2004c:90063**

Göpfert, Alfred *see* **Tammer, Christiane, 2004k:90117**

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Guerriero, Francesca *see* **Granat, Janusz, 2004e:90107**

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Isac, George *see* **Grecksch, W. et al., 2004a:90081**

Ismail-Yahaya, Amir *see* **Messac, Achille et al.**

Iusem, Alfredo N. *see* **Graña Drummond, L. M. et al., 2004e:90106** *and* **2004g:90099**

Jahanshahloo, Gholam Reza (*with* Foroughi, A. A.) Finding a weights-restricted efficient (extreme) point and using it for solving MOLP problems. (English summary) **2004j:90097**

Jahn, Johannes *see* **Carosi, Laura et al., 2004d:90079**

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— Multiobjective variational programming under generalized vector variational type I invexity. (English summary) **2004j:90099**

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Kishore, Newal *see* **Jayswal, Anurag**

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Kovalenko, Kirill E. *see* **Emelichev, Vladimir A., 2004j:90096**

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Kresta, J. V. *see* **Kozeratskaya, L. N. et al., 2004k:90113**

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Krishan, Sonam *see* **Khaliq, Abdul, 2004i:90121**

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Lai, Kin Keung *see* **Mishra, Shashi K. et al., 2004k:90114**

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Liu, Ting Zhan *see* **Li, Zhong Fan et al.**

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Luo, Xue Bo *see* **Jia, Ji Hong**

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Mateo, P. M. *see* **Alberto, I. et al., (2004h:00021)**

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Olmedo, Rafael *see* **Fernández-González, Eduardo**

Pappalardo, Massimo *see* **Mastroeni, Giandomenico, 2004j:90103**

Pardalos, Panos M. *see* **Liang, Zhi-An et al., 2004g:90102**

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Prakhovnik, A. *see* **Ekel, P. Ya. et al.**
Preda, Vasile *see* **Stancu-Minasian, Ioan M., 2004e:90157**
Raciti, Fabio *see* **Khan, Akhtar Ali, 2004g:90137**
Revalski, Julian P. *see* **Lucchetti, Roberto et al., 2004g:58010**
Riahi, Hassan *see* **Göpfert, Alfred et al., 2004h:90001**
Romero, Carlos *see* **González-Pachón, Jacinto**
Rosa, Mário S. *see* **Paixão, José M. P. et al., 2004g:90124**
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Tammer, Christiane *see* **Göpfert, Alfred et al., 2004h:90001**

Tanaka, Tamaki *see* **Higuchi, Masakazu[2], 2004f:91009**

Tassa, Tamir *see* **Epstein, Leah, 2004e:90055**

Teghem, Jacques *see* **Tuyttens, Daniel et al., (2004m:90003)**

Teo, Kok Lay *see* **Yang, Xin Min et al., 2004e:90091**

Théra, Michel *see* **Lucchetti, Roberto et al., 2004g:58010**

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Thompson, Heven Bevan *see* **Huang, Nan Jing et al., 2004i:90188**

Tijs, Stef *see* **Norde, Henk et al., 2004m:49074**

(T'kindt, Vincent) *see* **Metaheuristics for multiobjective optimisation, 2004m:90003**

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90C30 Nonlinear programming

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Lee, Hungu *see* **Hong, Young-Seok et al.**
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Li, Cui Hua *see* **Shi, Wen Pu et al.**
Li, Dong Hui[1] *see* **Yang, Yu Fei et al., 2004j:90118** *and* **Tong, Xiaojiao, 2004k:90126**
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Lopes, Véra Lucia Rocha *see* **Diniz-Ehrhardt, Maria A. et al., 2004k:90123**
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Mangasarian, Olvi L. *see* **Lee, Yuh Jye et al., 2004g:90108**
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Martínez, J. A. *see* **Casado, L. G. et al., 2004a:90086**
Martínez, José Mario *see* **Burdakov, Oleg P. et al., 2004a:90085**; **Dai, Yu-Hong et al., 2004e:90124** *and* **Diniz-Ehrhardt, Maria A. et al., 2004k:90123**
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Neralić, L. *see* **Jess, A. et al., 2004c:90067**
Neumaier, Arnold *see* **Huyer, Waltraud, 2004g:90106**
Ng, Chi-Kong *see* **Zhang, Lian Sheng et al., 2004j:90120**
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Peng, Ye Hui *see* **Yao, Sheng Bao et al., 2004g:90112**
Pereira, E. C. (*with* Secchi, A. R.) Algorithm for solution of convex MINLP problems. (English summary) **2004f:90130**
Perunova, Yu. N. *see* **Zavriev, S. K., 2004i:90143**
Petrova, Svetozara I. *see* **Hoppe, Ronald H. W., 2004h:90070**
Pham Dinh Tao *see* **Le Thi Hoai An et al., 2004g:90107** *and* **2004j:90114**
Pilotta, Elvio A. *see* **Burdakov, Oleg P. et al., 2004a:90085**
Pinar, Mustafa Çelebi *see* **Altay-Salih, Aslıhan et al., 2004m:90138**
Pizzuti, Clara *see* **Kvasov, D. E. et al., 2004d:90096**
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Romanova, T. E. *see* **Stoyan, Yu. G. et al.**
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Rossetto, J. J. *see* **Silva, B. P. B. et al.**
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Secchi, A. R. *see* **Pereira, E. C., 2004f:90130**
Sergeev, Yaroslav D. *see* **Casado, L. G. et al., 2004a:90086** *and* **Kvasov, D. E. et al., 2004d:90096**
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Shanno, David F. *see* **Benson, Hande Y. et al., 2004i:90131** *and* **2004k:90121**
Shen, Pei Ping (*with* Zhang, Ke Cun) An interval slope method for global minimizers of multimodal functions of several variables. (Chinese. English summary) **2004f:90132**
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Solodov, M. V. On approximations with finite precision in bundle methods for nonsmooth optimization. (English summary) **2004m:90148**
Sottosanto, G. N. *see* **Maciel, Maria Cristina**
Stein, Oliver *see* **Jess, A. et al., 2004c:90067**
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Vanderbei, Robert J. *see* **Benson, Hande Y. et al.**, **2004i:90131** *and* **2004k:90121**
Vasil′ev, F. P. *see* **Antipin, A. S. et al.**, **2004e:90121**
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Wächter, Andreas *see* **Fletcher, Roger et al.**, **2004b:90105**
Wang, Chang Yu *see* **Yu, Zhen Sheng et al.**, **2004j:90119**
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Wang, Yue-Li *see* **Chow, Ta-Tung et al.**
Watson, G. A. Decomposition and descent directions for norms. (English summary) **2004i:90141**
Wolberg, W. H. *see* **Lee, Yuh Jye et al.**, **2004g:90108**
Wood, G. R. *see* **Bulger, D. W. et al.**, **2004c:90065**
Wu, Dong Hua *see* **Li, Shanliang et al.**, **2004d:90097** *and* **Yu, Wu Yang et al.**
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Xia, Zun Quan *see* **Pang, Li Ping et al.**, **2004i:90137**
Xu, Cai Jun *see* **Li, Shuang et al.**
Xu, Cheng Xian *see* **Sun, Qing Ying et al.**, **2004j:90116**
Xu, Da Chuan *see* **Dai, Yu-Hong**, **2004b:90102**
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Yao, Xin *see* **Runarsson, Thomas**, **(2004f:90008)**
Ye, Liu Qing *see* **Sun, Qing Ying et al.**, **2004j:90116**
Yearwood, John *see* **Bagirov, Adil M. et al.**
Yildirim, Necmettin *see* **Subaşi, Murat et al.**
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Yuan, Ya Xiang Linear systems associated with numerical methods for constrained optimization. (English summary) **2004m:90152**
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Zhuo, Xin-jian *see* **Zhang, Xiang Sun et al.**, **2004g:90113**
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Bewley, Thomas R. *see* **Protas, Bartosz et al.**, **2004j:76118**
Bogle, Ian David Lockhart *see* **Žilinskas, Julius**, **2004j:65060**
Bolton, Hermanus P. J. *see* **Snyman, J. A. et al.**

Bouhtou, Mustapha *see* **Nguyen, Thanh Quang et al.**, (**2004h:90005**)
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Byatt, D. (*with* Coope, I. D.; Price, Christopher J.) Performance of various BFGS implementations with limited precision second-order information. (English summary) **2004m:90227**
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Carvalho, L. M. *see* **Lavor, C. et al.**
Castellanos Noda, Longina *see* **Gómez López, Susana et al.**, **2004d:90137**
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Combettes, Patrick L. *see* **Bauschke, Heinz H.**, **2004f:41040**
Coope, I. D. *see* **Byatt, D. et al.**, **2004m:90227**
Cui, Zaiqin *see* **Feng, Guosheng**, **2004k:90094**
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Demyanov, A. V. A discrete Chebyshev approximation problem by means of several polynomials. (English summary) **2004b:41039**
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Famularo, Domenico *see* **Sergeev, Yaroslav D. et al.**, **2004d:90066**
Fang, Ya Ping *see* **Han, Ze**, **2004b:49019**
Fei, Pu Sheng *see* **Chen, Zhong**[2]
Feng, Guosheng (*with* Cui, Zaiqin) Combination of trust region method and simplicial decomposition for convex constrained nonlinear optimization. (English summary) **2004k:90094**
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Fukushima, Masao F. *see* **Yamashita, Nobuo et al.**, **2004m:90158**
Gadhi, N. Sufficient second order optimality conditions for C^1 multiobjective optimization problems. (English summary) **2004k:90107**
Galligani, Emanuele *see* **Durazzi, Carla**, **2004i:49066**
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Gao, Zi You (*with* Lam, W. H. K.; Wong, Sze-Chun; Yang, Hai[1]) The convergence of equilibrium algorithms with non-monotone line search technique. (English summary) **2004h:90092**
Garcia, Manuel V. P. (*with* Humes, Carlos, Jr.; Stern, J. M.) Generalized line criterion for Gauss-Seidel method. (English summary) **2004f:65035**
Gill, Philip E. *see* **Forsgren, Anders et al.**, **2004c:90098**
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Gonçalves, M. B. *see* **de Vicente, A.**
Gong, Hua Rong *see* **Shi, Wen Pu et al.**
Goux, Jean-Pierre *see* **Morales Pérez, J. L. et al.**, **2004m:90217**
Govil, Misha G. *see* **Suneja, S. K. et al.**, **2004k:90098**
Granvilliers, Laurent *see* **Ceberio, Martine**, **2004a:65060**
Groenwold, Albert A. *see* **Snyman, J. A. et al.**
Hagen, Greg *see* **Protas, Bartosz et al.**, **2004j:76118**
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Hewko, Jared *see* **Hodgson, Michael John**
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Jarre, Florian Some aspects of nonlinear semidefinite programming. (English summary) **2004j:90076**
Jeyakumar, V. Characterizing set containments involving infinite convex constraints and reverse-convex constraints. (English summary) **2004f:90104**
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Jin, Yi Hui *see* **Jiang, Yong Heng et al.**
Juel, Henrik *see* **Brimberg, Jack et al.**, **2004m:90076**
Kakhki, H. Taghizadeh *see* **Brimberg, Jack et al.**, **2004k:90065**
Kang, Byung Soo *see* **Park, G. J.**, **2004h:49065**
Kang, Li-shan *see* **Zou, Xiufen et al.**
Ke, Miao-Chen *see* **Chen, Tsu-Fen**, **2004f:65081**
Kersey, Scott N. On the problems of smoothing and near-interpolation. (English summary) **2004e:41002**
Kim, Sang Wook[1] *see* **Yun, Jae Heon**, **2004m:65044**
Kim, Tae-Hwa *see* **Xu, Hong-Kun**, **2004m:49040**
Kirichenko, N. F. *see* **Bublik, S. B.**, **2004j:49053**
Klassen, L. *see* **Kröner, Dietmar et al.**, (**2004d:00011**)
Klimmek, A. *see* **Kröner, Dietmar et al.**, (**2004d:00011**)
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Konnov, Igor V. On lexicographic vector equilibrium problems. (English summary) **2004j:90100**
Kovalëv, M. Ya. *see* **Cheng, T. C. Edwin**
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Kropat, E. (*with* Rößler, Andreas; Pickl, Stefan; Weber, Gerhard-Wilhelm) On theoretical and practical relations between discrete optimization and nonlinear optimization. (English summary) **2004f:90089**
Krstić, Miroslav *see* **Ariyur, Kartik B.**, **2004h:93001**
Kuk, Hun *see* **Tanino, Tetsuzo**, **2004i:90130**
Kurganov, Dmitri On the numerical solution of a minimization problem in modeling stratum systems. (Russian. Russian summary)
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Lagarias, Jeffrey C. *see* **Krasikov, Ilia**, **2004i:11020**
Lalitha, C. S. *see* **Suneja, S. K. et al.**, **2004k:90098**
Lam, W. H. K. *see* **Gao, Zi You et al.**, **2004h:90092**
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Lê Dũng Mu'u *see* **Nguyen Van Quy**[2]

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Liu, Hongwei[2] *see* **Wang, Xin Hui et al., 2004f:90103**
Liu, San Yang *see* **Wang, Xin Hui et al., 2004f:90103**
Liu, Shuqin *see* **Dong, Jichang et al., 2004e:90167**
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Nie, Pu Yan Composite-step like filter methods for equality constraint problems. (English summary) **2004f:90174**
Nocedal, Jorge *see* **Morales Pérez, J. L. et al., 2004m:90217**
Nolle, Lars *see* **Zelinka, Ivan et al., (2004c:62006)**
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Obuchowicz, Andrzej Multidimensional mutations in evolutionary algorithms based on real-valued representation. (English summary)
Ogura, Nobuhiko *see* **Yamada, Isao et al., 2004a:90064**
Osawa, Keikichi *see* **Miyake, Chikako et al., 2004k:90071**
Pappalardo, Massimo *see* **Mastroeni, Giandomenico, 2004j:90103**
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Potra, Florian A. *see* **Das, I., 2004h:93060**
Powell, M. J. D. On trust region methods for unconstrained minimization without derivatives. (English summary) **2004i:90193**
Pradhan, P. K. *see* **Das, Chakradhar et al., 2004e:90082**
Prempain, E. *see* **He, S. et al.**
Price, Christopher J. *see* **Byatt, D. et al., 2004m:90227**
Priemer, Roland *see* **Li, Chunshien et al.**
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Puerto Albandoz, Justo *see* **Hinojosa, Y., 2004g:90063**
Pugliese, Paolo *see* **Sergeev, Yaroslav D. et al., 2004d:90066**
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Quevedo, Joseba *see* **Puig, Vicenç et al., 2004f:65213**
Rao, Giuseppe Data fusion and nonlinear optimization. (Italian)
Raydan, Marcos *see* **La Cruz, William, 2004i:65046**
Recchioni, Maria Cristina A path following method for box-constrained multiobjective optimization with applications to goal programming problems. (English summary) **2004f:90123**
Reich, Simeon *see* **Aizicovici, Sergiu et al., 2004m:90207**
(ReVelle, Charles S.) *see* **Facility location modelling: papers in honor of Kenneth E. Rosing**
(Rosing, Kenneth E.) *see* **Facility location modelling: papers in honor of Kenneth E. Rosing**
Rößler, Andreas *see* **Kropat, E. et al., 2004f:90089**
Rubinov, Aleksandr M. *see* **Bagirov, Adil M. et al., 2004e:90080**
Ruggiero, Valeria *see* **Durazzi, Carla, 2004m:90215**
Ryoo, Hong-Seo (*with* Sahinidis, Nikolaos V.) Global optimization of multiplicative programs. (English summary) **2004c:90108**
Sadygov, M. A. On necessary conditions for the extremum in mathematical programming problems. (Russian. English and Azerbaijani summaries)
Sahinidis, Nikolaos V. *see* **Tawarmalani, Mohit, 2004a:90001** *and* **Ryoo, Hong-Seo, 2004c:90108**
Saludes i Closa, Jordi *see* **Puig, Vicenç et al., 2004f:65213**
de Sampaio, Raimundo J. B. *see* **Sun, Wen Yu et al., 2004e:90090**
Schmidt, Martin[3] *see* **Michalewicz, Zbigniew, (2004f:90008)**
Schöbel, Anita *see* **Brimberg, Jack et al., 2004m:90076**
Segars, R., Jr. *see* **Dearing, P. M., 2004b:90057** *and* **2004b:90058**
Senne, Edson L. F. *see* **Lorena, Luiz A. N., 2004m:90071**
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Solano, Julio *see* **Gómez López, Susana et al., 2004d:90137**
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Sukhorukova, N. V. *see* **Bagirov, Adil M. et al., 2004e:90080**
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Svaiter, B. F. *see* **Pennanen, Teemu, 2004c:49042** *and* **Iusem, Alfredo N. et al., 2004h:90052**
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Teo, Kok Lay *see* **Wang, Song[1] et al., 2004f:90172**

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Toivanen, Jari *see* **Miettinen, Kaisa et al., 2004h:90103**
Torczon, Virginia J. *see* **Kolda, Tamara G. et al., 2004m:90228** *and* **2004m:90229**
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Urban, Thomas J. *see* **Tits, André L. et al., 2004g:90148**
Vanderbei, Robert J. *see* **Benson, Hande Y., 2004e:90164**
Vasil'ev, F. P. *see* **Antipin, A. S., 2004b:90155**
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Vicente, Luis N. *see* **Ulbrich, Michael et al., 2004m:90218**
Voisei, Mircea Dan First-order necessary conditions of optimality for nonlinear programming problems associated with linear operators. (English summary) **2004j:90150**
Vondrák, Vít *see* **Dostál, Zdeněk et al., (2004e:65003)**
Vrahatis, Michael N. *see* **Parsopoulos, K. E.**
Wächter, Andreas *see* **Tits, André L. et al., 2004g:90148**
Walster, G. William *see* **Hansen, Eldon, 2004j:90004**
Waltz, Richard A. *see* **Morales Pérez, J. L. et al., 2004m:90217**
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Wesolowsky, George O. *see* **Brimberg, Jack et al., 2004k:90065**
Williams, Stephen A. *see* **Drucker, Daniel S., 2004m:53004**
Wong, Sze-Chun *see* **Gao, Zi You et al., 2004h:90092**
Wright, Margaret H. *see* **Forsgren, Anders et al., 2004c:90098**
Wu, Qing-He *see* **He, S. et al.**
Wu, Soon-Yi *see* **Qi, Liqun et al., 2004g:90119**
Wu, Zhi Jian[2] *see* **Zou, Xiufen et al.**
Wu, Zhi You *see* **Bai, Fu-sheng et al.**
Xia, Zun Quan *see* **Zhang, Hongwei et al., 2004m:49053**
Xu, Cheng Xian *see* **Zhao, Ying Liang**
Xu, Hong-Kun (*with* Kim, Tae-Hwa) Convergence of hybrid steepest-descent methods for variational inequalities. (English summary) **2004m:49040**
Xu, Jianhong *see* **Han, Lixing et al., 2004a:90119**
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Yang, Xiao Qi On the gap functions of prevariational inequalities. (English summary) **2004a:49015**
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Yang, Xun Nian *see* **Luo, Wei Lan et al.**
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Zhang, Li-Wei *see* **Zhang, Hongwei et al., 2004m:49053**
Zhang, Lian Sheng *see* **Bai, Fu-sheng et al.**
Zhang, Luzou *see* **Wang, Yulin et al., 2004h:65022**
Zhang, Xiang Sun *see* **Zhang, Ju Liang et al., 2004h:90101** *and* **2004k:90169**
Zhang, Yin[1] (*with* Gao, Liyan) On numerical solution of the maximum volume ellipsoid problem. (English summary) **2004h:90056**
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Zhou, Wei *see* **Jiang, Yong Heng et al.**
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Zhuo, Xin-jian *see* **Zhang, Ju Liang et al., 2004k:90169**
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90C31 Sensitivity, stability, parametric optimization

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Cánovas, María J. (*with* López, Marco Antonio; Parra, Juan) Upper semicontinuity of the feasible set mapping for linear inequality systems. (English summary) **2004f:90139**
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Ciligot-Travain, Marc (*with* Traore, Sado) On subgradients of spectral functions. (English summary) **2004i:90147**
Dai, Lian-Kui *see* **Yu, Li Li**
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Jaćimović, Milojica (*with* Krnić, Izedin) On wellposedness of quadratic function minimization problem on intersection of two ellipsoids. (English summary) **2004a:90093**
Klatte, Diethard *see* **Fusek, Peter et al.**, 2004b:90117
Korobkov, Mikhail On stability of a class of convex functions. (English summary) (*see* 2004i:00014)
Krnić, Izedin *see* **Jaćimović, Milojica**, 2004a:90093
Kummer, Bernd *see* **Fusek, Peter et al.**, 2004b:90117
Larriqueta, Mercedes *see* **Goberna, Miguel A. et al.**, 2004c:90070
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López, Marco Antonio *see* **Cánovas, María J. et al.**, 2004f:90139 *and* **Gaya, Verónica E. et al.**, 2004k:90128
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Scalzo, Vincenzo *see* **Morgan, Jacqueline**, 2004k:90130
Scarsini, Marco *see* **Müller, Alfred[2]**, 2004b:90118
Shapiro, Alexander Sensitivity analysis of generalized equations. **2004c:90071**
— On a class of nonsmooth composite functions. (English summary) **2004h:90076**
Sun, De Feng *see* **Pang, Jong-Shi et al.**, 2004a:90094
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Traore, Sado *see* **Ciligot-Travain, Marc**, 2004i:90147
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Wets, Roger J.-B. Lipschitz continuity of inf-projections. (English summary) **2004d:90105**
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Zheng, Xi Yin *see* **Ng, Kung Fu**, 2004i:90149

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Cao, Qidong *see* **Bai, Xue[3] et al.**, 2004c:90015
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Gambardella, Luca Maria *see* **Montemanni, R.**, 2004m:90183
Gao, Xing Hui *see* **Ma, Le Rong**
Gauthier, Serge (*with* Pichard, Karine) On metric regularity in metric spaces. (English summary) **2004b:49037**
Geoffroy, Michel H. (*with* Lassonde, Marc) Stability of slopes and subdifferentials. (English summary) **2004e:49025**
Gerdts, Matthias (*with* Büskens, Christof) Consistent initialization of sensitivity matrices for a class of parametric DAE systems. (English summary) **2004b:65105**
Goberna, Miguel A. (*with* López, Marco Antonio; Todorov, Maxim I.) A generic result in linear semi-infinite optimization. (English summary) **2004e:90139**
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Goldfarb, D. (*with* Iyengar, G.) Robust convex quadratically constrained programs. (English summary) **2004g:90072**

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Granger, Julien (*with* Krishnamurthy, Ananth; Robinson, Stephen M.) Approximation and optimization for stochastic networks. (English summary) (*see* **2004j:90007**)
Griesse, Roland (*with* Walther, Andrea) Parametric sensitivities for optimal control problems using automatic differentiation. (English summary) **2004i:93045**
Gröwe-Kuska, N. *see* **Dupačová, Jitka et al., 2004c:90027**
Gugat, Martin (*with* Leugering, G.) Solutions of L^p-norm-minimal control problems for the wave equation. (English summary) **2004i:49057**
Guinand, Frédéric (*with* Moukrim, Aziz; Sanlaville, Eric) Sensitivity analysis of tree scheduling on two machines with communication delays. (English summary) **2004m:68016**
Guslitzer, E. *see* **Ben-Tal, Aharon et al., 2004j:90057**
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He, Zhong-Quan *see* **Ding, Ke et al., 2004h:49009**
Helbing, Dirk *see* **Nagatani, Takashi**
Hoàng Xuân Phú Strictly and roughly convexlike functions. (English summary) **2004d:90062**
Homem-de-Mello, Tito *see* **Shapiro, Alexander et al., 2004b:90074**
Hosseinzadeh Lotfi, F. *see* **Jahanshahloo, Gholam Reza et al.**
Hu, Yu Da *see* **Zhou, Xuan Wei**
Hung, Nguyen Xuan *see* **Nguyễn Đông Yên, 2004j:90128**
Iusem, Alfredo N. *see* **Graña Drummond, L. M., 2004b:90159**
Ivanov, Vsevolod Ivanov Limit extremal problems. (English summary) **2004k:90096**
Iyengar, G. *see* **Goldfarb, D., 2004g:90072**
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Jansen, M. J. M. *see* **Vermeulen, A. J. et al., 2004m:91017**
Jarre, Florian *see* **Freund, Roland W., 2004h:90046**
Jessop, Alan Sensitivity and robustness in selection problems. (English summary)
Jofré, Alejandro (*with* Wets, Roger J.-B.) Continuity properties of Walras equilibrium points. (English summary) **2004j:49044**
Jornet, Valentín *see* **Goberna, Miguel A. et al., 2004b:90126**
Kang, Shin Min *see* **Nie, Hongzhen et al., 2004k:49024** *and* **Liu, Ze Qing, 2004m:49033**
Kim, Joocheol *see* **Shapiro, Alexander et al., 2004b:90074**
Kolmykov, V. A. Minimization and maximization of quadratic forms with strong diagonal predominance. Super-concavity and discrete oscillations. (Russian. Russian summary) **2004c:90028**
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Kostyukova, O. I. The method of the continuation of the solution with respect to the parameter for a family of semi-infinite programming problems. (Russian. English and Russian summaries) **2004g:90118**
Kovalenko, Kirill E. *see* **Emelichev, Vladimir A., 2004j:90096**
Krichko, V. N. *see* **Emelichev, Vladimir A. et al., 2004e:90105**
Krishnamurthy, Ananth *see* **Granger, Julien et al., (2004j:90007)**
Kuk, Hun *see* **Tanino, Tetsuzo, 2004i:90130**
Kuzyurin, N. N. *see* **Asratyan, A. S., 2004i:90200**
Lachout, Petr Epi-convergence and lower and epi-upper semicontinuous approximations in distribution. (English summary) **2004k:49030**
— *see also* **Vogel, Silvia, 2004f:90095** *and* **2004g:90070**
Lassonde, Marc *see* **Geoffroy, Michel H., 2004e:49025**
Lee, Gue Myung (*with* Nguyen Nang Tam; Nguyễn Đông Yên) Some recent results on quadratic programs and affine variational inequality problems under linear perturbations. (English summary)
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Leugering, G. *see* **Gugat, Martin, 2004i:49057**
Levit, Vadim E. (*with* Mandrescu, Eugen) Local maximum stable sets in bipartite graphs with uniquely restricted maximum matchings. (English summary) **2004k:05156**
Lewis, Adrian S. *see* **Burke, J. V. et al., 2004i:49030**
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Lin, Yi-xun *see* **Burkard, Rainer E. et al., 2004k:90140**
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Liu, Ze Qing (*with* Kang, Shin Min) Convergence and stability of perturbed three-step iterative algorithm for completely generalized nonlinear quasivariational inequalities. (English summary) **2004m:49033**
Long, Ngo Van (*with* Shimomura, Koji) A new proof of the maximum principle. (English summary) **2004g:49036**
López, Marco Antonio *see* **Cánovas, María J. et al., 2004c:49037** *and* **Goberna, Miguel A. et al., 2004e:90139**
Lucchetti, Roberto Pososity of ill posed problems in some optimization classes. (English summary) **2004k:49068**
Luderer, Bernd (*with* Minchenko, Leonid I.; Satsura, Tatyana) ★ Multivalued analysis and nonlinear programming problems with perturbations. **2004b:49001**
Luo, Qun Generic stability of Nash equilibria for set-valued mappings. (Chinese. English and Chinese summaries) **2004j:91033**
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Ma, Le Rong (*with* Gao, Xing Hui) Sensitivity analysis for a system of parametric variational inclusions. (Chinese. English and Chinese summaries)
Mandrescu, Eugen *see* **Levit, Vadim E., 2004k:05156**
Mani, V. *see* **Suresh, S. et al., 2004i:90059**
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Meyn, Sean P. *see* **Chen, Mike et al., 2004j:90016**
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Molina Vila, Mariola *see* **Goberna, Miguel A. et al., 2004b:90126**
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Morari, Manfred *see* **Borrelli, Francesco et al., 2004i:90075**
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— *see also* **Del Prete, Imma et al., 2004c:49061**
Moukrim, Aziz *see* **Guinand, Frédéric et al., 2004m:68016**
Nagatani, Takashi (*with* Helbing, Dirk) Stability analysis and stabilization strategies for linear supply chains. (English summary)
Nemirovskii, Arkadii *see* **Ben-Tal, Aharon et al., 2004j:90057** *and* **2004j:90075**
Ng, Kung Fu (*with* Zheng, Xi Yin) Global weak sharp minima on Banach spaces. (English summary) **2004g:49024**
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Nguyen Nang Tam *see* **Lee, Gue Myung et al.**
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Nikulin, Yu. V. *see* **Emelichev, Vladimir A. et al., 2004e:90105**
Omkar, S. N. *see* **Suresh, S. et al., 2004i:90059**
Ortega, Eva-Maria *see* **Cánovas, María J. et al., 2004c:49037**
Overton, M. L. *see* **Burke, J. V. et al., 2004i:49030**
Owens, David H. (*with* Feng, Kairui) Parameter optimization in iterative learning control. (English summary) **2004d:93146**
Pandit, Charuhas *see* **Chen, Mike et al., 2004j:90016**
Papi, Marco (*with* Sbaraglia, Simone) Regularity properties of constrained set-valued mappings. (English summary) **2004c:49041**
Parra, Juan *see* **Cánovas, María J. et al., 2004c:49037**
Peña, Javier F. A characterization of the distance to infeasibility under block-structured perturbations. (English summary) **2004f:15013**
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Perkins, J. D. *see* **Sakizlis, V. et al., (2004h:00015)**
Pichard, Karine *see* **Gauthier, Serge, 2004b:49037**
Pistikopoulos, Efstratios N. *see* **Sakizlis, V. et al., (2004h:00015)**
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Prudnikov, I. M. Rules for constructing lower convex approximations. (Russian. Russian summary) **2004j:90149**
Raucci, Roberto *see* **Morgan, Jacqueline, 2004h:49046**
Razavyan, S. *see* **Jahanshahloo, Gholam Reza et al.**
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Robinson, Stephen M. *see* **Granger, Julien et al., (2004j:90007)**
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Römisch, Werner Stability of stochastic programming problems. (English summary)
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Rybkin, V. A. (*with* Yazenin, A. V.) Possibilistic regularization of linear programming problems. (Russian. Russian summary) **2004h:90032**
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Sanlaville, Eric *see* **Guinand, Frédéric et al., 2004m:68016**
Satsura, Tatyana *see* **Luderer, Bernd et al., 2004b:49001**
Sbaraglia, Simone *see* **Papi, Marco, 2004c:49041**
Schultz, Rüdiger *see* **Riis, Morten, 2004a:90056**

Shapiro, Alexander (*with* Homem-de-Mello, Tito; Kim, Joocheol) Conditioning of convex piecewise linear stochastic programs. (English summary) **2004b:90074**
Shimomura, Koji *see* **Long, Ngo Van, 2004g:49036**
Shoja, Nagi *see* **Jahanshahloo, Gholam Reza et al.**
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Solan, Eilon Continuity of the value of competitive Markov decision processes. (English summary) **2004k:91038**
Solodov, M. V. *see* **Izmailov, Alekseĭ Feridovich, 2004b:90147**
Still, Georg Solving generalized semi-infinite programs by reduction to simpler problems. (English summary) **2004m:90160**
Suresh, S. (*with* Mani, V.; Omkar, S. N.) The effect of start-up delays in scheduling divisible loads on bus networks: an alternate approach. (English summary) **2004i:90059**
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Tanino, Tetsuzo (*with* Kuk, Hun) Nonlinear multiobjective programming. (English summary) **2004i:90130**
Tian, Yu Ping[1] *see* **Yang, Hong Yong**
Todorov, Maxim I. *see* **Goberna, Miguel A. et al., 2004e:90139**
Tohidi, Ghasem *see* **Jahanshahloo, Gholam Reza et al.**
Tsurkov, Vladimir *see* **Litvinchev, I. S., 2004i:90004**
Vasil'ev, F. P. *see* **Antipin, A. S., 2004b:90155***and* **2004k:90157**
Vera, Jorge R. *see* **Freund, Robert M., 2004j:90159**
Vermeulen, A. J. (*with* Jansen, M. J. M.; Potters, J. A. M.) Making solutions invariant. (English summary) **2004m:91017**
Vicente, Luis N. Space mapping: models, sensitivities, and trust-regions methods. (English summary) **2004h:90072**
Viher, Radimir Interval method for interval linear program. (English summary) **2004f:90084**
Vogel, Silvia (*with* Lachout, Petr) On continuous convergence and epi-convergence of random functions. I. Theory and relations. (English summary) **2004g:90070**
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Walther, Andrea *see* **Griesse, Roland, 2004i:93045**
Wang, Li *see* **Nie, Hongzhen et al., 2004k:49024**
Wang, Ming-Zheng *see* **Xia, Zun Quan et al., 2004j:49032**
Weber, Gerhard-Wilhelm On the topology of generalized semi-infinite optimization. (English summary) **2004d:90112**
Wen, Ue-Pyng *see* **Lin, Chi-Jen, 2004c:90048**
Wets, Roger J.-B. *see* **Jofré, Alejandro, 2004j:49044**
Wright, Stephen Joseph Constraint identification and algorithm stabilization for degenerate nonlinear programs. (English summary) **2004h:90100**
Xi, Min *see* **Zhou, Hou Chun**
Xia, Zun Quan (*with* Wang, Ming-Zheng; Zhang, Li-Wei) Directional derivative of a class of set-valued mappings and its application. (English summary) **2004j:49032**
Xie, Zheng *see* **Han, Dong**
Yan, Hong *see* **Li, Shengjie et al., 2004j:90102**
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90C34 Semi-infinite programming

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Ortega, Eva-Maria *see* **Cánovas, María J. et al., 2004c:49037**

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Polak, Elijah *see* **Royset, J. O. et al., 2004i:90153**
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90C35 Programming involving graphs or networks [see also 90C27]

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Bals, Helge *see* **Albers, Susanne**, (**2004a:68002**)
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Berman, Oded *see* **Averbakh, Igor, 2004f:90151**
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Cabral, Edgar Alberto (*with* Gendreau, Michel; Ghiani, Gianpaolo; Laporte, Gilbert) Solving the hierarchical Chinese postman problem as a rural postman problem. (English summary) **2004j:90131**
Cai, Mao Cheng *see* **Zhang, Jian Zhong et al., 2004j:90142**
Calvete Fernández, Herminia Inmaculada Network simplex algorithm for the general equal flow problem. (English summary) **2004k:90141**
Campêlo, Manoel (*with* Corrêa, Ricardo C.; Frota, Yuri) Cliques, holes and the vertex coloring polytope. (English summary) **2004m:90168**
Čangalović, Mirjana *see* **Cvetković, Dragoš M., 2004a:90101**
Castellani, Tommaso (*with* Napolano, Vincenzo; Ricci-Tersenghi, Federico; Zecchina, Riccardo) Bicolouring random hypergraphs. (English summary) **2004k:90142**
Cerulli, Raffaele (*with* Festa, Paola; Raiconi, Giancarlo) Shortest path auction algorithm without contractions using virtual source concept. (English summary) **2004j:90132**
Chang, Fei-huang (*with* Guo, Jun-yi; Hwang, Frank K.; Lin, Cheng-kuan) Wide-sense nonblocking for symmetric or asymmetric 3-stage Clos networks under various routing strategies. (English summary) **2004m:90169**
Charnsethikul, Peerayuth *see* **Yaoyuenyong, Kriangchai et al., 2004a:90109**
Chen, Bao Xing (*with* Xiao, Wen Jun) An optimal routing algorithm for a class of undirected double loop networks. (Chinese. English and Chinese summaries)
Chen, Yen-Liang (*with* Yang, Hsu-Hao) Finding the first K shortest paths in a time-window network. (English summary)
Cheriyan, Joseph (*with* Vempala, Santosh) Edge covers of setpairs and the iterative rounding method. (English summary) **2004m:90170**
Chiarandini, Marco *see* **Paquete, Luis et al., (2004m:90003)**
Chudak, Fabián A. (*with* Roughgarden, Tim; Williamson, David P.) Approximate k-MSTs and k-Steiner trees via the primal-dual method and Lagrangean relaxation. (English summary) (*see* **2004j:90010**)
Chung, Chia-Shin *see* **Tozkapan, Ali et al., 2004b:90134**
Chung, Sung-Jin *see* **Hong, Sung-Pil et al., 2004i:90167**
Cook, William (*with* Seymour, P. D.) Tour merging via branch-decomposition. (English summary) **2004f:90152**
Corberán, A. (*with* Romero, Antonio; Sanchis, J. M.) The mixed general routing polyhedron. (English summary) **2004e:90145**
Corrêa, Ricardo C. *see* **Campêlo, Manoel et al., 2004m:90168**
Cvetković, Dragoš M. (*with* Čangalović, Mirjana) Finding minimal branchings with a given number of arcs. (English summary) **2004a:90101**
Dahl, Geir (*with* Gouveia, Luis) On the directed hop-constrained shortest path problem. (English summary) **2004i:90160**
Danilova, O. T. (*with* Faĭzullin, R. T.) An approximate global algorithm for solving the traveling salesman problem with the triangle inequality. (Russian. English summary) **2004k:90143**
Das, Shila (*with* Ahmed, Nazimuddin) A travelling salesman problem (TSP) with multiple job facilities. (English summary)
Dell'Olmo, Paolo (*with* Lulli, Guglielmo) A dynamic programming approach for the airport capacity allocation problem. (English summary)
Demange, Marc (*with* Monnot, Jérôme; Paschos, Vangelis Th.) Differential approximation results for the Steiner tree problem. (English summary) **2004e:90146**
Detti, Paolo *see* **Alonso-Ayuso, Antonio et al., 2004k:90138**
Dhamdhere, K. *see* **Bansal, Nikhil**, (**2004a:68002**)
Dimova, B. *see* **Barnes, J. W. et al., 2004e:90143**
Dokov, S. P. *see* **Barnes, J. W. et al., 2004e:90143** *and* **Solomon, Andrew Israel et al., 2004e:90144**
Donati, A. V. *see* **Montemanni, R. et al.**
Dong, Zhen Ning (*with* Kong, Shu Lan) Minimum cost flow problem on continuous networks. (Chinese. English and Chinese summaries)
Drake, P. R. *see* **Sadegheih, A., (2004i:00008)**
Du, Hongwei (*with* Jia, Xiaohua; Li, Deying; Wu, Weili) Coloring of double disk graphs. (English summary) **2004j:90133**
Duin, C. W. (*with* Volgenant, A.; Voß, Stefan) Solving group Steiner problems as Steiner problems. (English summary)
Dumitrescu, Irina (*with* Boland, Natashia) Improved preprocessing, labeling and scaling algorithms for the weight-constrained shortest path problem. (English summary) **2004g:90121**
Duni Ekşioğlu, Sandra *see* **Ekşioğlu, Burak et al., 2004m:90171**
Egidi, N. (*with* Maponi, P.) A comparative study of two fast phase unwrapping algorithms. (English summary) **2004i:90161**
Ehrgott, Matthias *see* **Blum, Christian**, **2004a:90099**
Ekşioğlu, Burak (*with* Duni Ekşioğlu, Sandra; Pardalos, Panos M.) Solving large scale fixed charge network flow problems. (English summary) **2004m:90171**
Epstein, Leah *see* **Armon, Amitai et al., 2004e:90142**
Escudero, Laureano F. *see* **Alonso-Ayuso, Antonio et al., 2004k:90138**
Esteves dos Santos, José Luís *see* **Paixão, José M. P. et al., 2004g:90124**

Faïzullin, R. T. *see* **Danilova, O. T., 2004k:90143**
Fakcharoenphol, Jittat (*with* Harrelson, Chris; Rao, Satish) The k-traveling repairman problem. (English summary) (*see* **2004a:68002**)
Fathabadi, H. Salehi (*with* Shirdel, G. H.) An $O(nm^2)$ time algorithm for solving minimal cost network flow problems. (English summary) **2004i:90162**
Feremans, Corinne (*with* Labbé, Martine; Laporte, Gilbert) Generalized network design problems. (English summary) **2004a:90102**
— (*with* Labbé, Martine; Laporte, Gilbert) The generalized minimum spanning tree problem: polyhedral analysis and branch-and-cut algorithm. (English summary) **2004j:90134**
Festa, Paola (*with* Pardalos, Panos M.; Resende, Mauricio G. C.; Ribeiro, C. C.) Randomized heuristics for the MAX-CUT problem. (English summary) **2004a:90103**
— *see also* **Cerulli, Raffaele et al., 2004j:90132**
Finocchi, Irene (*with* Petreschi, Rossella) Divider-based algorithms for hierarchical tree partitioning. (English summary) **2004m:90172**
Fleischer, Lisa A 2-approximation for minimum cost $\{0, 1, 2\}$ vertex connectivity. (English summary) **2004m:90173**
Flocchini, Paola (*with* Lodi, Elena; Luccio, Fabrizio; Pagli, Linda; Santoro, Nicola) Dynamic monopolies in tori. (English summary) **2004m:90174**
Frota, Yuri *see* **Campêlo, Manoel et al., 2004m:90168**
Fujie, Tetsuya An exact algorithm for the maximum leaf spanning tree problem. (English summary) **2004g:90122**
Fujishige, Satoru (*with* Isotani, Shigueo) New maximum flow algorithms by MA orderings and scaling. (English summary) **2004h:90080**
— A maximum flow algorithm using MA ordering. (English summary) **2004b:90128**
Fukuda, Kazuma (*with* Nakamori, Mario) Graph isomorphism algorithm by perfect matching. (English summary) **2004k:90144**
Gambardella, Luca Maria *see* **Montemanni, R. et al., 2004m:90183**
Gandhi, Rajiv (*with* Khuller, Samir; Kim, Yoo Ah; Wan, Yung-Chun) Algorithms for minimizing response time in broadcast scheduling. (English summary)
Gao, Cheng Xiu *see* **Yang, Lei et al.**
Gao, Li Li *see* **He, Xiao Lin**
Gao, Wen[1] *see* **Tan, Guo Zhen et al.**
Garg, Naveen (*with* Vazirani, Vijay V.; Yannakakis, Mihalis) Multiway cuts in node weighted graphs. (English summary) **2004i:90163**
Gelbukh, Alexander *see* **Adel'son-Vel'skiĭ, G. M. et al., 2004k:90137**
Gendreau, Michel *see* **Cabral, Edgar Alberto et al., 2004j:90131**
Gharbi, Anis (*with* Haouari, Mohamed) Minimizing makespan on parallel machines subject to release dates and delivery times. (English summary) **2004g:90123**
Ghashghai, Elham (*with* Rardin, Ronald L.) Using genetic algorithms to find good K-tree subgraphs. (English summary) (*see* **2004f:90008**)
Ghiani, Gianpaolo *see* **Cabral, Edgar Alberto et al., 2004j:90131**
Gimadi, È. Kh. (*with* Glebov, N. I.; Serdyukov, A. I.) On finding a cyclic tour and a vehicle loading plan yielding maximum profit. (English summary)
Glebov, N. I. *see* **Gimadi, È. Kh. et al.**
Goldschmidt, Olivier (*with* Laugier, Alexandre; Olinick, Eli V.) SONET/SDH ring assignment with capacity constraints. (English summary) **2004e:90147**
González-Martín, C. *see* **Sedeño-Noda, A.**
Gotoh, Jun-Ya (*with* Nguyen Van Thoai; Yamamoto, Yoshitsugu) Global optimization method for solving the minimum maximal flow problem. (English summary) **2004i:90164**
Gourvès, Laurent *see* **Angel, Eric et al., 2004m:90163**
Gouveia, Luis *see* **Dahl, Geir, 2004i:90160**
Gülpınar, Nalan (*with* Gutin, Gregory; Mitra, Gautam; Zverovitch, A.) Extracting pure network submatrices in linear programs using signed graphs. (English summary) **2004k:90145**
Günlük, Oktay A new min-cut max-flow ratio for multicommodity flows. (English summary)
Guo, Jun-yi *see* **Chang, Fei-huang et al., 2004m:90169**
Gutin, Gregory (*with* Yeo, Anders) Assignment problem based algorithms are impractical for the generalized TSP. (English summary) **2004a:90104**
— (*with* Yeo, Anders) Upper bounds on ATSP neighborhood size. (English summary) **2004k:90146**
— *see also* **Gülpınar, Nalan et al., 2004k:90145**
Hadj-Alouane, Atidel Ben (*with* Bean, James C.; Murty, Katta G.) A hybrid genetic/optimization algorithm for a task allocation problem. (English summary) **2004i:90165**
Hadjiconstantinou, Eleni *see* **Baldacci, Roberto et al., 2004d:90113**
Halperin, Eran (*with* Zwick, Uri) A unified framework for obtaining improved approximation algorithms for maximum graph bisection problems. (English summary) (*see* **2004j:90010**)
Han, Ji Ye *see* **Xu, Da Chuan et al., 2004b:90135** *and* **2004h:90084**
Haouari, Mohamed *see* **Gharbi, Anis, 2004g:90123**
Harrelson, Chris *see* **Fakcharoenphol, Jittat et al.,** (**2004a:68002**)
Hartvigsen, David Characterizing the flow equivalent trees of a network. (English summary) **2004e:90148**
Hassin, Refael *see* **Bazgan, Cristina et al.,** (**2004j:68002**)
He, Weiqing *see* **Marriott, Kim et al., 2004a:90106**
He, Xiao Lin (*with* Gao, Li Li) Minimum network problem and its time-based polynomial algorithm. (Chinese. English and Chinese summaries)
Helvig, C. S. (*with* Robins, Gabriel; Zelikovsky, Alexander) The moving-target traveling salesman problem. (English summary) **2004m:90175**
Hochbaum, Dorit S. Efficient algorithms for the inverse spanning-tree problem. (English summary) **2004j:90135**
— *see also* **Ahuja, Ravindra K. et al., 2004m:90162**
Holló, Cs. A procedure based on automaton theory approach for solving modified PNS problems. (English summary) **2004c:90079**
— A partial enumeration algorithm for solving PNS problems. (English summary) **2004m:90176**
Holmberg, Kaj (*with* Yuan, Di) Optimization of internet protocol network design and routing. (English summary) **2004i:90166**
Hong, Sung-Pil (*with* Chung, Sung-Jin; Park, Bum Kwan) A fully polynomial bicriteria approximation scheme for the constrained spanning tree problem. (English summary) **2004i:90167**
Hooker, John N. *see* **Kim, Hak-Jin, 2004j:90136**
Hordijk, Arie (*with* van der Laan, Dinard) Bounds for deterministic periodic routing sequences. (English summary) **2004m:90177**
Hsieh, Yong-Hsian *see* **Wang, Biing-Feng et al.**
Huang, Zheng Hai *see* **Xu, Da Chuan et al., 2004h:90084**
Huh, Woonghee Tim Finding 2-edge connected spanning subgraphs. (English summary) **2004k:90147**
Hurink, Johann A tabu search approach for a single-machine batching problem using an efficient method to calculate a best neighbour. (English summary)
Hwang, Frank K. *see* **Chang, Fei-huang et al., 2004m:90169**
Iori, Manuel (*with* Martello, Silvano; Monaci, Michele) Metaheuristic algorithms for the strip packing problem. (English summary) (*see* **2004b:90008**)
Isotani, Shigueo *see* **Fujishige, Satoru, 2004h:90080**
Ivanov, A. O. (*with* Tuzhilin, Alekseĭ Avgustinovich) Branching geodesics in normed spaces. (Russian. Russian summary) **2004b:90129**
Jakobsen, M. *see* **Bouhmala, N. et al.,** (**2004h:90005**)
Janakiraman, T. N. *see* **Sastry, V. N. et al.**
Jia, Xiaohua *see* **Du, Hongwei et al., 2004j:90133**
Jiang, Yong Heng (*with* Jin, Yi Hui) Bottleneck analysis of the minimum cost network. (Chinese. English and Chinese summaries)
Jin, Yi Hui *see* **Jiang, Yong Heng**
Jørgensen, David Grove *see* **Peyer, Sven et al., 2004m:90187**
Józsa, Balázs Gábor (*with* Király, Zoltán; Magyar, Gábor; Szentesi, Áron) An efficient algorithm for global path optimization in MPLS networks. (English summary) **2004d:90115**
Kämpke, Thomas *see* **Wang, Jinchang**
Kang, Li-shan *see* **Zhang, Jian[1]**
Kawatra, Rakesh (*with* Bricker, Dennis) Design of a degree-constrained minimal spanning tree with unreliable links and node outage costs. (English summary)
Kertész, János *see* **Szabó, Gábor J. et al.**
Khuller, Samir *see* **Gandhi, Rajiv et al.**
Kim, Hak-Jin (*with* Hooker, John N.) Solving fixed-charge network flow problems with a hybrid optimization and constraint programming approach. (English summary) **2004j:90136**
Kim, Jung-Sook A distributed nearest neighbor heuristic with upper bound under the PVM for the TSP. (English summary)
Kim, Yoo Ah *see* **Gandhi, Rajiv et al.**
Király, Zoltán *see* **Józsa, Balázs Gábor et al., 2004d:90115**
Kiranoudis, C. T. *see* **Tarantilis, C. D. et al., 2004g:90127**
Kırca, Ömer *see* **Tozkapan, Ali et al., 2004b:90134**
Klau, Gunnar W. (*with* Mutzel, Petra) Optimal labeling of point features in rectangular labeling models. (English summary) **2004c:90080**
Klinz, Bettina (*with* Woeginger, Gerhard J.) Minimum-cost dynamic flows: the series-parallel case. (English summary) **2004m:90178**
Kochetov, Yu. A. (*with* Stolyar, Artem Aleksandrovich) The use of alternating neighborhoods for an approximate solution of a resource-constrained scheduling problem. (Russian. Russian summary) **2004m:90179**
Kohn, Wolf *see* **Brayman, Vladimir et al.**
Kondo, Yoichi *see* **Yamaguchi, Kazuaki,** (**2004h:00019**)
Kong, Shu Lan *see* **Dong, Zhen Ning**
Kopman, L. *see* **Ralphs, T. K. et al., 2004g:90126**
Korotkikh, Galina (*with* Korotkikh, V. V.) On the role of nonlocal correlations in optimization. (English summary) (*see* **2004b:90008**)
Korotkikh, V. V. *see* **Korotkikh, Galina,** (**2004b:90008**)
Kovaleva, Sofia Improved PTAS for the unit-height rectangle packing problem: a new dynamic programming procedure. (English summary) **2004e:90149**
Kravtsov, M. K. (*with* Kravtsov, V. M.; Lukshin, E. V.) On types of $(3n-2)$-noninteger vertices of the polytope of a three-index axial choice problem. (Russian) **2004c:90081**
Kravtsov, V. M. *see* **Kravtsov, M. K. et al., 2004c:90081**
Ku, Shan-Chyun *see* **Wang, Biing-Feng et al.**
Kuznetsov, S. V. *see* **Romanovskiĭ, I. V., 2004d:90116**
van der Laan, Dinard *see* **Hordijk, Arie, 2004m:90177**
Labbé, Martine *see* **Feremans, Corinne et al., 2004a:90102** *and* **2004j:90134**
Labonté, Geneviève *see* **Boyd, Sylvia**
Ladner, Richard E. *see* **Bar-Noy, Amotz**
Laporte, Gilbert (*with* Riera-Ledesma, Jorge; Salazar González, Juan José) A branch-and-cut algorithm for the undirected traveling purchaser problem. (English summary) **2004i:90168**
— *see also* **Feremans, Corinne et al., 2004a:90102**; **2004j:90134** *and* **Cabral, Edgar Alberto et al., 2004j:90131**
Larmore, Lawrence L. *see* **Bein, Wolfgang W. et al.**
Larsson, Torbjörn (*with* Patriksson, Michael; Rydergren, C.) Inverse nonlinear multicommodity flow optimization by column generation. (English summary) **2004h:90081**
— (*with* Yuan, Di) An augmented Lagrangian algorithm for large scale multicommodity routing. (English summary) **2004j:90137**
Laugier, Alexandre *see* **Goldschmidt, Olivier et al., 2004e:90147**
Lebedev, V. N. *see* **Averbakh, Igor, 2004m:90165**
Levner, E. V. *see* **Adel'son-Vel'skiĭ, G. M. et al., 2004k:90137**
Lewenstein, Moshe (*with* Sviridenko, M. I.) Approximating asymmetric maximum TSP. (English summary) (*see* **2004a:68002**)
Lewin, Michael (*with* Livnat, Dror; Zwick, Uri) Improved rounding techniques for the MAX 2-SAT and MAX DI-CUT problems. (English summary)
Li, Deying *see* **Du, Hongwei et al., 2004j:90133**
Li, Nian[2] Designing the Hopfield neural networks using nonlinear programming. (English summary) **2004h:90082**
Lin, Cheng-kuan *see* **Chang, Fei-huang et al., 2004m:90169**

Lin, Yi-xun *see* **Zhang, Jian Zhong**, **2004a:90110** *and* **Burkard, Rainer E. et al.**, **2004k:90140**
Liu, Guanghui *see* **Xu, Da Chuan**, **2004h:90083**
Liu, San Yang *see* **Mu, Xue Wen**
Liu, Ya Ling *see* **Tan, Guo Zhen et al.**
Livnat, Dror *see* **Lewin, Michael et al.**
Lodi, Elena *see* **Flocchini, Paola et al.**, **2004m:90174**
Lomonosov, Mikhail Vasil'evich On return path packing. (English summary) **2004m:90180**
Lozovanu, Dmitrii (*with* Pasha, Tatiana) An algorithm for solving the transport problem on network with concave cost functions of flow on edges. (English summary) **2004a:90105**
Luccio, Fabrizio *see* **Flocchini, Paola et al.**, **2004m:90174**
Lukshin, E. V. *see* **Kravtsov, M. K. et al.**, **2004c:90081**
Lulli, Guglielmo *see* **Dell'Olmo, Paolo**
Ma, Jun[1] *see* **Yang, Lei et al.**
Magyar, Gábor *see* **Józsa, Balázs Gábor et al.**, **2004d:90115**
Maponi, P. *see* **Egidi, N.**, **2004i:90161**
Marcotte, Patrice (*with* Savard, Gilles; Semet, Frédéric) A bilevel programming approach to the travelling salesman problem. (English summary) **2004m:90181**
Markenzon, L. *see* **Vernet, O.**, **2004m:90191**
Marriott, Kim (*with* Stuckey, Peter J.; Tam, Vincent; He, Weiqing) Removing node overlapping in graph layout using constrained optimization. (English summary) **2004a:90106**
Martello, Silvano *see* **Iori, Manuel et al.**, (**2004b:90008**)
Martins, Ernesto de Queirós Vieira *see* **Paixão, José M. P. et al.**, **2004g:90124**
Mastrolilli, Monaldo Notes on max flow time minimization with controllable processing times. (English summary) **2004j:90138**
Matsui, Tomomi *see* **Matuura, Shiro**, **2004e:90150**
Matuura, Shiro (*with* Matsui, Tomomi) New approximation algorithms for MAX 2SAT and MAX DICUT. (English summary) **2004e:90150**
McCormick, S. Thomas (*with* Rao, M. Rammohan; Rinaldi, Giovanni) Easy and difficult objective functions for Max Cut. (English summary) **2004c:90082**
McMahan, H. Brendan (*with* Proskurowski, Andrzej) Multi-source spanning trees: algorithms for minimizing source eccentricities. (English summary) **2004m:90182**
Milchtaich, Igal Network topology and the efficiency of equilibrium. (English summary) (*see* **2004d:91002**)
Mingozzi, A. *see* **Baldacci, Roberto et al.**, **2004d:90113**
Mitra, Gautam *see* **Gülpınar, Nalan et al.**, **2004k:90145**
Mladenović, Nenad *see* **Urošević, Dragan et al.**, **2004m:90190**
Mohideen, S. Ismail *see* **Sastry, V. N. et al.**
Monaci, Michele *see* **Iori, Manuel et al.**, (**2004b:90008**)
Monnot, Jérôme (*with* Paschos, Vangelis Th.; Toulouse, Sophie) Approximation algorithms for the traveling salesman problem. (English summary) **2004a:90107**
— Differential approximation of NP-hard problems with equal size feasible solutions. (English summary) **2004i:90169**
— *see also* **Brüggemann, Tobias et al.**, **2004a:90100**; **Demange, Marc et al.**, **2004e:90146** *and* **Bazgan, Cristina et al.**, (**2004j:68002**)
Monteiro, Renato D. C. *see* **Burer, Samuel et al.**, **2004d:90114**
Montemanni, R. (*with* Gambardella, Luca Maria) An exact algorithm for the robust shortest path problem with interval data. (English summary) **2004m:90183**
— (*with* Gambardella, Luca Maria; Donati, A. V.) A branch and bound algorithm for the robust shortest path problem with interval data. (English summary)
Moretti, Stefano *see* **Norde, Henk et al.**, **2004i:90170**
Mu, Xue Wen (*with* Liu, San Yang) A nonlinear programmig algorithm for MAX-bisection. (Chinese. English and Chinese summaries)
Murty, Katta G. *see* **Hadj-Alouane, Atidel Ben et al.**, **2004i:90165**
Mutzel, Petra *see* **Klau, Gunnar W.**, **2004c:90080**
Nakamori, Mario *see* **Fukuda, Kazuma**, **2004k:90144**
Napolano, Vincenzo *see* **Castellani, Tommaso et al.**, **2004k:90142**
Natvig, T. *see* **Bouhmala, N. et al.**, (**2004h:90005**)
Newman, Alantha (*with* Vempala, Santosh) Fences are futile: on relaxations for the linear ordering problem. (English summary) **2004m:90184**
Nguyen Van Thoai *see* **Gotoh, Jun-Ya et al.**, **2004i:90164**
Norde, Henk (*with* Moretti, Stefano; Tijs, Stef) Minimum cost spanning tree games and population monotonic allocation schemes. (English summary) **2004i:90170**
Okamoto, Yoshio Traveling salesman games with the Monge property. (*see* **2004d:91002**)
— Traveling salesman games with the Monge property. (English summary) **2004m:90185**
Olinick, Eli V. *see* **Goldschmidt, Olivier et al.**, **2004e:90147**
Oliveira, Suely (*with* Stewart, David E.; Soma, Takako) A subspace semidefinite programming for spectral graph partitioning. (English summary) **2004m:90186**
Orlin, James B. *see* **Ahuja, Ravindra K. et al.**, **2004j:90129** *and* **2004m:90162**
Ortuño, M. Teresa *see* **Alonso-Ayuso, Antonio et al.**, **2004k:90138**
Pagli, Linda *see* **Flocchini, Paola et al.**, **2004m:90174**
Paixão, José M. P. (*with* Martins, Ernesto de Queirós Vieira; Rosa, Mário S.; Esteves dos Santos, José Luís) The determination of the path with minimum-cost norm value. (English summary) **2004g:90124**
Pallottino, Stefano *see* **Ahuja, Ravindra K. et al.**, **2004j:90129**
Paquete, Luis (*with* Chiarandini, Marco; Stützle, Thomas) Pareto local optimum sets in the biobjective traveling salesman problem: an experimental study. (English summary) (*see* **2004m:90003**)
Pardalos, Panos M. *see* **Festa, Paola et al.**, **2004a:90103** *and* **Ekşioğlu, Burak et al.**, **2004m:90171**
Park, Bum Kwan *see* **Hong, Sung-Pil et al.**, **2004i:90167**
Park, James K. *see* **Bein, Wolfgang W. et al.**
Park, Koohyun (*with* Shin, Yong-Sik) Uncapacitated point-to-multipoint network flow problem and its application to multicasting in telecommunication networks. (English summary) **2004k:90148**
Paschos, Vangelis Th. *see* **Monnot, Jérôme et al.**, **2004a:90107** *and* **Demange, Marc et al.**, **2004e:90146**
Pasha, Tatiana *see* **Lozovanu, Dmitrii**, **2004a:90105**
Patriksson, Michael *see* **Larsson, Torbjörn et al.**, **2004h:90081**
Perin, C. *see* **Podestá-Gomes, V.**
Petreschi, Rossella *see* **Finocchi, Irene**, **2004m:90172**
Petruševa, Silvana (*with* Bozhinovski, Stevo) Serial programming: "return from the subgoal" algorithms. (Macedonian. Macedonian summary) (*see* **2004b:00012**)
Peyer, Sven (*with* Zachariasen, Martin; Jørgensen, David Grove) Delay-related secondary objectives for rectilinear Steiner minimum trees. (English summary) **2004m:90187**
Pfetsch, Marc E. *see* **Amaldi, Edoardo[2] et al.**, **2004a:90098**
Podestá-Gomes, V. (*with* Perin, C.) Heuristics for obtaining an optimal basis for the multiflow problem. (Portuguese. Portuguese summary)
Pop, Petrică Claudiu Approximation results for the generalized minimum spanning tree problem. (English summary)
Porto, Oscar *see* **Bahiense, Laura et al.**, **2004j:90130**
Powell, Warren B. *see* **Spivey, Michael Z.**, **2004k:90150**
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Rardin, Ronald L. *see* **Ghashghai, Elham**, (**2004f:90008**)
Regev, Oded *see* **Armon, Amitai et al.**, **2004e:90142** *and* **Azar, Yossi**, **2004m:90166**
Resende, Mauricio G. C. *see* **Festa, Paola et al.**, **2004a:90103**
Ribeiro, C. C. *see* **Festa, Paola et al.**, **2004a:90103**
Ricci-Tersenghi, Federico *see* **Castellani, Tommaso et al.**, **2004k:90142**
Riera-Ledesma, Jorge *see* **Laporte, Gilbert et al.**, **2004i:90168**
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Rinaldi, Giovanni *see* **McCormick, S. Thomas et al.**, **2004c:90082**
Robins, Gabriel *see* **Helvig, C. S. et al.**, **2004m:90175**
Rohe, André *see* **Zachariasen, Martin**, **2004b:90136**
Romanovskiĭ, I. V. (*with* Kuznetsov, S. V.) Main algorithms and approaches to the solution of the k-version of minimal spanning tree problem. (English summary) **2004d:90116**
Romero, Antonio *see* **Corberán, A. et al.**, **2004e:90145**
Rosa, Mário S. *see* **Paixão, José M. P. et al.**, **2004g:90124**
Roughgarden, Tim *see* **Chudak, Fabián A. et al.**, (**2004j:90010**)
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Salazar González, Juan José The Steiner cycle polytope. (English summary) **2004b:90132**
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Sanchis, J. M. *see* **Corberán, A. et al.**, **2004e:90145**
Santoro, Nicola *see* **Flocchini, Paola et al.**, **2004m:90174**
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Sauer, Nathalie Marking optimization of weighted marked graphs. (English summary) **2004e:90151**
Savard, Gilles *see* **Marcotte, Patrice et al.**, **2004m:90181**
Scutellà, Maria Grazia An approximation algorithm for computing longest paths. (English summary) **2004b:90133**
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Segal, Michael Placing an obnoxious facility in geometric networks. (English summary) **2004j:90139**
Semet, Frédéric *see* **Marcotte, Patrice et al.**, **2004m:90181**
Serdyukov, A. I. *see* **Gimadi, Ė. Kh. et al.**
Seymour, P. D. *see* **Cook, William**, **2004f:90152**
Shao, Jun Li *see* **Qi, Dong Yuan et al.**, **2004b:90130**
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Shin, Yong-Sik *see* **Park, Koohyun**, **2004k:90148**
Shioura, Akiyoshi The MA-ordering max-flow algorithm is not strongly polynomial for directed networks. (English summary) **2004i:90172**
Shirdel, G. H. *see* **Fathabadi, H. Salehi**, **2004i:90162**
Sim, Melvyn *see* **Bertsimas, Dimitris**, **2004k:90139**
Solomon, Andrew Israel (*with* Barnes, J. W.; Dokov, S. P.; Acevedo, R.) Weakly symmetric graphs, elementary landscapes, and the TSP. (English summary) **2004e:90144**
— *see also* **Barnes, J. W. et al.**, **2004e:90143**
Soma, Takako *see* **Oliveira, Suely et al.**, **2004m:90186**
Sørensen, Michael M. New facets and a branch-and-cut algorithm for the weighted clique problem. (English summary) **2004j:90140**
Speranza, Maria Grazia *see* **Archetti, Claudia et al.**, **2004g:90120**
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Stein, Clifford (*with* Wagner, David P.) Approximation algorithms for the minimum bends traveling salesman problem. (English summary) **2004m:90188**
Stewart, David E. *see* **Oliveira, Suely et al., 2004m:90186**
Stolyar, Artem Aleksandrovich *see* **Kochetov, Yu. A., 2004m:90179**
Stuckey, Peter J. *see* **Marriott, Kim et al., 2004a:90106**
Stützle, Thomas *see* **Paquete, Luis et al., (2004m:90003)**
Sviridenko, M. I. *see* **Queyranne, Maurice, 2004g:90125** *and* **Lewenstein, Moshe, (2004a:68002)**
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Szentesi, Áron *see* **Józsa, Balázs Gábor et al., 2004d:90115**
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Tian, Yu Ping[1] *see* **Yang, Hong Yong**
Tijs, Stef *see* **Norde, Henk et al., 2004i:90170**
Timkovskiĭ, V. G. Identical parallel machines vs. unit-time shops and preemptions vs. chains in scheduling complexity. (English summary) **2004f:90153**
Togasaki, Mitsunori *see* **Sakai, Shuichi et al., 2004b:90131**
Toulouse, Sophie *see* **Monnot, Jérôme et al., 2004a:90107**
Tozkapan, Ali (*with* Kırca, Ömer; Chung, Chia-Shin) A branch and bound algorithm to minimize the total weighted flowtime for the two-stage assembly scheduling problem. (English summary) **2004b:90134**
Trotter, Leslie E., Jr. *see* **Amaldi, Edoardo[2] et al., 2004a:90098** *and* **Ralphs, T. K. et al., 2004g:90126**
Trubian, Marco *see* **Righini, Giovanni, 2004k:90149**
Tuzhilin, Alekseĭ Avgustinovich *see* **Ivanov, A. O., 2004b:90129**
Urošević, Dragan (*with* Brimberg, Jack; Mladenović, Nenad) Variable neighborhood decomposition search for the edge weighted *k*-cardinality tree problem. (English summary) **2004m:90190**
Vairaktarakis, George L. On Gilmore-Gomory's open question for the bottleneck TSP. (English summary) **2004i:90173**
Van Hentenryck, Pascal *see* **Aron, Ionuţ D., 2004i:90159**
Vassiliadis, V. S. *see* **Tarantilis, C. D. et al., 2004g:90127**
Vazirani, Vijay V. *see* **Garg, Naveen et al., 2004i:90163**
Vempala, Santosh *see* **Cheriyan, Joseph, 2004m:90170** *and* **Newman, Alantha, 2004m:90184**
Vernet, O. (*with* Markenzon, L.) Solving problems for maximal reducible flowgraphs. (English summary) **2004m:90191**
Vetta, Adrian *see* **Shepherd, F. Bruce**
Vira, Chankong *see* **Yaoyuenyong, Kriangchai et al., 2004a:90109**
Volgenant, A. *see* **Duin, C. W. et al.**
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Wagner, David P. *see* **Stein, Clifford, 2004m:90188**
Walkowiak, Krzysztof M. A branch and bound algorithm for primary routes assignment in survivable connection oriented networks. (English summary) **2004j:90141**
Wan, Yung-Chun *see* **Gandhi, Rajiv et al.**
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Williamson, David P. *see* **Chudak, Fabián A. et al., (2004j:90010)**
Woeginger, Gerhard J. *see* **Brüggemann, Tobias et al., 2004a:90100** *and* **Klinz, Bettina, 2004m:90178**
Wu, Weili *see* **Du, Hongwei et al., 2004j:90133**
Xia, You Sheng Global convergence analysis of Lagrangian networks. (English summary) **2004g:90128**
Xiao, Wen Jun *see* **Chen, Bao Xing**
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Yamamoto, Yoshitsugu *see* **Gotoh, Jun-Ya et al., 2004i:90164**
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Yeo, Anders *see* **Gutin, Gregory, 2004a:90104** *and* **2004k:90146**
Yuan, Di *see* **Holmberg, Kaj, 2004i:90166** *and* **Larsson, Torbjörn, 2004j:90137**
Zabinsky, Zelda B. *see* **Brayman, Vladimir et al.**
Zachariasen, Martin (*with* Rohe, André) Rectilinear group Steiner trees and applications in VLSI design. (English summary) **2004b:90136**
— *see also* **Peyer, Sven et al., 2004m:90187**
Zecchina, Riccardo *see* **Castellani, Tommaso et al., 2004k:90142**
Zelikovsky, Alexander *see* **Helvig, C. S. et al., 2004m:90175**
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Zhang, Li Ping[1] *see* **Xu, Da Chuan et al., 2004h:90084**
Zhang, Yin[1] *see* **Burer, Samuel et al., 2004d:90114**
Zverovitch, A. *see* **Gülpınar, Nalan et al., 2004k:90145**
Zwick, Uri *see* **Halperin, Eran, (2004j:90010)** *and* **Lewin, Michael et al.**

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Averbakh, Igor Complexity of robust single facility location problems on networks with uncertain edge lengths. (English summary) **2004d:90037**
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Beasley, J. E. (*with* Meade, N.; Chang, Tun-Jen) An evolutionary heuristic for the index tracking problem. (English summary) **2004b:90167**
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Bernasconi, K. *see* **Balasubramanian, Suman et al., 2004e:05131**
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Bixby, Robert *see* **Applegate, David et al., 2004h:90059**
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Boginski, Vladimir (*with* Butenko, Sergiy; Pardalos, Panos M.) Modeling and optimization in massive graphs. (English summary) **2004j:68141**
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(Broersma, H. J.) *see* **Workshop: Graphs and Combinatorial Optimization**
Brucker, Peter (*with* Knust, Sigrid) Lower bounds for resource-constrained project scheduling problems. (English summary) **2004h:90022**
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Buchheim, Christoph (*with* Jünger, Michael) Detecting symmetries by branch & cut. (English summary) **2004i:20004**
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Burke, Edmund K. (*with* Newall, J. P.) Solving examination timetabling problems through adaption of heuristic orderings. (English summary)
Butenko, Sergiy *see* **Boginski, Vladimir et al., 2004j:68141**
Cai, Mao Cheng (*with* Deng, Xiao-Tie; Feng, Haodi; Li, Guo Jun[1]; Liu, Gui Zhen) A PTAS for minimizing total completion time of bounded batch scheduling. (English summary)
— (*with* Deng, Xiao-Tie; Wang, Lusheng) Minimum k arborescences with bandwidth constraints. (English summary) **2004k:05171**
Călinescu, Gruia (*with* Fernandes, Cristina G.; Reed, Bruce A.) Multicuts in unweighted graphs and digraphs with bounded degree and bounded tree-width. (English summary) **2004f:68187**
Calvete Fernández, Herminia Inmaculada (*with* del Pozo, Lourdes) The quickest path problem with batch constraints. (English summary) **2004c:90005**
Camponogara, Eduardo (*with* Talukdar, Sarosh) Designing communication networks for distributed control agents. (English summary) **2004m:90023**
Cappanera, Paola (*with* Gallo, Giorgio; Maffioli, Francesco) Discrete facility location and routing of obnoxious activities. (English summary) **2004k:90055**
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Caprara, Alberto (*with* Panconesi, Alessandro; Rizzi, Romeo) Packing cycles in undirected graphs. (English summary) **2004h:05121**
— (*with* Monaci, Michele; Toth, Paolo) Models and algorithms for a staff scheduling problem. (English summary) **2004i:90067**
Cardei, Mihaela *see* **Qiao, Hong et al., 2004a:05119**
Carlier, Jacques (*with* Néron, E.) On linear lower bounds for the resource constrained project scheduling problem. (English summary) **2004i:90035**
Carvalho, M. F. H. *see* **de Azevedo, A. T. et al.**
Caseau, Yves *see* **Wallace, Mark G. et al., (2004k:90007)**
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Ceria, Sebastián Lift-and-project cuts and perfect graphs. (English summary) **2004i:05061**
Chanas, Stefan (*with* Kasperski, Adam) Possible and necessary optimality of solutions in the single machine scheduling problem with fuzzy parameters. (English summary) **2004m:90245**
Chandran, L. Sunil (*with* Ram, L. Shankar) Approximations for ATSP with parametrized triangle inequality. (English summary) **2004m:68283**
Chang, Tun-Jen *see* **Beasley, J. E. et al., 2004b:90167**
Chao, Kun-Mao *see* **Wu, Bang Ye, 2004i:90008**
Chaovalitwongse, Wanpracha (*with* Kim, Dukwon; Pardalos, Panos M.) GRASP with a new local search scheme for vehicle routing problems with time windows. (English summary) **2004f:90079**
Chawla, Shuchi *see* **Blum, Avrim et al., 2004e:68016**
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Chen, Guang Ting *see* **Li, Guo Jun[1] et al.**
Chen, Guo Liang[2] *see* **Zhang, Xian Chao et al., 2004d:05192**
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Chen, Mike (*with* Pandit, Charuhas; Meyn, Sean P.) In search of sensitivity in network optimization. (English summary) **2004j:90016**
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Cheriyan, Joseph (*with* Vempala, Santosh; Vetta, Adrian) An approximation algorithm for the minimum-cost k-vertex connected subgraph. (English summary) **2004g:68196**
Christofides, Nicos *see* **Fontes, Dalila B. M. M. et al., 2004h:90008**
Chvátal, Vašek *see* **Applegate, David et al., 2004h:90059**
Cieslik, Dietmar A monotone iterative procedure to approximate trees of minimal length in metric spaces. (English summary) **2004c:68142**
Ciupală, Laura *see* **Ciurea, Eleonor, 2004m:90010**
Ciurea, Eleonor (*with* Ciupală, Laura) Sequential and parallel algorithms for minimum flows. (English summary) **2004m:90010**
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Comellas, Francesc (*with* Hell, Pavol) Broadcasting in generalized chordal rings. (English summary) **2004j:90021**
Conforti, Michele (*with* Hassin, Refael; Ravi, Ramamoorthi) Reconstructing edge-disjoint paths. (English summary) **2004e:05183**
Cook, William *see* **Applegate, David et al., 2004h:90059**
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Courcelle, Bruno (*with* Vanicat, R.) Query efficient implementation of graphs of bounded clique-width. (English summary) **2004k:05145**
Crainic, Teodor Gabriel *see* **Toulouse, Michel et al., 2004k:90103**
Crama, Yves *see* **Brauner, Nadia et al.**
Craveirinha, José M. F. *see* **Clímaco, João C. N. et al., 2004m:90024**
Dantzig, George B. (*with* Thapa, Mukund N.) ★ Linear programming. 2. **2004e:90061**
De Baets, Bernard *see* **De Meyer, Hans E. et al.**
Deguchi, Yozo *see* **Okada, Norio et al.**
De Matas, C. M. Minimum weight star covers. (English summary) **2004f:05171**
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Deng, Xiao-Tie (*with* Poon, Chung Keung; Zhang, Yu Zhong[1]) Approximation algorithms in batch processing. (English summary) **2004i:90037**
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Ding, Guo Sheng (*with* Wu, Hao Min; Sun, Shi Jie) Minimizing total completion time of orders with multiple job classes. (Chinese. English and Chinese summaries)
Dollani, Helidon *see* **Burkard, Rainer E., 2004f:90071**
Do Nascimento, Josina O. *see* **Barbosa, Valmir C. et al.**
Dong, Long Jiang *see* **Huang, Lan et al.**
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Dorfman, M. J. *see* **Medanic, J., 2004a:90033**
Drake, Doratha E. (*with* Hougardy, Stefan) On approximation algorithms for the terminal Steiner tree problem. (English summary) **2004i:68248**
Drawe, Michael *see* **Werners, Brigitte, (2004f:90009)**
Du, Ding-Zhu *see* **Qiao, Hong et al., 2004a:05119**
Durán, Guillermo (*with* Lin, Min Chih; Szwarcfiter, Jayme L.) On clique-transversals and clique-independent sets. (English summary) **2004a:05113**
Duxbury, P. M. *see* **Alava, M. J. et al., 2004k:82040**
Dyubin, G. N. (*with* Korbut, A. A.) The average behaviour of greedy algorithms for the knapsack problem: general distributions. (English summary) **2004d:90071**
Eades, Peter *see* **Nagamochi, Hiroshi, 2004d:05116**
Easton, Todd *see* **Horton, S. B. et al., 2004g:05144**
Elbassioni, Khaled M. *see* **Boros, Endre et al., 2004d:05134** *and* **2004i:05116**
El-Kassar, A. N. (*with* Hamdan, May F.) Combinatorial approach for a scheduling problem. (English summary)
Elkin, Michael (*with* Peleg, David) Approximating k-spanner problems for $k > 2$. (English summary) **2004m:68284**
Elsässer, Robert (*with* Lücking, Thomas; Monien, Burkhard) On spectral bounds for the k-partitioning of graphs. (English summary) **2004f:68115**
Engel, Konrad (*with* Guttmann, Sven) Testing bandwidth k for k-connected graphs. (English summary) **2004b:05181**
Eppstein, David Setting parameters by example. (English summary) **2004g:90114**
Escalante, Mariana S. *see* **Aguilera, Néstor E. et al., 2004c:05080**
Escudero, Laureano F. (*with* Muñoz, Susana) On identifying dominant cliques. (English summary) **2004e:90094**
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Espelage, W. (*with* Wanke, E.) Movement minimization for unit distances in conveyor flow shop processing. (English summary) **2004a:90029**
Estrin, Deborah *see* **Goel, Ashish, (2004a:68002)**
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Faragó, András (*with* Szentesi, Áron; Szviatovszki, Balázs) Inverse optimization in high-speed networks. (English summary) **2004f:90014**
Farley, Arthur M. Minimal path broadcast networks. (English summary) **2004k:68012**
Farr, Jeffrey B. *see* **Balasubramanian, Suman et al., 2004e:05131**
Feige, Uriel (*with* Krauthgamer, Robert; Nissim, Kobbi) On cutting a few vertices from a graph. (English summary) **2004c:05186**
Fekete, Sándor P. (*with* Meijer, Henk; Rohe, André; Tietze, Walter) Solving a "hard" problem to approximate an "easy" one: heuristics for maximum matchings and maximum traveling salesman problems. (English summary) **2004d:90136**
— (*with* Meijer, Henk) Maximum dispersion and geometric maximum weight cliques. (English summary) **2004m:68285**
Feng, Haodi *see* **Cai, Mao Cheng et al.**
Fernandes, Cristina G. *see* **Călinescu, Gruia et al., 2004f:68187**
Fernández, Elena (*with* Meza, Oscar; Garfinkel, Robert; Ortega, Maruja) On the undirected rural postman problem: tight bounds based on a new formulation. (English summary) **2004b:90093**
Ferrari, Paolo Optimal flow pattern in road networks. (English summary) **2004j:90024**
Ferreira, Afonso Galvao *see* **Xuan, B. Bui et al., 2004c:68011**
Finke, Gerd *see* **Brauner, Nadia et al.**
Finocchi, Irene *see* **Demetrescu, Camil, 2004b:05190**
Fischermann, Miranca (*with* Hoffmann, Arne; Rautenbach, Dieter; Volkmann, Lutz) A linear-programming approach to the generalized Randić index. (English summary) **2004c:05096**
Fleischer, Lisa (*with* Skutella, Martin) The quickest multicommodity flow problem. (English summary)
Fleischer, Rudolf (*with* Golin, Mordecai J.; Lea, Chin-Tau; Wong, Steven) Finding optimal paths in MREP routing. (English summary)
Fontes, Dalila B. M. M. (*with* Hadjiconstantinou, Eleni; Christofides, Nicos) Upper

bounds for single-source uncapacitated concave minimum-cost network flow problems. (English summary) **2004h:90008**

Fortz, Bernard (*with* Labbé, Martine) Two-connected networks with rings of bounded cardinality. (English summary) **2004j:90015**

Fotakis, Dimitris A. (*with* Nikoletseas, Sotiris E.; Papadopoulou, Vicky G.; Spirakis, Paul G.) Radiocolorings in periodic planar graphs: PSPACE-completeness and efficient approximations for the optimal range of frequencies. (English summary)

Fragoudakis, Christodoulos *see* **Markou, Euripides et al.**, (**2004j:68002**)

Frangioni, Antonio *see* **Cappanera, Paola**, **2004i:90013**

Franz, Silvio (*with* Leone, Michele) Replica bounds for optimization problems and diluted spin systems. (English summary) **2004h:82047**

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Gairing, M. *see* **Balasubramanian, Suman et al.**, **2004e:05131**

Gallo, Giorgio *see* **Cappanera, Paola et al.**, **2004k:90055**

Gardi, Frédéric Efficient algorithms for disjoint matchings among intervals and related problems. (English summary) (*see* **2004k:68004**)

Garfinkel, Robert *see* **Fernández, Elena et al.**, **2004b:90093**

Garg, Naveen (*with* Khandekar, Rohit; Konjevod, Goran; Ravi, Ramamoorthi; Salman, F. Sibel; Sinha, Amitabh) On the integrality gap of a natural formulation of the single-sink buy-at-bulk network design problem. (English summary) **2004m:90012**

Garín, Araceli *see* **Escudero, Laureano F. et al.**, **2004a:90072**

George, J. W. (*with* ReVelle, Charles S.) Bi-objective median subtree location problems. (English summary) **2004k:90060**

(Gerards, Albertus M. H.) *see* **Integer programming and combinatorial optimization**, **2004j:90010**

Gijswijt, Dion (*with* Schrijver, Alexander) On the b-stable set polytope of graphs without bad K_4. (English summary) **2004f:05068**

Gimadi, È. Kh. (*with* Korkishko, N. M.) An algorithm for solving the three-index axial assignment problem on one-cycle permutations. (Russian. Russian summary) **2004e:90057**

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Goel, Ashish (*with* Estrin, Deborah) Simultaneous optimization for concave costs: single sink aggregation or single source buy-at-bulk. (English summary) (*see* **2004a:68002**)

Golin, Mordecai J. *see* **Fleischer, Rudolf et al.**

Gomes, Fernando C. *see* **Corrêa, Ricardo C. et al.**

Gong, Zhigang *see* **Cheng, Maggie Xiaoyan et al.**, **2004f:90018**

González-Velarde, José Luis (*with* Laguna, Manuel) Tabu search with simple ejection chains for coloring graphs. (English summary) **2004b:05191**

— *see also* **de Alba, Karim et al.**, (**2004b:90006**)

Gouveia, Luis (*with* Magnanti, Thomas L.) Network flow models for designing diameter-constrained minimum-spanning and Steiner trees. (English summary) **2004b:90012**

Granat, Janusz (*with* Guerriero, Francesca) The interactive analysis of the multicriteria shortest path problem by the reference point method. (English summary) **2004e:90107**

Granot, Daniel (*with* Hamers, Herbert) On the equivalence between some local and global Chinese postman and traveling salesman graphs. (English summary) **2004i:91021**

Griewank, Andreas (*with* Naumann, Uwe) Accumulating Jacobians as chained sparse matrix products. (English summary) **2004b:90095**

Gu, Jun *see* **Zhou, Zhi[2] et al.**, **2004c:68164** *and* **2004h:68157**

Gudmundsson, Joachim (*with* Haverkort, Herman; Park, Sang-Min; Shin, Chan-Su; Wolff, Alexander) Facility location and the geometric minimum-diameter spanning tree. (English summary) **2004m:90068**

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Guenin, Bertrand A short proof of Seymour's characterization of the matroids with the Max-Flow Min-Cut property. (English summary)

Guerriero, Francesca *see* **Granat, Janusz**, **2004e:90107**

Gurvich, Vladimir *see* **Boros, Endre et al.**, **2004d:05134** *and* **2004i:05116**

Gutin, Gregory (*with* Vaĭnshteĭn, A. D.; Yeo, Anders) Domination analysis of combinatorial optimization problems. (English summary) **2004g:90092**

— *see also* **Ben-Arieh, D. et al.**, **2004e:90012**

Guttmann, Sven *see* **Engel, Konrad**, **2004b:05181**

Hadjiconstantinou, Eleni *see* **Fontes, Dalila B. M. M. et al.**, **2004h:90008**

Halldórsson, Magnús M. (*with* Kortsarz, Guy; Shachnai, Hadas) Sum coloring interval and k-claw free graphs with application to scheduling dependent jobs. (English summary) **2004f:05056**

Halman, Nir A linear time algorithm for the weighted lexicographic rectilinear 1-center problem in the plane. (English summary) **2004a:90042**

Halperin, Eran (*with* Kortsarz, Guy; Krauthgamer, Robert; Srinivasan, Aravind; Wang, Nan[1]) Integrality ratio for group Steiner trees and directed Steiner trees. (English summary) (*see* **2004a:68002**)

Hamacher, Horst W. (*with* Klamroth, Kathrin) ★ Lineare und Netzwerk-Optimierung/Linear and network optimization. (German) **2004g:90001**

Hamdan, May F. *see* **El-Kassar, A. N.**

Hamers, Herbert *see* **Granot, Daniel**, **2004i:91021**

Hansen, Pierre *see* **Brimberg, Jack et al.**, **2004a:90038** *and* **Kochetov, Yu. A. et al.**, **2004c:90047**

Harel, David *see* **Koren, Yehuda**

Har-Peled, Sariel *see* **Cheong, Otfried et al.**, **2004m:68255**

Harris, Britton Two algorithms for the multi-Weber problem. (English summary)

Hassin, Refael (*with* Levin, Asaf) Minimum spanning tree with hop restrictions. (English summary) **2004h:68154**

— (*with* Rubinstein, Shlomi) Approximation algorithms for the metric maximum clustering problem with given cluster sizes. (English summary) **2004a:90073**

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— *see also* **Conforti, Michele et al.**, **2004e:05183**

Haverkort, Herman *see* **Gudmundsson, Joachim et al.**, **2004m:90068**

He, Yong[1] *see* **Tan, Zhi Yi**, **2004m:90057**

Hedetniemi, Stephen T. *see* **Balasubramanian, Suman et al.**, **2004e:05131**

Hell, Pavol *see* **Comellas, Francesc**, **2004j:90021**

Hertz, Alain *see* **Kis, Tamás**, **2004b:90042** *and* **Avanthay, Cédric et al.**

Hifi, Mhand Dynamic programming and Hill-climbing techniques for constrained two-dimensional cutting stock problems. (English summary)

Ho, Chih-Chang (*with* Hwang, Frank K.) Dynamic assignments on consecutive-2 systems. (English summary)

Ho, Hann-Jang *see* **Lee, SingLing**, **2004f:05177**

Hochbaum, Dorit S. (*with* Tucker, Paul A.) Minimax problems with bitonic matrices. (English summary) **2004b:90173**

Hoffmann, Arne *see* **Fischermann, Miranca et al.**, **2004c:05096**

Horton, S. B. (*with* Easton, Todd; Parker, R. Gary) The linear arrangement problem on recursively constructed graphs. (English summary) **2004g:05144**

Hota, Mrinmoy (*with* Pal, Madhumangal; Pal, Tapan K.) Optimal sequential and parallel algorithms to compute all cut vertices on trapezoid graphs. (English summary) **2004j:68143**

Hougardy, Stefan *see* **Drake, Doratha E.**, **2004i:68248**

Huang, Lan (*with* Wang, Kang Ping; Zhou, Chun Guang; Pang, Wei; Dong, Long Jiang; Peng, Li) Particle swarm optimization for traveling salesman problems. (Chinese. English and Chinese summaries)

Huang, Liu Sheng *see* **Zhou, Zhi[2] et al.**, **2004c:68164** *and* **2004h:68157**

Huang, Xiao *see* **Cheng, Maggie Xiaoyan et al.**, **2004f:90018**

Hurink, Johann *see* **Brucker, Peter et al.**, **2004h:90023** *and* **Workshop: Graphs and Combinatorial Optimization**

Hutson, K. *see* **Balasubramanian, Suman et al.**, **2004e:05131**

Hwang, Frank K. *see* **Ho, Chih-Chang**

Ishii, Hiroaki[1] *see* **Katagiri, Hideki et al.**, **2004g:90155**

Iwamura, Kakuzo *see* **Okada, Norio et al.**

Iyengar, S. S. *see* **Kannan, Rajgopal et al.**, **2004b:90010**

Jarry, A. *see* **Xuan, B. Bui et al.**, **2004c:68011**

Jayaraman, Vaidyanathan (*with* Patterson, Raymond A.; Rolland, Erik) The design of reverse distribution networks: models and solution procedures. (English summary)

Ji, Hai Bo A global convergent algorithm for flows in a two-dimensional network. (English summary) **2004m:90014**

Jia, Xiaohua *see* **Cheng, Maggie Xiaoyan et al.**, **2004f:90018**

Jiang, Cheng Dong *see* **Zhou, Zhi[2] et al.**, **2004c:68164** *and* **2004h:68157**

Jiang, Tao[1] *see* **Chen, Zhi-Zhong et al.**, **2004f:92019**

Jünger, Michael *see* **Buchheim, Christoph**, **2004i:20004**

Jungnickel, Dieter *see* **Fremuth-Paeger, Christian**, **2004f:90015**

Kalai, Adam *see* **Blum, Avrim et al.**, **2004e:68016**

Kang, Li Ying *see* **Qiao, Hong et al.**, **2004a:05119**

Kannan, Rajgopal (*with* Sarangi, Sudipta; Ray, Sibabrata; Iyengar, S. S.) Minimal sensor integrity: measuring the vulnerability of sensor grids. (English summary) **2004b:90010**

Karypis, George Multilevel hypergraph partitioning. (*see* **2004f:90010**)

Kasperski, Adam *see* **Chanas, Stefan**, **2004m:90245**

Katagiri, Hideki (*with* Sakawa, Masatoshi; Ishii, Hiroaki[1]) Fuzzy random bottleneck spanning tree problems using possibility and necessity measures. (English summary) **2004g:90155**

Katayama, Kengo *see* **Kohmoto, Keiko et al.**, **2004k:90174**

Khachaturov, Roman V. *see* **Khachaturov, Vladimir R. et al.**, **2004i:06012**

Khachaturov, Ruben V. *see* **Khachaturov, Vladimir R. et al.**, **2004i:06012**

Khachaturov, Vladimir R. (*with* Khachaturov, Roman V.; Khachaturov, Ruben V.) Supermodular programming on lattices. **2004i:06012**

Khachiyan, Leonid *see* **Boros, Endre et al.**, **2004d:05134** *and* **2004i:05116**

Khandekar, Rohit *see* **Garg, Naveen et al.**, **2004m:90012**

Kieffer, Yann The facets of the polytope of modules of a graph. (English summary) **2004g:05137**

Kim, Dukwon *see* **Chaovalitwongse, Wanpracha et al.**, **2004f:90079**

Kim, Jeong Han (*with* Lee, Sungchul) Tail bound for the minimal spanning tree of a complete graph. (English summary) **2004d:60018**

Kis, Tamás (*with* Hertz, Alain) A lower bound for the job insertion problem. (English summary) **2004b:90042**

Klabjan, Diego *see* **Makri, Alexandra**, **2004d:90004**

Klamroth, Kathrin *see* **Hamacher, Horst W.**, **2004g:90001**

Knust, Sigrid *see* **Brucker, Peter**, **2004h:90022**

Kochetov, Yu. A. (*with* Mladenović, Nenad; Hansen, Pierre) Local search with alternating neighborhoods. (Russian. Russian summary) **2004c:90047**

Kohmoto, Keiko (*with* Katayama, Kengo; Narihisa, Hiroyuki) Performance of a genetic algorithm for the graph partitioning problem. (English summary) **2004k:90174**

Kolman, Petr A note on the greedy algorithm for the unsplittable flow problem. (English summary) **2004h:68156**

Könemann, Jochen (*with* Ravi, Ramamoorthi) A matter of degree: improved approximation algorithms for degree-bounded minimum spanning trees. (English summary) **2004c:68160**

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Konjevod, Goran *see* **Könemann, Jochen et al.**, **2004m:68288** *and* **Garg, Naveen et al.**, **2004m:90012**

Korbut, A. A. *see* **Dyubin, G. N.**, **2004d:90071**

Koren, Yehuda (*with* Harel, David) A multi-scale algorithm for the linear arrangement problem. (English summary)

Korkishko, N. M. *see* **Gimadi, È. Kh.**, **2004e:90057**

Kortsarz, Guy *see* **Halldórsson, Magnús M. et al.**, **2004f:05056** *and* **Halperin, Eran et al.**, (**2004a:68002**)

Krauthgamer, Robert *see* **Feige, Uriel et al.**, **2004c:05186** *and* **Halperin, Eran et al.**, (**2004a:68002**)

(Labahn, Roger) *see* **Workshop: Algorithms, Combinatorics, and Optimization in Interconnection Networks, 1st International, IWACOIN '99**
Labbé, Martine *see* **Fortz, Bernard, 2004j:90015**
Laguna, Manuel *see* **González-Velarde, José Luis, 2004b:05191** *and* **Martí, Rafael, 2004c:90109**
Lahiri, Somdeb Stable sets of weak tournaments. (English summary)
Larsson, Torbjörn (*with* Lundgren, Jan T.; Rydergren, C.; Patriksson, Michael) Most likely traffic equilibrium route flows analysis and computation. (English summary) **2004j:90018**
Laskar, Renu C. *see* **Balasubramanian, Suman et al., 2004e:05131**
Lea, Chin-Tau *see* **Fleischer, Rudolf et al.**
Lee, SingLing (*with* Ho, Hann-Jang) On minimizing the maximum congestion for weighted hypergraph embedding in a cycle. (English summary) **2004f:05177**
Lee, Sungchul *see* **Kim, Jeong Han, 2004d:60018**
Lemaire, Pierre *see* **Brauner, Nadia et al.**
Leone, Michele *see* **Franz, Silvio, 2004h:82047**
Letchford, Adam N. (*with* Lodi, Andrea) Primal separation algorithms. (English summary) **2004m:90232**
Le Thi Hoai An (*with* Pham Dinh Tao) Large-scale molecular optimization from distance matrices by a d.c. optimization approach. (English summary) **2004g:90107**
Levcopoulos, Christos *see* **Andersson, Mattias et al., 2004k:68166** *and* **(2004j:00014)**
Levin, Asaf *see* **Hassin, Refael, 2004h:68154** *and* **2004k:90101**
Levit, Vadim E. (*with* Mandrescu, Eugen) Local maximum stable sets in bipartite graphs with uniquely restricted maximum matchings. (English summary) **2004k:05156**
Li, Deying *see* **Cheng, Maggie Xiaoyan et al., 2004f:90018**
Li, Guo Jun[1] (*with* Zhang, Shao Qiang; Ousmane, Samake; Chen, Guang Ting) Wavelength assignment in all-optical WDM networks with ring topology. (Chinese. English and Chinese summaries)
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Li, Haibing (*with* Lim, Andrew L. C.) Local search with annealing-like restarts to solve the VRPTW. (English summary)
Li, Qiao *see* **Wang, Ming[3], 2004f:05103**
Liaw, Ching-Fang Scheduling two-machine preemptive open shops to minimize total completion time. (English summary) **2004m:90050**
Liberatore, Vincenzo Circular arrangements and cyclic broadcast scheduling. (English summary) **2004m:68289**
Liebling, Thomas M. (*with* Oriolo, Gianpaolo; Spille, Bianca; Stauffer, Gautier) On non-rank facets of the stable set polytope of claw-free graphs and circulant graphs. (English summary) **2004m:90233**
(Liestman, Arthur L.) *see* **Workshop: Algorithms, Combinatorics, and Optimization in Interconnection Networks, 1st International, IWACOIN '99**
Lih, Keh-Wei *see* **Brimberg, Jack et al., 2004a:90038**
Lim, Andrew L. C. *see* **Li, Haibing**
Lin, Feng-Tse *see* **Yao, Jing-Shing, 2004a:90008**
Lin, Guo-Hui *see* **Chen, Zhi-Zhong et al., 2004f:92019**
Lin, Man (*with* Yang, Laurence Tianruo) Scheduling partially ordered tasks in a multiprocessor environment with hybrid genetic algorithms. (English summary)
Lin, Min Chih *see* **Durán, Guillermo et al., 2004a:05113**
Linial, Nathan *see* **Cheong, Otfried et al., 2004m:68255**
Lisser, Abdel (*with* Rendl, Franz) Graph partitioning using linear and semidefinite programming. (English summary) **2004e:90062**
Liu, Gui Zhen *see* **Cai, Mao Cheng et al.**
Liu, Xiang Hui[2] (*with* Yin, Jian Ping; Tang, Le Le; Zhao, Jian Min) Analysis of efficient monitoring method for the network flow. (Chinese. English and Chinese summaries) **2004a:90007**
Liu, Zhen[1] (*with* Righter, Rhonda) Optimal parallel processing of random task graphs. (English summary) **2004f:68005**
Lodi, Andrea *see* **Letchford, Adam N., 2004m:90232**
Lozovanu, Dmitrii (*with* Stratila, Dan) The minimum-cost flow problem on dynamic networks and an algorithm for its solving. (English summary) **2004b:90013**
Lu, Yingdong (*with* Yao, David D.) Optimal control of a fluid network with side constraints. (English summary) **2004k:49062**
Lučić, Panta (*with* Teodorović, Dušan) Vehicle routing problem with uncertain demand at nodes: the bee system and fuzzy logic approach. (English summary) (*see* **2004f:90009**)
Lücking, Thomas *see* **Elsässer, Robert et al., 2004f:68115**
Lundgren, Jan T. *see* **Larsson, Torbjörn et al., 2004j:90018**
Maffioli, Francesco *see* **Cappanera, Paola et al., 2004k:90055**
Magnanti, Thomas L. *see* **Gouveia, Luis, 2004b:90012**
Makri, Alexandra (*with* Klabjan, Diego) Algorithms for source-to-all maximum cost-to-time ratio problem in acyclic networks. (English summary) **2004d:90004**
Mandrescu, Eugen *see* **Levit, Vadim E., 2004k:05156**
Margot, François Small covering designs by branch-and-cut. (English summary) **2004c:90107**
Marins, F. A. S. *see* **Perin, C. et al.**
Markou, Euripides (*with* Zachos, Stathis; Fragoudakis, Christodoulos) Maximizing the guarded boundary of an art gallery is APX-complete. (English summary) (*see* **2004j:68002**)
Martí, Rafael (*with* Laguna, Manuel) Heuristics and meta-heuristics for 2-layer straight line crossing minimization. (English summary) **2004c:90109**
Martinhon, C. A. *see* **Motta, L. C. S. et al., 2004d:05188**
(Martins, Ernesto de Queirós Vieira) *see* **Special Issue: In memory of Ernesto Q. V. Martins**
Matoušek, Jiří *see* **Cheong, Otfried et al., 2004m:68255**
Mazalov, Vladimir V. (*with* Zhuravlev, D. N.) On the method of cumulative sums in the problem of detecting change in the traffic of computer networks. (Russian. Russian summary)
Meade, N. *see* **Beasley, J. E. et al., 2004b:90167**
Medanic, J. (*with* Dorfman, M. J.) Efficient scheduling of traffic on a railway line. (English summary) **2004a:90033**
Meijer, Henk *see* **Fekete, Sándor P. et al., 2004d:90136** *and* **2004m:68285**
Mello, Margarida *see* **Perin, C. et al.**
Meyn, Sean P. *see* **Chen, Mike et al., 2004j:90016**
Meza, Oscar *see* **Fernández, Elena et al., 2004b:90093**
Migdalas, Athanasios *see* **Pardalos, Panos M.**
Mijangos, E. An implementation of Newton-like methods on nonlinearly constrained networks. (English summary) **2004i:90136**
Mitchell, John E. Realignment in the National Football League: did they do it right? (English summary) **2004f:90012**
Mizoguchi, Yoshihiro *see* **Mori, Masao[2]**
Mladenović, Nenad *see* **Brimberg, Jack et al., 2004a:90038** *and* **Kochetov, Yu. A. et al., 2004c:90047**
Monaci, Michele *see* **Caprara, Alberto et al., 2004i:90067**
Monien, Burkhard *see* **Elsässer, Robert et al., 2004f:68115**
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Tietze, Walter *see* **Fekete, Sándor P. et al., 2004d:90136**
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Tsur, Dekel *see* **Shamir, Ron et al.**
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Vasil'ev, Vasil S. *see* **Nikolova, Mariana P. et al.**
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Verdegay, José-Luis *see* **Moreno Pérez, José A. et al., 2004m:90073**
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90C39 Dynamic programming [see also 49L20]

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90C46 Optimality conditions, duality [see also 49N15]

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Golikov, A. I. *see* **Evtushenko, Yu. G.**, **2004m:90203**
Govil, Misha G. *see* **Lalitha, C. S. et al.**, **2004f:90159**
Grad, S. M. *see* **Wanka, Gert et al.**, **2004m:90204**
Gupta, P. *see* **Mishra, Shashi K. et al.**, **2004c:90090**
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Di Pillo, Gianni (*with* Liuzzi, Giampaolo; Lucidi, Stefano; Palagi, Laura) An exact augmented Lagrangian function for nonlinear programming with two-sided constraints. (English summary) **2004f:90127**
Dong, Hong-Bin *see* **Gong, Xun-Hua et al., 2004d:90083**
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Feng, En Min *see* **Liu, Sanming, 2004e:90111**
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Ginchev, Ivan Higher order optimality conditions in nonsmooth vector optimization. (English summary) **2004f:90116**
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Ishmukhametov, A. Z. Regularized optimization methods with finite-step internal algorithms. (Russian) **2004m:90113**
Iusem, Alfredo N. *see* **Graña Drummond, L. M. et al., 2004e:90106** *and* **2004g:90099**
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Jeyakumar, V. (*with* Đinh Thế Lục) Sharp variational conditions for convex composite nonsmooth functions. (English summary) **2004d:49038**
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Jiménez Guerra, P. *see* **Balbas de la Corte, Alejandro et al., 2004a:90077**
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Kanno, Yoshihiro (*with* Ohsaki, Makoto) Minimum principle of complementary energy of cable networks by using second-order cone programming. (English summary) **2004h:74012**
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Kim, Hyun-Jeong *see* **Kuk, Hun, 2004h:90078**
Kim, Jong Kyu *see* **Kim, Do Sang et al., 2004d:90085**
Kim, Moon Hee Multiobjective variational programming under generalized vector variational type I invexity. (English summary) **2004j:90099**
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Kim, Myung Hee *see* **Kim, Do Sang et al., 2004d:90085**
Koller, Eduard *see* **Preda, Vasile et al., 2004e:90116**
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Lai, Kin Keung *see* **Mishra, Shashi K. et al., 2004k:90114**
Lalitha, C. S. *see* **Suneja, S. K. et al., 2004k:90098**
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Le Anh Tuan *see* **Nguyen Dinh, 2004a:90068**
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Lee, Won Jung *see* **Kim, Do Sang et al., 2004k:49079**
Lemaréchal, Claude The omnipresence of Lagrange. (English summary) **2004k:49073**
Le Minh Luu *see* **Phan Quoc Khanh, 2004b:90100**
Le Tu Luc *see* **Lê Dũng Mu'u**
Li, Chong[1] (*with* Ng, Kung Fu) On best approximation by nonconvex sets and perturbation of nonconvex inequality systems in Hilbert spaces. (English summary) **2004a:41054**
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Lou, Ye *see* **He, Zhi Hua**
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Luh, Peter B. *see* **Chen, Haoxun, 2004d:90028**

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Martínez-Legaz, Juan Enrique ★ Generalized convex duality and its economic applications. (English summary) **2004k:49080**
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Mastroeni, Giandomenico *see* **Giannessi, Franco et al.**, **2004f:49040**
Mehra, Aparna *see* **Bhatia, Davinder**, **2004e:90103**
Metrane, A. *see* **Gadhi, N.**, **2004k:90108**
Mimura, Fumitake *see* **Fujiwara, Fumiyo et al.**, **2004d:91036**
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Niculescu, Cristian On duality for a class of nondifferentiable multiobjective programming problems. (English summary) **2004f:90120**
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Nôno, Takayuki *see* **Fujiwara, Fumiyo et al.**, **2004d:91036**
Novo Sanjurjo, Vicente *see* **Jiménez, Bienvenido**, **2004c:90059**; **2004d:90084**; **2004k:90112**; **Adán, M.**, **2004d:90076** *and* **Giorgi, Giorgio et al.**, **2004k:90109**
Ocaña, Eladio *see* **Crouzeix, Jean Pierre et al.**, **2004g:49001**
Ohsaki, Makoto *see* **Kanno, Yoshihiro**, **2004h:74012**
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Osuna-Gómez, R. *see* **Ruiz-Garzón, G. et al.**, **2004d:90065**
Palagi, Laura *see* **Di Pillo, Gianni et al.**, **2004f:90127**
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Pinnau, René *see* **Burger, Martin**, **2004j:49060**
Poliquin, R. A. *see* **Hare, W. L.**, **2004c:49031**
Popa, Mariana *see* **Popa, Marin et al.**, **2004i:90111**
Popa, Marin (*with* Popa, Mariana; Beldiman, Miruna) On generalized univexity-type nonlinear programming problems. (English summary) **2004i:90111**
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Ramík, Jaroslav *see* **Inuiguchi, Masahiro et al.**, **2004c:90114**
Riahi, Hassan *see* **Gadhi, N.**, **2004a:90080** *and* **Amahroq, T. et al.**, **2004c:49030**
Rocca, Matteo *see* **Crespi, Giovanni P. et al.**, **2004h:49026** *and* **2004k:49035**
Romaniello, Maria *see* **Morgan, Jacqueline**, **2004e:49010**
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Schaible, Siegfried *see* **Kim, Do Sang et al.**, **2004k:49079**
Schättler, Heinz M. *see* **Łędzewicz-Kowalewska, Urszula**, **2004c:49056**
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— *see also* **Getán, J. et al.**, **2004f:49066**
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Song, Wen[1] *see* **Ng, Kung Fu**, **2004k:49081**
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Taa, A. Subdifferentials of multifunctions and Lagrange multipliers for multiobjective optimization. (English summary) **2004d:90092**
Tanino, Tetsuzo *see* **Inuiguchi, Masahiro et al.**, **2004c:90114** *and* **Kuk, Hun**, **2004d:90086**
Tikhomirov, Vladimir M. *see* **Magaril-Il'yaev, Georgii G.**, **2004k:49002**
Tret'yakov, A. A. *see* **Brezhneva, Olga A.**, **2004c:49055**
Tröltzsch, Fredi *see* **Casas Rentería, Eduardo**, **2004f:49047**
Uderzo, Amos Conditions for Pareto efficiency: regularity and non-regularity in nonlinear vector optimization. (English summary) **2004h:90067**
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Visweswariah, Chandu (*with* Conn, Andrew R.; Silva, Luís G.) Exploiting optimality conditions in accurate static circuit tuning. (English summary) **2004m:90248**
Vlach, Milan *see* **Inuiguchi, Masahiro et al.**, **2004c:90114**
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Sun, Xiao Ling *see* **Li, Duan**, **2004d:90126**
Thompson, Heven Bevan *see* **Wu, Xian[3] et al.**, **2004d:90127** *and* **Huang, Nan Jing et al.**, **2004i:90188**
Tsurkov, Vladimir *see* **Mironov, A. A.**, **2004g:90144**
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Petersson, Joakim *see* **Patriksson, Michael, 2004b:74078**

Pini, Rita *see* **Bianchi, Monica, 2004f:90138**

Pinyagina, Olga V. *see* **Konnov, Igor V., 2004g:49010**

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Pochet, Yves *see* **Elloumi, Sourour et al.**

Podczeck, Konrad Core and Walrasian equilibria when agents' characteristics are extremely

dispersed. (English summary) **2004k:91137**
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Raciti, Fabio Equilibrium in time dependent traffic networks with delay. (English summary) **2004j:90026**
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90C48 Programming in abstract spaces

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90C49 Extreme-point and pivoting methods

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90C51 Interior-point methods

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90C52 Methods of reduced gradient type

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90C56 Derivative-free methods

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Marenco, Javier *see* **Coll, Pablo et al., 2004g:05057**
Maróti, Gábor *see* **Gerards, Albertus M. H. et al.**
Martínez, J. A. *see* **Casado, L. G. et al., 2004a:90086**
Mavronicolas, Marios *see* **Koukopoulos, Dimitrios et al., (2004j:68002)**
Melachrinoudis, Emanuel *see* **Kozanidis, George, 2004m:90088**
Méndez Díaz, Isabel *see* **Coll, Pablo et al., 2004g:05057**
Milano, Michela (*with* Trick, Michael A.) Constraint and integer programming. (English summary) (*see* **2004k:90007**)
Miller, Andrew J. (*with* Nemhauser, George L.; Savelsbergh, Martin W. P.) A multi-item production planning model with setup times: algorithms, reformulations, and polyhedral characterizations for a special case. (English summary) **2004e:90035**
Mironov, A. A. (*with* Tsurkov, Vladimir) Open transportation models with a minimax criterion. (Russian) **2004b:90066**
Mokotoff, Ethel An exact algorithm for the identical parallel machine scheduling problem. (English summary) **2004g:90046**
Monaci, Michele *see* **Caprara, Alberto et al., 2004i:90067**
Montemanni, R. (*with* Gambardella, Luca Maria; Donati, A. V.) A branch and bound algorithm for the robust shortest path problem with interval data. (English summary)
Munier Kordon, Alix *see* **Baptiste, Philippe et al.**
Nagamochi, Hiroshi *see* **Karuno, Yoshiyuki, 2004e:90040**
Nasini, Graciela L. *see* **Aguilera, Néstor E. et al., 2004c:05080** *and* **Gerards, Albertus M. H. et al.**
Nauss, Robert M. Solving the generalized assignment problem: an optimizing and heuristic approach. (English summary) **2004d:90043**
Nemhauser, George L. *see* **Miller, Andrew J. et al., 2004e:90035**; **de Farias, Ismael R., Jr., 2004e:90095** *and* **Easton, Kelly et al., (2004k:90007)**
Nicol, David M. *see* **Mao, Weizhen, 2004h:68010**
Nikoletseas, Sotiris E. *see* **Koukopoulos, Dimitrios et al., (2004j:68002)**
Nikolov, Nikola S. *see* **Healy, Patrick**
Niwa, Akira *see* **Ikegami, Atsuko, 2004g:90042**
Nowicki, Tomasz (*with* Tresser, Charles) Convex dynamics: unavoidable difficulties in bounding some greedy algorithms. (English summary) **2004k:37193**
Okamoto, Yoshio *see* **Kashiwabara, Kenji, 2004j:90091**
van Oostrum, René *see* **Aronov, Boris et al., 2004g:68176**
Oriolo, Giuseppe Clique family inequalities for the stable set polytope of quasi-line graphs. (English summary) **2004m:05197**
Ortega Riejos, Francisco A. (*with* Wolsey, Laurence A.) A branch-and-cut algorithm for the single-commodity, uncapacitated, fixed-charge network flow problem. (English summary) **2004b:90014**
Oswald, Marcus (*with* Reinelt, Gerhard) The weighted consecutive ones problem for a fixed number of rows or columns. (English summary) **2004f:05034**
Ottosson, Greger *see* **Hooker, John N., 2004a:90074**
Parija, Gyana R. (*with* Ahmed, Shabbir; King, Alan J.) On bridging the gap between stochastic integer programming and MIP solver tecnologies. (English summary)
Pastor, Rafael (*with* Corominas, Albert) Branch and Win: OR tree search algorithms for solving combinatorial optimisation problems. (English summary)
Perregaard, Michael *see* **Balas, Egon, 2004e:90067**
Pesch, Erwin *see* **Dorndorf, Ulrich et al., 2004e:90038**
Pfetsch, Marc E. *see* **Kaibel, Volker, 2004i:52012**
Phan-Huy, Toàn *see* **Dorndorf, Ulrich et al., 2004e:90038**
Powell, Warren B. *see* **Chen, Zhi-Long, 2004f:90041**
Pulleyblank, William R. *see* **Ralphs, T. K. et al., 2004g:90126**
Ralphs, T. K. (*with* Kopman, L.; Pulleyblank, William R.; Trotter, Leslie E., Jr.) On the capacitated vehicle routing problem. (English summary) **2004g:90126**
— (*with* Ladányi, L.; Saltzman, M. J.) Parallel branch, cut, and price for large-scale discrete optimization. (English summary) **2004i:90118**
Reinelt, Gerhard *see* **Oswald, Marcus, 2004f:05034**
Rendl, Franz *see* **Gruber, Gerald, 2004g:90074**
Rey, Pablo A. (*with* Sagastizábal, Claudia A.) Convex normalizations in lift-and-project methods for 0-1 programming. (English summary) **2004a:90049**
Reyes, Patricio A. *see* **Barrientos, O. et al., 2004k:90076**
Riera-Ledesma, Jorge *see* **Laporte, Gilbert et al., 2004i:90168**
Rinaldi, Giovanni *see* **Eisenbrand, Friedrich et al., 2004b:90068**
Ríos-Mercado, Roger Z. (*with* Bard, Jonathan F.) The flow shop scheduling polyhedron with setup times. (English summary) **2004i:90054**
Rodríguez Martín, Inmaculada *see* **Labbé, Martine et al., 2004m:90025**
Sagastizábal, Claudia A. *see* **Rey, Pablo A., 2004a:90049**
Salazar González, Juan José The Steiner cycle polytope. (English summary) **2004b:90132**
— *see also* **Laporte, Gilbert et al., 2004i:90168** *and* **Labbé, Martine et al., 2004m:90025**
Saltzman, M. J. *see* **Ralphs, T. K. et al., 2004i:90118**
Sasaki, Mihiro (*with* Fukushima, Masao F.) On the hub-and-spoke model with arc capacity constraints. (English summary) **2004j:90052**
Savelsbergh, Martin W. P. *see* **Miller, Andrew J. et al., 2004e:90035**
Schrijver, Alexander ★ Combinatorial optimization. Polyhedra and efficiency. Vol. A. **2004b:90004a**
— ★ Combinatorial optimization. Polyhedra and efficiency. Vol. B. **2004b:90004b**
— ★ Combinatorial optimization. Polyhedra and efficiency. Vol. C. **2004b:90004c**
— *see also* **Gerards, Albertus M. H. et al.**
Schulz, Andreas S. *see* **Baptiste, Philippe et al.**
Seki, Tomokazu *see* **Tomita, Etsuji, (2004k:68004)**

Sergeev, Yaroslav D. *see* **Casado, L. G. et al., 2004a:90086**
Sforza, Antonio *see* **Avella, Pasquale et al., 2004g:90064**
Shenmaier, V. V. Analysis of coordinate-wise lifting algorithms for polymatroids. (Russian. Russian summary) **2004b:90070**
Sherali, Hanif D. *see* **Glover, Fred, 2004d:90048**
Shevchenko, V. N. (*with* Gruzdev, D. V.) A modification of the Fourier-Motskin algorithm for constructing a triangulation. (Russian. Russian summary) **2004k:65246**
Shioura, Akiyoshi Fast scaling algorithms for M-convex function minimization with application to the resource allocation problem. (English summary) **2004h:90035**
Shmoys, David B. *see* **Chudak, Fabián A., 2004m:90237**
Sierksma, Gerard *see* **Goldengorin, Boris et al., 2004e:90058** *and* **2004i:90069**
Sørensen, Michael M. New facets and a branch-and-cut algorithm for the weighted clique problem. (English summary) **2004j:90140**
Sourd, Francis The continuous assignment problem and its application to preemptive and non-preemptive scheduling with irregular cost functions. (English summary)
Soutif, Éric *see* **Billionnet, Alain**
Spille, Bianca (*with* Weismantel, Robert) A generalization of Edmonds' matching and matroid intersection algorithms. (English summary)
— *see also* **Fekete, Sándor P. et al., 2004h:05102**
Spirakis, Paul G. *see* **Koukopoulos, Dimitrios et al., (2004j:68002)**
Srinivasan, G.[1] *see* **Viswanathkumar, G., 2004f:90059**
Steiner, George *see* **Cheng, Jinliang et al., (2004f:90009)**
Stephenson, Paul A. *see* **Cheng, Jinliang et al., (2004f:90009)**
Sturmfels, Bernd *see* **De Loera, Jesús A., 2004e:90066**
Subramani, K. On deciding the non-emptiness of 2SAT polytopes with respect to first order queries. (English summary) **2004m:68101**
Takabatake, Takashi *see* **Kashiwabara, Kenji, 2004j:52006**
(Thomas, Rekha R.) *see* **Algebraic and geometric methods in discrete optimization**
Titarenko, V. N. *see* **Yagola, A. G., 2004k:65101**
Tomita, Etsuji (*with* Seki, Tomokazu) An efficient branch-and-bound algorithm for finding a maximum clique. (English summary) (*see* **2004k:68004**)
Toth, Paolo *see* **Caprara, Alberto et al., 2004i:90067**
Tozkapan, Ali (*with* Kırca, Ömer; Chung, Chia-Shin) A branch and bound algorithm to minimize the total weighted flowtime for the two-stage assembly scheduling problem. (English summary) **2004b:90134**
Tresser, Charles *see* **Nowicki, Tomasz, 2004k:37193**
Trick, Michael A. *see* **Milano, Michela, (2004k:90007)** *and* **Easton, Kelly et al., (2004k:90007)**
Tripathy, J. P. *see* **Das, Chakradhar**
Trotter, Leslie E., Jr. *see* **Ralphs, T. K. et al., 2004g:90126**
Tsurkov, Vladimir *see* **Mironov, A. A., 2004b:90066**
Tunçel, Levent *see* **Lipták, László, 2004j:90063**
Valdebenito, A. *see* **Barrientos, O. et al., 2004k:90076**
Van Voorhis, Tim (*with* Al-Khayyal, Faiz A.) Difference of convex solution of quadratically constrained optimization problems. (English summary) **2004b:90086**
Varadarajan, Kasturi R. *see* **Aronov, Boris et al., 2004g:68176**
Ventura, Paolo *see* **Eisenbrand, Friedrich et al., 2004b:90068**
Viswanathkumar, G. (*with* Srinivasan, G.[1]) A branch and bound algorithm to minimize completion time variance on a single processor. (English summary) **2004f:90059**
Walkowiak, Krzysztof M. A branch and bound algorithm for primary routes assignment in survivable connection oriented networks. (English summary) **2004j:90141**
Weismantel, Robert *see* **Henk, Martin et al., 2004c:90024** *and* **Spille, Bianca**
Williams, Joy *see* **Lee, Jon[2], 2004b:90069**
Wolsey, Laurence A. *see* **Ortega Riejos, Francisco A., 2004b:90014** *and* **Louveaux, Quentin, 2004m:90095**
Yagola, A. G. (*with* Titarenko, V. N.) A posteriori error estimation for ill-posed problems on some sourcewise represented or compact sets. (English summary) **2004k:65101**
Ye, Liu Qing *see* **Gao, Yue Lin et al., 2004f:90097**
Zabala, Paula *see* **Coll, Pablo et al., 2004g:05057**
Zamani, Reza An efficient time-windowing procedure for scheduling projects under multiple resource constraints. (English summary)
Zeron, Eduardo S. *see* **Lasserre, Jean Bernard, 2004j:52018**
Zhang, Lian Sheng *see* **Gao, Yue Lin et al., 2004f:90097**

Items listed otherwise than by author

Algebraic and geometric methods in discrete optimization ★ Algebraic and geometric methods in discrete optimization.

90C59 Approximation methods and heuristics

Achenie, Luke E. K. (*with* Sinha, Manish) Interval global optimization in solvent design. (English summary)
Albrecht, Andreas *see* **Steinhöfel, K. et al.**
Ali, M. Montaz (*with* Törn, A.) Population set-based global optimization algorithms: some modifications and numerical studies. (English summary)
Arakawa, Masao *see* **Nakayama, Hirotaka et al., (2004h:90005)**
Arnold, Dirk V. (*with* Beyer, Hans-Georg) Performance analysis of evolutionary optimization with cumulative step length adaptation. (English summary) **2004m:90235**
Auger, Anne (*with* Ben Haj-Yedder, Adel; Schoenauer, Marc) Overview and software guide of evolutionary algorithms: a case study in quantum control. (English summary) (*see* **2004j:00023**)
Avanthay, Cédric (*with* Hertz, Alain; Zufferey, Nicolas) A variable neighborhood search for graph coloring. (English summary)
Badr, Amr (*with* Fahmy, Ahmed) A proof of convergence of ant algorithms. (English summary) **2004k:90171**
Bagirov, Adil M. (*with* Zhang, Jaipu) Comparative analysis of the cutting angle and simulated annealing methods in global optimization. (English summary) **2004k:90172**
Barbosa, Helio J. C. (*with* Lemonge, Afonso C. C.) A new adaptive penalty scheme for genetic algorithms. (English summary)
— (*with* Lavor, C.; Raupp, F. M. P.) Computational experiments with an adaptive genetic algorithm for global minimization of potential energy functions. (English summary)
Barhen, J. *see* **Protopopescu, Vladimir et al.**
Baykasoğlu, Adil (*with* Gindy, Nabil N. Z.) Erratum to: "A simulated annealing algorithm for dynamic layout problem" [Comput. Oper. Res. **28** (2001), no. 14, 1403–1426].
Bean, James C. *see* **Lin, Alex Z.-Z. et al., (2004f:90008)**
Beasley, J. E. (*with* Meade, N.; Chang, Tun-Jen) An evolutionary heuristic for the index tracking problem. (English summary) **2004b:90167**
— A population heuristic for constrained two-dimensional non-guillotine cutting. (English summary)
Beielstein, Thomas (*with* Mehnen, Jörn; Schönemann, Lutz; Schwefel, Hans-Paul; Surmann, Tobias; Weinert, Klaus; Wiesmann, Dirk) Design of evolutionary algorithms and applications in surface reconstruction. (English summary) (*see* **2004a:00018**)
Beliakov, Gleb Geometry and combinatorics of the cutting angle method. (English summary) **2004m:90236**
Ben Haj-Yedder, Adel *see* **Auger, Anne et al., (2004j:00023)**
Beyer, Hans-Georg *see* **Arnold, Dirk V., 2004m:90235**
Bhaskar, Atul *see* **Leary, Stephen J. et al., 2004b:90171**
Bi, Yong-qing (*with* Xue, Ming Zhi) The convergence of the abstract evolutionary algorithm based on a special selection mechanism. (English summary)
Boettcher, Stefan (*with* Percus, Allon G.) Extremal optimization: an evolutionary local-search algorithm. (English summary) (*see* **2004b:90006**)
Bräysy, Olli A reactive variable neighborhood search for the vehicle-routing problem with time windows. (English summary)
Cadenas, José M. (*with* Garrido, M. C.; Jiménez, Fernando) Heuristics for optimization: two approaches for problem resolution. (English summary) (*see* **2004f:90009**)
Cai, Qing Sheng *see* **Han, Jing, 2004h:90107**
Campos, Vicente *see* **Piñana, Estefanía et al.**
Čangalović, Mirjana *see* **Mladenović, Nenad et al.**
Cao, Dong (*with* Chen, Mingyuan) Using penalty function and Tabu search to solve cell formation problems with fixed cell cost. (English summary) **2004g:90152**
Cao, Hongqing (*with* Yu, Jingxian; Kang, Li-shan; McKay, R. I. Bob) An experimental study of some control parameters in parallel genetic programming. (English summary)
Cao, Sheng Shan (*with* Li, Bo[4]) An evolutionary algorithm for global optimization of functions. (Chinese. English and Chinese summaries)
Cardoso, M. F. *see* **Salcedo, R. L. et al.**
Carvalho, L. M. *see* **Lavor, C. et al.**
Castellanos Noda, Longina *see* **Gómez López, Susana et al., 2004d:90137**
del Castillo, Nelson *see* **Gómez López, Susana et al., 2004d:90137**
Chang, Tun-Jen *see* **Beasley, J. E. et al., 2004b:90167**
Chen, Chang Ling *see* **Dai, Xiao Ming et al.**
Chen, Huo Wang *see* **Xie, Tao et al.**
Chen, Mingyuan *see* **Cao, Dong, 2004g:90152**
Chen, Yi-Xin *see* **Wah, Benjamin W., (2004f:90008)**
Cheng, Kuo-Hsiang *see* **Li, Chunshien et al.**
Cheng, Tie Peng *see* **Dai, Xiao Ming et al.**
Chubanov, Sergei *see* **Girlich, Eberhard et al., 2004b:90169**
Chudak, Fabián A. (*with* Shmoys, David B.) Improved approximation algorithms for the uncapacitated facility location problem. (English summary) **2004m:90237**
Coello Coello, Carlos A. (*with* Cortés, Nareli Cruz) Hybridizing a genetic algorithm with an artificial immune system for global optimization. (English summary)
Cortés, Nareli Cruz *see* **Coello Coello, Carlos A.**
Covas, José A. *see* **Gaspar-Cunha, António, (2004m:90003)**
Cui, Peng (*with* Zhang, Li Ang; Ji, Li Jiu; Gao, Li[1]) Comparisons of two smoothing algorithms for optimization in one-dimensional spaces. (Chinese. English and Chinese summaries)
Curry, B. (*with* Morgan, P. H.) Evaluating Kohonen's learning rule: an approach through genetic algorithms. (English summary)
Dai, Xiao Ming (*with* Chen, Chang Ling; Shao, Hui He; Das, Kay; Cheng, Tie Peng; Mao, Xue Fei) Convergence analysis of coarse-grained parallel genetic algorithm and its application to optimization. (Chinese. English and Chinese summaries)
Das, Kay *see* **Dai, Xiao Ming et al.**
Deb, Kalyanmoy (*with* Goel, Tushar) Multi-objective evolutionary algorithms for engineering shape design. (English summary) (*see* **2004f:90008**)
Deguchi, Yozo *see* **Okada, Norio et al.**
D'Helon, C. *see* **Protopopescu, Vladimir et al.**
Doerner, Karl F. (*with* Hartl, Richard F.; Reimann, Marc) CompetAnts for problem solving: the case of full truckload transportation. (English summary) **2004i:90195**
Dolan, Elizabeth D. (*with* Lewis, Robert Michael; Torczon, Virginia J.) On the local convergence of pattern search. (English summary) **2004m:90238**
Dolgui, Alexandre (*with* Sysoev, Valery) Une heuristique d'optimisation globale basée sur la Ψ-transformation. (English and French summaries) [Heuristic of global optimization based on the Ψ-transform] **2004h:90106**
Dong, Long Jiang *see* **Huang, Lan et al.**
Droste, Stefan (*with* Jansen, Thomas; Rudolph, Günter; Schwefel, Hans-Paul; Tinnefeld, Karsten; Wegener, Ingo) Theory of evolutionary algorithms and genetic programming. (English summary) (*see* **2004a:00018**)
Dumitrescu, Dumitru T. (*with* Groşan, Crina; Oltean, Mihai) A new evolutionary adaptive representation paradigm. (English summary)
Dupont, Audrey *see* **Vasquez, Michel et al.**
Eiben, Ágoston E. *see* **Michalewicz, Zbigniew et al., (2004f:90008)**
El Fallahi, Abdellah (*with* Martí, Rafael) Tabu and scatter search for artificial neural networks. (English summary) (*see* **2004b:90006**)
Fahmy, Ahmed *see* **Badr, Amr, 2004k:90171**
Fan, Hui-Yuan (*with* Lampinen, Jouni) A trigonometric mutation operation to differential evolution. (English summary)
Fathi, Yahya *see* **Wardono, Bagas**
Fekete, Sándor P. (*with* Meijer, Henk; Rohe, André; Tietze, Walter) Solving a "hard" problem to approximate an "easy" one: heuristics for maximum matchings and maximum traveling salesman problems. (English summary) **2004d:90136**

Feller, J. *see* **Mergenthaler, W. et al.**
Figueiredo, Isabel M. N. (*with* Júdice, Joaquim J.; Oliveira, Pedro N.) Complementarity and genetic algorithms for an optimization shell problem. (English summary) **2004i:90196**
Fleischer, M. A. (*with* Jacobson, Sheldon H.) Scale invariance properties in the simulated annealing algorithm. (English summary) **2004b:90168**
Fukushima, Masao F. *see* **Hedar, Abdel-Rahman, 2004f:90175**
Fushimi, Toshihiko *see* **Miki, Mitsunori et al.**
Gao, Li[1] *see* **Cui, Peng et al.**
Garrido, M. C. *see* **Cadenas, José M. et al., (2004f:90009)**
Gaspar-Cunha, António (*with* Covas, José A.) RPSGAe—reduced Pareto set genetic algorithm: application to polymer extrusion. (English summary) (*see* **2004m:90003**)
Gavrilova, Marina L. (*with* Rokne, Jon) Collision detection optimization in a multi-particle system. (English summary)
Gindy, Nabil N. Z. *see* **Baykasoğlu, Adil**
Girlich, Eberhard (*with* Höding, Michael; Zaporozhets, Alexander; Chubanov, Sergei) A greedy algorithm for capacitated lot-sizing problems. (English summary) **2004b:90169**
Glebov, N. I. On conditions for the solvability of optimization problems by a greedy algorithm. (Russian. Russian summary)
Glibovets′, Mikola M. (*with* Medvid′, S. A.) Genetic algorithms and their use in the solution of the scheduling problem. (Russian. English and Ukrainian summaries)
Goel, Tushar *see* **Deb, Kalyanmoy, (2004f:90008)**
Gómez López, Susana (*with* del Castillo, Nelson; Castellanos Noda, Longina; Solano, Julio) The parallel tunneling method. (English summary) **2004d:90137**
Gonçalves, M. B. *see* **de Vicente, A.**
Groşan, Crina *see* **Dumitrescu, Dumitru T. et al.**
Guénoche, Alain Partitions optimisées selon différents critères: évaluation et comparaison. (English and French summaries) [Partitions optimized according to different criteria: evaluation and comparison]
Guo, Guan Qi *see* **Yu, Shou Yi**
Habet, Djamal *see* **Vasquez, Michel et al.**
Hamda, Hatem (*with* Schoenauer, Marc) Topological optimum design with evolutionary algorithms. (English summary) **2004b:90170**
Han, Jing (*with* Cai, Qing Sheng) Emergence from local evaluation function. (English summary) **2004h:90107**
Hart, Emma *see* **Ross, Peter, (2004f:90008)**
Hartl, Richard F. *see* **Doerner, Karl F. et al., 2004i:90195**
He, S. (*with* Prempain, E.; Wu, Qing-He) An improved particle swarm optimizer for mechanical design optimization problems. (English summary)
He, Wei[5] Generalized time-invariant noise algorithm and related bifurcation problems. (Chinese. English summary)
Hedar, Abdel-Rahman (*with* Fukushima, Masao F.) Minimizing multimodal functions by simplex coding genetic algorithm. (English summary) **2004f:90175**
Hertz, Alain *see* **Avanthay, Cédric et al.**
Hifi, Mhand (*with* M'Hallah, Rym) A hybrid algorithm for the two-dimensional layout problem: the cases of regular and irregular shapes. (English summary)
Hinterding, Robert *see* **Michalewicz, Zbigniew et al., (2004f:90008)**
Hirabayashi, Hisayuki *see* **Katayama, Kengo et al., 2004k:90173**
Hiroyasu, Tomoyuki *see* **Miki, Mitsunori et al.**
Höding, Michael *see* **Girlich, Eberhard et al., 2004b:90169**
Hsu, Yeh-Liang (*with* Wang, Shu-Gen; Yu, Chia-Chieh) A sequential approximation method using neural networks for engineering design optimization problems. (English summary)
Hu, Jin Song (*with* Zheng, Qi Lun) Analyzing faults of GA by extremum element assembling. (Chinese. English and Chinese summaries)
Huang, Lan (*with* Wang, Kang Ping; Zhou, Chun Guang; Pang, Wei; Dong, Long Jiang; Peng, Li) Particle swarm optimization for traveling salesman problems. (Chinese. English and Chinese summaries)
Iwamura, Kakuzo *see* **Okada, Norio et al.**
Jacobson, Sheldon H. *see* **Fleischer, M. A., 2004b:90168** *and* **Vaughan, Diane E.**
Jansen, Thomas *see* **Droste, Stefan et al., (2004a:00018)**
Janssens, Gerrit K. *see* **Sörensen, Kenneth**
Jaszkiewicz, Andrzej (*with* Kominek, Paweł) Genetic local search with distance preserving recombination operator for a vehicle routing problem. (English summary)
— On the computational efficiency of multiple objective metaheuristics. The knapsack problem case study. (English summary)
Ji, Li Jiu *see* **Cui, Peng et al.**
Jiménez, Fernando *see* **Cadenas, José M. et al., (2004f:90009)**
Joines, Jeffrey A. (*with* Kay, Michael G.) Utilizing hybrid genetic algorithms. (English summary) (*see* **2004f:90008**)
Júdice, Joaquim J. *see* **Figueiredo, Isabel M. N. et al., 2004i:90196**
Kanarachos, A. (*with* Koulocheris, D.; Vrazopoulos, H.) Evolutionary algorithms with deterministic mutation operators used for the optimization of the trajectory of a four-bar mechanism. (English summary)
Kang, Li-shan *see* **Cao, Hongqing et al.**; **Zou, Xiufen et al.** *and* **Xie, Tao et al.**
Katayama, Kengo (*with* Hirabayashi, Hisayuki; Narihisa, Hiroyuki) Analysis of crossovers and selections in a coarse-grained parallel genetic algorithm. (English summary) **2004k:90173**
— *see also* **Kohmoto, Keiko et al., 2004k:90174**
Kay, Michael G. *see* **Joines, Jeffrey A., (2004f:90008)**
Keane, Andy J. *see* **Leary, Stephen J. et al., 2004b:90171**
Kim, Kap Hwan *see* **Kim, Ki Young**
Kim, Ki Young (*with* Kim, Kap Hwan) Heuristic algorithms for routing yard-side equipment for minimizing loading times in container terminals. (English summary)
Kohmoto, Keiko (*with* Katayama, Kengo; Narihisa, Hiroyuki) Performance of a genetic algorithm for the graph partitioning problem. (English summary) **2004k:90174**
Koller, A. E. (*with* Noble, Steven) Domination analysis of greedy heuristics for the frequency assignment problem. (English summary) **2004i:90197**
Kominek, Paweł *see* **Jaszkiewicz, Andrzej**
Koulocheris, D. *see* **Kanarachos, A. et al.**
Kovačević-Vujčić, V. *see* **Mladenović, Nenad et al.**
Kureĭchik, V. M. *see* **Zinchenko, L. A.**
Laguna, Manuel *see* **Martí, Rafael, 2004c:90109**
Lampinen, Jouni *see* **Zelinka, Ivan et al., (2004c:62006)** *and* **Fan, Hui-Yuan**
Laskari, E. C. (*with* Parsopoulos, K. E.; Vrahatis, Michael N.) Evolutionary operators in global optimization with dynamic search trajectories. (English summary) **2004m:90239**
Lavor, C. (*with* Carvalho, L. M.; Maculan, Nelson) A deterministic global optimization method. (Portuguese. English and Portuguese summaries)
— *see also* **Barbosa, Helio J. C. et al.**
Leary, Stephen J. (*with* Bhaskar, Atul; Keane, Andy J.) A knowledge-based approach to response surface modelling in multifidelity optimization. (English summary) **2004b:90171**
Ledford, J. S. *see* **Mergenthaler, W. et al.**
Lee, Byung Chai *see* **Oh, Seung Hwan**
Lee, Chungnan *see* **Ting, Chuan-Kang et al.**
Lemonge, Afonso C. C. *see* **Barbosa, Helio J. C.**
Lewis, Robert Michael *see* **Dolan, Elizabeth D. et al., 2004m:90238**
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Morgan, P. H. *see* **Curry, B.**
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Narihisa, Hiroyuki *see* **Katayama, Kengo et al., 2004k:90173** *and* **Kohmoto, Keiko et al., 2004k:90174**
Naumann, Uwe Cheaper Jacobians by simulated annealing. (English summary) **2004c:90110**
Noble, Steven *see* **Koller, A. E., 2004i:90197**
Nolle, Lars *see* **Zelinka, Ivan et al., (2004c:62006)**
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Oltean, Mihai *see* **Dumitrescu, Dumitru T. et al.**
Ono, Keiko *see* **Miki, Mitsunori et al.**
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Percus, Allon G. *see* **Boettcher, Stefan, (2004b:90006)**
Petrović, J. *see* **Mladenović, Nenad et al.**
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Pinho de Sousa, Jorge *see* **Viana, Ana et al.**
Plana, Isaac *see* **Piñana, Estefanía et al.**
Prempain, E. *see* **He, S. et al.**
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Reimann, Marc *see* **Doerner, Karl F. et al., 2004i:90195**
Rodríguez Martín, Inmaculada *see* **Moreno Pérez, José A. et al.**
Rohe, André *see* **Fekete, Sándor P. et al., 2004d:90136**
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Schoen, Fabio *see* **Locatelli, Marco, 2004i:90198**
Schoenauer, Marc *see* **Hamda, Hatem, 2004b:90170** *and* **Auger, Anne et al., (2004j:00023)**
Schönemann, Lutz *see* **Beielstein, Thomas et al., (2004a:00018)**
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Sinha, Manish *see* **Achenie, Luke E. K.**
Solano, Julio *see* **Gómez López, Susana et al., 2004d:90137**
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Weinert, Klaus *see* **Beielstein, Thomas et al., (2004a:00018)**
White, Chelsea C., III *see* **Lin, Alex Z.-Z. et al., (2004f:90008)**
Wiesmann, Dirk *see* **Beielstein, Thomas et al., (2004a:00018)**
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Wu, Qi Di *see* **Li, Bing Yu et al.**
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Yang, Laurence Tianruo *see* **Lin, Man**
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Zhou, Chun Guang *see* **Huang, Lan et al.**
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Zimmermann, Jürgen *see* **Selle, Thomas, 2004a:90121**
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Angün, Ebru *see* **Kleijnen, Jack P. C. et al.**
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Azcárate Camio, Cristina *see* **Alberto, I. et al.**, (**2004h:00021**)
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Ben-Israel, Adi *see* **Levin, Yu. G.**, **2004i:90072**
Benmohamed, Mohamed *see* **Rebaiaia, Mohamed Larbi et al.**
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Bierwirth, Christian *see* **Mattfeld, Dirk C.**
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Braun, Oliver (*with* Schmidt, Günter Joachim) Parallel processor scheduling with limited number of preemptions. (English summary) **2004i:90033**
Bräysy, Olli *see* **Dullaert, Wout**
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Caballero Fernández, Rafael E. (*with* Hernández, Monica) The controlled estimation method in the multiobjective linear fractional problem. (English summary) **2004k:90104**
Cadenas, José M. *see* **Jiménez, Fernando et al.**, **2004d:90141** *and* (**2004f:90009**)
Cao, Hongqing (*with* Kang, Li-shan; Chen, Yu Ping; Guo, Tao) The dynamic evolutionary modeling of HODEs for time series prediction. (English summary) **2004i:37159**
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Caprara, Alberto (*with* Monaci, Michele; Toth, Paolo) Models and algorithms for a staff scheduling problem. (English summary) **2004i:90067**
Captivo, Maria Eugénia *see* **Cortinhal, Maria João** *and* **Correia, Isabel**
Carlier, Jacques *see* **Baptiste, Philippe et al.**
Carlyle, W. Matthew *see* **Mason, Scott J. et al.**, **2004e:90042**
Carpio, J. *see* **Rivas, Víctor M. et al.**
Carrasco, M. P. (*with* Pato, M. V.) A comparison of discrete and continuous neural network approaches to solve the class/teacher timetabling problem. (English summary) **2004k:90040**
Casado, L. G. (*with* García-Fernández, I.; Csendes, Tibor; Ruíz, V. G.) Heuristic rejection in interval global optimization. (English summary) **2004f:90107**
Castillo, P. A. *see* **Rivas, Víctor M. et al.**
Caticha, Nestor *see* **Neirotti, Juan Pablo**, **2004c:68120**
Cerulli, Raffaele (*with* Festa, Paola; Raiconi, Giancarlo) Shortest path auction algorithm without contractions using virtual source concept. (English summary) **2004j:90132**
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Chakraborty, Uday K. (*with* Janikow, Cezary Z.) An analysis of Gray versus binary encoding in genetic search. (English summary) **2004i:68185**
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Chang, Cheng-Chang The centralized sequential investment problem with regional characteristics effect by using genetic algorithms. (English summary) **2004j:91120**
Chang, Chunlan *see* **Deng, Jyh-Jeng et al.**
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Cheng, T. C. Edwin (*with* Shakhlevich, N. V.) Single machine scheduling of unit-time jobs with controllable release dates. (English summary) **2004g:90038**
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Cheng, Xiuzhen *see* **Butenko, Sergiy et al.**, (**2004k:90008**)
Cheong, Otfried *see* **Ahn, Hee-Kap et al.**, **2004c:68138**
Chiarandini, Marco *see* **Paquete, Luis et al.**, (**2004m:90003**)
Choi, Dongwook *see* **Choi, Gyuho et al.**
Choi, Gyuho (*with* Choi, Dongwook; Kim, Youdan) Optimum design of neural networks for a nonlinear flight control system. (English summary)
Chou, Cheng-Feng Mabel (*with* Queyranne, Maurice; Simchi-Levi, David) The asymptotic performance ratio of an on-line algorithm for uniform parallel machine scheduling with release dates. (English summary) **2004j:90039**
Christofides, Alexander *see* **Christofides, Simon et al.**
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Christofides, Simon (*with* Christofides, Alexander; Christofides, Nicos) The design of corporate tax structures. (English summary)
Chrobok, R. (*with* Kaumann, O.; Wahle, J.; Schreckenberg, M.) Different methods of traffic forecast based on real data. (English summary)
Chueh, Chung-Huei *see* **Luh, Guan-Chun et al.**
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Dauzère-Pérès, Stéphane *see* **Sevaux, Marc**
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Dell'Olmo, Paolo (*with* Lulli, Guglielmo) Planning activities in a network of logistic platforms with shared resources. (English summary)
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Devillers, Olivier (*with* Preparata, Franco P.) Culling a set of points for roundness or cylindricity evaluations. (English summary) **2004d:68164**
Do, Van Ha *see* **Oğuz, Ceyda et al.**, **2004g:90048**
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Drake, P. R. *see* **Sadegheih, A.**, (**2004i:00008**)
Drezner, Zvi A new genetic algorithm for the quadratic assignment problem. (English summary) **2004f:90096**
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Duni Ekşioğlu, Sandra *see* **Ekşioğlu, Burak et al.**, **2004m:90171**
Edmonds, Jeff (*with* Pruhs, Kirk R.) Multicast pull scheduling: when fairness is fine. (English summary) **2004i:90038**
Ekşioğlu, Burak (*with* Duni Ekşioğlu, Sandra; Pardalos, Panos M.) Solving large scale

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Fernández, Jesús *see* **Vales-Alonso, Javier et al., 2004d:90145**

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Fowler, John W. *see* **Mason, Scott J. et al., 2004e:90042**

Frost, Richard *see* **Salamon, Peter et al., 2004k:90006**

Fujii, Sadao *see* **Watanabe, Michiko et al.**

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Ghosh, Diptesh Neighborhood search heuristics for the uncapacitated facility location problem. (English summary) **2004e:90056**

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Glover, Fred *see* **Laguna, Manuel, 2004j:90005** *and* **Yagiura, Mutsunori et al.**

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Hasnah, Ahmad M. *see* **Rebaiaia, Mohamed Larbi et al.**

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den Hertog, Dick *see* **Kleijnen, Jack P. C. et al.**

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Ishii, Hiroaki[1] *see* **Yoon, Moon-Gil**

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Jaam, Jihad Mohamad *see* **Rebaiaia, Mohamed Larbi et al.**

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Janikow, Cezary Z. *see* **Chakraborty, Uday K., 2004i:68185**

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Jin, Seung-Bo *see* **Kwon, Young-Doo et al., 2004e:90126**

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Júdice, Joaquim J. *see* **Costa, L. et al.**

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Király, Zoltán *see* **Józsa, Balázs Gábor et al., 2004d:90115**

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Korolev, L. N. Some methods for the "normalization" of images. (Russian. Russian summary)
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Kovalëv, M. Ya. (*with* Potts, Chris N.; Strusevich, V. A.) Batching decisions for assembly production systems. (English summary) **2004m:90048**
Krasnogor, Natalio (*with* Pelta, David A.) Fuzzy memes in multimeme algorithms: a fuzzy-evolutionary hybrid. (English summary) (*see* **2004f:90009**)
Kreipl, Stephan *see* **Yang, Ya et al.**
Krishnamurti, Ramesh *see* **Kohli, Rajeev et al., 2004i:90071**
Kruzelecki, Jacek *see* **Barski, Marek**
Kuznetsov, S. V. *see* **Romanovskiĭ, I. V., 2004d:90116**
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Kwon, Young-Doo (*with* Kwon, Soon-Bum; Jin, Seung-Bo; Kim, Jae-Yong) Convergence enhanced genetic algorithm with successive zooming method for solving continuous optimization problems. (English summary) **2004e:90126**
Labbé, Martine *see* **Mladenović, Nenad et al., 2004e:90099** *and* **Fortz, Bernard, 2004j:90015**
Laburthe, François *see* **Focacci, Filippo et al., (2004k:90007)**
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Lamont, Gary B. *see* **Coello Coello, Carlos A. et al., 2004h:90003**
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Laporte, Gilbert *see* **Gendreau, Michel et al., 2004k:90058** *and* **Cordeau, Jean-François**
Leal, R. P. *see* **Costa, L. et al.**
Lecocq, H. *see* **Bouleimen, K.**
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Le Thi Hoai An Solving large scale molecular distance geometry problems by a smoothing technique via the Gaussian transform and D.C. programming. (English summary) **2004h:90058**
Leung, Joseph Y.-T. *see* **Yang, Jian[4], 2004f:90075**
Levin, Asaf *see* **Hassin, Refael, 2004k:90101**
Levin, Yu. G. (*with* Ben-Israel, Adi) A heuristic method for large-scale multi-facility location problems. (English summary) **2004i:90072**
Lewis, Harold W., III *see* **Yokoyama, Masao**
Li, An *see* **Wong, Kit Po, (2004f:90008)**
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Liao, Xiao Feng *see* **Li, Chunguang et al.**
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Liu, Wei-Wen *see* **Luh, Guan-Chun et al.**
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Liu, Zhaohui *see* **Cheng, T. C. Edwin, 2004d:90029**
Lodi, Andrea *see* **Focacci, Filippo et al., (2004k:90007)**
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Lutton, Evelyne *see* **Hamda, Hatem et al., (2004h:65006)**
Ma, Shao Han *see* **Zhang, Hong Liang et al., 2004m:68290**
Ma, Wei (*with* Wang, Zheng-Ou) A new chaotic parameters disturbance annealing neural network for solving global optimization problems. (English summary) **2004m:82116**
Maffioli, Francesco *see* **Cappanera, Paola et al., 2004k:90055**
Magyar, Gábor *see* **Józsa, Balázs Gábor et al., 2004d:90115**
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Marks, Robert E. Playing games with genetic algorithms. (English summary) **2004a:91001**
Martello, Silvano *see* **Iori, Manuel et al., (2004b:90008)**
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Mason, Scott J. (*with* Fowler, John W.; Carlyle, W. Matthew) A modified shifting bottleneck heuristic for minimizing total weighted tardiness in complex job shops. (English summary) **2004e:90042**
Masutti, Oliver *see* **Zumbach, Gilles et al., 2004j:91161**
Mateo, P. M. *see* **Alberto, I. et al., (2004h:00021)**
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Merelo, J. J. *see* **Rivas, Víctor M. et al.**
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M'Hallah, Rym *see* **Bulfin, R. L., 2004f:90040**
Migdalas, Athanasios *see* **Ekşioğlu, Burak et al., (2004b:90008)**
Mika, Marek *see* **Józefowska, Joanna et al., 2004i:90041**
Mingozzi, A. *see* **Boschetti, M. A. et al.**
Mirchandani, Prakash *see* **Kohli, Rajeev et al., 2004i:90071**
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Miyazawa, F. K. (*with* Wakabayashi, Y.) Parametric on-line algorithms for packing rectangles and boxes. (English summary) **2004c:90050**
Mladenović, Nenad (*with* Labbé, Martine; Hansen, Pierre) Solving the p-center problem with tabu search and variable neighborhood search. (English summary) **2004e:90099**
(Mohammadian, Masoud) *see* **Evolutionary optimization, 2004f:90008**
Monaci, Michele *see* **Caprara, Alberto et al., 2004i:90067** *and* **Iori, Manuel et al., (2004b:90008)**
Monteiro, Renato D. C. *see* **Burer, Samuel et al., 2004d:90114**
Moreno Pérez, José A. (*with* Moreno Vega, J. Marcos) Fuzzy constructive heuristics. (English summary) (*see* **2004f:90009**)
Moreno Vega, J. Marcos *see* **Moreno Pérez, José A., (2004f:90009)**
Moriguchi, Satoko (*with* Shioura, Akiyoshi) On Hochbaum's proximity-scaling algorithm for the general resource allocation problem. (English summary)
Munier Kordon, Alix *see* **Baptiste, Philippe et al.**
Musliu, Nysret (*with* Schaerf, Andrea; Slany, Wolfgang) Local search for shift design. (English summary)
Myshetskaya, E. E. *see* **Sobol', I. M., 2004c:90062**
Nagarur, Nagendra N. *see* **Van Hop, Nguyen**
Nauss, Robert M. Solving the generalized assignment problem: an optimizing and heuristic approach. (English summary) **2004d:90043**
Neirotti, Juan Pablo (*with* Caticha, Nestor) Dynamics of the evolution of learning algorithms by selection. (English summary) **2004c:68120**
Newall, J. P. *see* **Burke, Edmund K.**
Niwa, Akira *see* **Ikegami, Atsuko, 2004g:90042**
Norman, Bryan A. *see* **Smith, Alice E., (2004f:90008)**
Norre, Sylvie *see* **Gourgand, Michel et al.**
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Oğuz, Osman *see* **Ouveysi, Iradj et al.**
Olinick, Eli V. *see* **Kennington, Jeffery L.**
Oliveira, Carlos A. S. *see* **Butenko, Sergiy et al., (2004k:90008)**
Oliveira, Pedro N. *see* **Costa, L. et al.**
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Östermark, Ralf A multipurpose parallel genetic hybrid algorithm for non-linear non-convex programming problems. (English summary)
Ouorou, Adam Epsilon-proximal decomposition method. (English summary) **2004j:90081**
Ouveysi, Iradj (*with* Wirth, Andrew; Yeh, Annie; Oğuz, Osman) Large scale linear programs and heuristics for the design of survivable telecommunication networks. (English summary)
Ouzia, Hacene *see* **Haddadi, Salim**
Owens, David H. *see* **Hatzikos, V. et al.**
Paletta, Giuseppe (*with* Triki, Chefi) Solving the asymmetric traveling salesman problem with periodic constraints. (English summary)
Pallottino, Stefano *see* **Scaparra, Maria Paola et al.**
Paquete, Luis (*with* Chiarandini, Marco; Stützle, Thomas) Pareto local optimum sets in the biobjective traveling salesman problem: an experimental study. (English summary) (*see* **2004m:90003**)
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Paschos, Vangelis Th. *see* **Bazgan, Cristina, 2004b:90091** *and* **Della Croce, Federico et al., 2004m:90041**
Pato, M. V. *see* **Carrasco, M. P., 2004k:90040**
(Pearson, David W.) *see* **Artificial neural nets and genetic algorithms, 2004j:68003**
Pelikan, Martin (*with* Goldberg, David E.; Tsutsui, Shigeyoshi) Getting the best of both worlds: discrete and continuous genetic and evolutionary algorithms in concert. (English summary)
Pelta, David A. *see* **Blanco, Armando et al., (2004f:90009)** *and* **Krasnogor, Natalio, (2004f:90009)**
Perin, C. *see* **Podestá-Gomes, V.**
Petch, R. J. (*with* Salhi, S.) A multi-phase constructive heuristic for the vehicle routing problem with multiple trips. (English summary) **2004k:90102**
Petrovic, Sanja *see* **Timetabling and rostering** *and* **Silva, J. Dario Landa et al., (2004m:90003)**

Pham Huy Dien *see* **Do Xuan Duong**
Pictet, Olivier V. *see* **Zumbach, Gilles et al., 2004j:91161**
Pinedo, Michael *see* **Yang, Ya et al.**
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Pongcharoen, P. (*with* Hicks, Christian; Braiden, P. M.) The development of genetic algorithms for the finite capacity scheduling of complex products, with multiple levels of product structure. (English summary)
Potts, Chris N. *see* **Kovalëv, M. Ya. et al., 2004m:90048**
Potvin, Jean-Yves *see* **Gendron, Bernard et al., 2004k:90059**
Preparata, Franco P. *see* **Devillers, Olivier, 2004d:68164**
Prügel-Bennett, Adam *see* **Glass, Celia A., 2004k:05086**
Pruhs, Kirk R. *see* **Edmonds, Jeff, 2004i:90038**
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Queen, N. M. *see* **Salhi, S.**
Queyranne, Maurice *see* **Margot, François et al., 2004i:90051** *and* **Chou, Cheng-Feng Mabel et al., 2004j:90039**
Ragsdale, Cliff T. *see* **Bergey, Paul K. et al.**
Raiconi, Giancarlo *see* **Cerulli, Raffaele et al., 2004j:90132**
Rajendran, Chandrasekharan (*with* Ziegler, Hans[2]) Anti-colony algorithms for permutation flowshop scheduling to minimize makespan/total flowtime of jobs. (English summary)
Ranjithan, S. Ranji *see* **Zechman, Emily M.**
Raphael, Benny (*with* Smith, I. F. C.) A direct stochastic algorithm for global search. (English summary)
Rardin, Ronald L. *see* **Ghashghai, Elham, (2004f:90008)**
Razzhevaĭkin, V. N. (*with* Shpitonkov, M. I.) Model justification of correlation adaptometry using evolutionary optimality methods. (Russian. Russian summary)
Rebaiaia, Mohamed Larbi (*with* Benmohamed, Mohamed; Jaam, Jihad Mohamad; Hasnah, Ahmad M.) Verification-based algorithms for integer programming and genetic algorithms. (English summary)
Resende, Mauricio G. C. *see* **Festa, Paola et al., 2004a:90103**
Ribeiro, Bernardete *see* **Lopes, Noel**
Ribeiro, C. C. *see* **Festa, Paola et al., 2004a:90103**
Ribeiro, Rita Almeida (*with* Varela, Leonilde Rocha) Fuzzy optimization using simulated annealing: an example set. (English summary) (*see* **2004f:90009**)
Ricciardelli, S. *see* **Boschetti, M. A. et al.**
Rivas, Víctor M. (*with* Merelo, J. J.; Rojas, I.; Romero, G.; Castillo, P. A.; Carpio, J.) Evolving two-dimensional fuzzy systems. (English summary)
Rizzi, Romeo On Rajagopalan and Vazirani's $\frac{3}{2}$-approximation bound for the iterated 1-Steiner heuristic. (English summary) **2004f:68120**
Rodrigues, Brian *see* **Lim, Andrew L. C. et al.**
Rojas, I. *see* **Rivas, Víctor M. et al.**
Romanovskiĭ, I. V. (*with* Kuznetsov, S. V.) Main algorithms and approaches to the solution of the k-version of minimal spanning tree problem. (English summary) **2004d:90116**
Romeijn, H. Edwin *see* **Chaovalitwongse, Paveena et al., (2004h:91006)**
Romero, Carlos E. Mariano *see* **Coello Coello, Carlos A., (2004g:90007)**
Romero, G. *see* **Rivas, Víctor M. et al.**
Roth, R. N. *see* **Shan, A. et al.**
Rothlauf, Franz ★ Representations for genetic and evolutionary algorithms. **2004a:68124**
Rozenberg, Grzegorz *see* **Bäck, Thomas et al., (2004i:68003)**
Różycki, Rafał *see* **Józefowska, Joanna et al., 2004i:90041**
Ruiz, V. G. *see* **Casado, L. G. et al., 2004f:90107**
Runarsson, Thomas (*with* Yao, Xin) Constrained evolutionary optimization—the penalty function approach. (English summary) (*see* **2004f:90008**)
Sadegheih, A. (*with* Drake, P. R.) Minimum cost flow planning using mathematical programming and genetic algorithm. (English summary) (*see* **2004i:00008**)
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Sánchez, Gracia *see* **Jiménez, Fernando et al., 2004d:90141** *and* **(2004f:90009)**
Sansó, Brunilde *see* **Toulouse, Michel et al., 2004k:90103**
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Sarker, Ruhul (*with* Coello Coello, Carlos A.) Assessment methodologies for multiobjective evolutionary algorithms. (English summary) (*see* **2004f:90008**)
— *see also* **Evolutionary optimization, 2004f:90008**
Sathikannan, Ramasubramanian *see* **Tan, Kay Chen et al.**
Saxena, Barkha *see* **Iyer, Srikanth K., 2004m:90044**
Sayın, Serpil A procedure to find discrete representations of the efficient set with specified coverage errors. (English summary) **2004d:90088**
Sayyar-Roudsari, Bijan *see* **Ahmadzadeh, Ali et al., (2004k:90008)**
Scaparra, Maria Paola (*with* Pallottino, Stefano; Scutellà, Maria Grazia) Large-scale local search heuristics for the capacitated vertex p-center problem. (English summary)
Schaerf, Andrea *see* **Musliu, Nysret et al.**
Schippers, C. A. Multi-parent scanning crossover and genetic drift. (English summary) **2004b:92019**
Schmidt, Günter Joachim *see* **Braun, Oliver, 2004i:90033**
Schoenauer, Marc *see* **Hamda, Hatem et al., (2004h:65006)**
Schreckenberg, M. *see* **Chrobok, R. et al.**
Schulz, Andreas S. *see* **Baptiste, Philippe et al.**
Schumacher, Doris *see* **Brucker, Peter**
(Schwefel, Hans-Paul) *see* **Advances in computational intelligence, 2004a:00018**
Scutellà, Maria Grazia *see* **Scaparra, Maria Paola et al.**
Sebag, Michèle *see* **Hamda, Hatem et al., (2004h:65006)**
Semet, Frédéric *see* **Gendreau, Michel et al., 2004k:90058**
Sevast′yanov, S. V. Geometrical heuristics for multiprocessor flowshop scheduling with uniform machines at each stage. (English summary) **2004e:90044**
Sevaux, Marc (*with* Dauzère-Pérès, Stéphane) Genetic algorithms to minimize the weighted number of late jobs on a single machine. (English summary)
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Shakhlevich, N. V. *see* **Cheng, T. C. Edwin, 2004g:90038**
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Shen, Pei Ping (*with* Zhang, Ke Cun) An interval slope method for global minimizers of multimodal functions of several variables. (Chinese. English summary) **2004f:90132**
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Shin, Chan-Su *see* **Ahn, Hee-Kap et al., 2004c:68138**
Shioura, Akiyoshi *see* **Moriguchi, Satoko**
Shpitonkov, M. I. *see* **Razzhevaĭkin, V. N.**
Sibani, Paolo *see* **Salamon, Peter et al., 2004k:90006**
Sigal, I. Kh. Parametrization of ε-approximate algorithms for solving some classes of large-scale discrete optimization problems. (Russian. Russian summary) **2004d:90074**
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Simchi-Levi, David *see* **Chou, Cheng-Feng Mabel et al., 2004j:90039**
Sirakaya, Sibel *see* **Alemdar, Nedim M., 2004a:91016**
Slany, Wolfgang *see* **Musliu, Nysret et al.**
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Smith, I. F. C. *see* **Raphael, Benny**
Sobol′, I. M. (*with* Myshetskaya, E. E.) Convergence examples for discrete approximations to the multidimensional Pareto set. (Russian. English and Russian summaries) **2004c:90062**
Song, Shi Ji *see* **Zhang, Long et al.**
Sörensen, Kenneth *see* **Metaheuristics for multiobjective optimisation, 2004m:90003** *and* **Sevaux, Marc**
Soriano, Patrick *see* **Gendron, Bernard et al., 2004k:90059** *and* **Fortz, Bernard et al.**
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Stachniak, Zbigniew Polarity-based stochastic local search algorithms for non-clausal satisfiability. (English summary) **2004e:03023**
(Steele, Nigel C.) *see* **Artificial neural nets and genetic algorithms, 2004j:68003**
Steiner, George *see* **Cheng, Jinliang et al., (2004f:90009)**
Stephen, Tamon *see* **Barvinok, A. I., 2004b:90077** *and* **(2004a:00021)**
Stephenson, Paul A. *see* **Cheng, Jinliang et al., (2004f:90009)**
Stevens, Soraya *see* **Whitley, Darrell et al.**
Strusevich, V. A. *see* **Kovalëv, M. Ya. et al., 2004m:90048**
Stützle, Thomas *see* **Paquete, Luis et al., (2004m:90003)**
Su, Wei Ling (*with* Zheng, Pi E; Li, Tong[3]) A global optimization method for nonlinear bilevel integer programming. (Chinese. English and Chinese summaries)
Sudkamp, Thomas *see* **Spiegel, Daniel**
Sun, Chang Zhi *see* **Shi, Hong Yan et al.**
Sun, Yao *see* **Wang, Guo Fu et al.**
Sung, Hua-Jung *see* **Lee, Wen-Chiung et al., 2004k:90044**
Syarif, Admi *see* **Gen, Mitsuo, (2004f:90009)**
Szakacs, Laura Different approaches to automatic systolic array design. (English summary)
Szentesi, Áron *see* **Józsa, Balázs Gábor et al., 2004d:90115**
Takatori, Norihiko *see* **Watanabe, Michiko et al.**
Tan, Kay Chen (*with* Khor, Eik Fun; Lee, Tong Heng; Sathikannan, Ramasubramanian) An evolutionary algorithm with advanced goal and priority specification for multi-objective optimization. (English summary)
Tang, Qing Song *see* **Zhang, Xiang De**
Teo, Kok Lay *see* **Li, Shengjie et al., 2004k:90091**
Thornton, Henry W. (*with* Hunsucker, John L.) A new heuristic for minimal makespan in flow shops with multiple processors and no intermediate storage. (English summary) **2004g:90051**
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Tokinaga, Shozo (*with* Tominaga, Makoto) An improvement method for the workflow management systems based on the reallocation of flows using the genetic programming and its applications. (English summary)
Tominaga, Makoto *see* **Tokinaga, Shozo**
Toth, Paolo *see* **Caprara, Alberto et al., 2004i:90067**
Toulouse, Michel (*with* Crainic, Teodor Gabriel; Sansó, Brunilde) Systemic behavior of cooperative search algorithms. (English summary) **2004k:90103**
Triki, Chefi *see* **Paletta, Giuseppe**
Tsitsiklis, John N. *see* **Marbach, Peter, 2004a:93097**
Tsutsui, Shigeyoshi *see* **Pelikan, Martin et al.**
(Uthmann, Thomas) *see* **Dauscher, Peter, 2004k:68143**
Vales-Alonso, Javier (*with* Fernández, Jesús; González-Castaño, Francisco J.; Caballero, Armando) A parallel optimization approach for controlling allele diversity in conservation schemes. (English summary) **2004d:90145**
Van Hop, Nguyen (*with* Nagarur, Nagendra N.) The scheduling problem of PCBs for multiple non-identical parallel machines. (English summary)
Van Veldhuizen, David A. *see* **Coello Coello, Carlos A. et al., 2004h:90003**
Varela, Leonilde Rocha *see* **Ribeiro, Rita Almeida, (2004f:90009)**

Verdegay, José-Luis *see* **Jiménez, Fernando et al., 2004d:90141**; **Fuzzy sets based heuristics for optimization, 2004f:90009** *and* **Blanco, Armando et al., (2004f:90009)**
Vetro, Calogero Flexible machine layout design approached by genetic algorithm and integer programming. (English summary)
Vilarinho, Pedro M. *see* **Xambre, Ana R.**
Vira, Chankong *see* **Yaoyuenyong, Kriangchai et al., 2004a:90109**
Volgenant, A. *see* **Duin, C. W. et al.**
Voß, Stefan *see* **Fink, Andreas** *and* **Duin, C. W. et al.**
Wahle, J. *see* **Chrobok, R. et al.**
Wakabayashi, Y. *see* **Miyazawa, F. K., 2004c:90050**
Waligóra, Grzegorz *see* **Józefowska, Joanna et al., 2004i:90041** *and* **2004k:90043**
Wandzura, Stephen (*with* Xiao, Hong[3]) Symmetric quadrature rules on a triangle. (English summary) **2004e:65026**
Wang, Feng-Sheng *see* **Lin, Yung-Chien et al.**
Wang, Guo Fu (*with* Wang, Yi[9]; Sun, Yao; Wang, Jing Min) Hybrid GA and SA for solving nonlinear constrained optimization problems. (Chinese. English and Chinese summaries)
Wang, Jing Min *see* **Wang, Guo Fu et al.**
Wang, Yaoguang *see* **Margot, François et al., 2004i:90051**
Wang, Yi[9] *see* **Wang, Guo Fu et al.**
Wang, Zheng-Ou *see* **Ma, Wei, 2004m:82116**
Wassan, Niaz A. *see* **Osman, Ibrahim H.**
Watanabe, Michiko (*with* Furukawa, Masashi; Kinoshita, Masahiro; Kawakami, Takashi; Takatori, Norihiko; Hama, Katsumi; Fujii, Sadao) Solving the job-shop problem by use of the immune algorithm. (Japanese. English summary)
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Węglarz, Jan *see* **Józefowska, Joanna et al., 2004i:90041** *and* **2004k:90043**
(Weinert, Klaus) *see* **Advances in computational intelligence, 2004a:00018**
Weismantel, Robert *see* **Köppe, Matthias, 2004i:90094**
Werner, Frank *see* **Gupta, Jatinder N. D. et al., 2004d:90031**
White, Chelsea C., III *see* **Lin, Zong-Zhi et al.**
White, George M. (*with* Xie, Bill S.; Zonjic, Stevan) Using tabu search with longer-term memory and relaxation to create examination timetables. (English summary) **2004k:90049**
Whitley, Darrell (*with* Heckendorn, Robert B.; Stevens, Soraya) Hyperplane ranking, nonlinearity and the simple genetic algorithm. (English summary)
Widmer, Marino *see* **Meta-heuristics in combinatorial optimization** *and* **Hertz, Alain**
Wilson, Richard J. *see* **Shan, A. et al.**
(Winfree, Erik) *see* **Evolution as computation, 2004i:68003**
Wirth, Andrew *see* **Ouveysi, Iradj et al.**
Wodecki, Mieczyslaw *see* **Grabowski, Józef**
Woeginger, Gerhard J. Inapproximability results for no-wait job shop scheduling. (English summary) **2004m:90058**
Wong, Chak Kuen *see* **Albrecht, Andreas, 2004k:90073**
Wong, Kit Po (*with* Li, An) Virtual population and acceleration techniques for evolutionary power flow calculation in power systems. (English summary) (*see* **2004f:90008**)
Wu, Cheng[3] *see* **Zhang, Long et al.**
Wu, Chin-Chia *see* **Lee, Wen-Chiung et al., 2004k:90044**
Wu, Dong Hua *see* **Lü, Yu Pei et al.**
Wu, Qi Di *see* **Chen, Xiong et al.**
Wu, Soon-Yi *see* **Li, Shengjie et al., 2004k:90091**
Wu, Tie Jun *see* **Li, Yan-Jun**
Wulkenhaar, Gunnar *see* **Gupta, Jatinder N. D. et al., 2004d:90031**
Wynants, Christelle *see* **Fortz, Bernard et al.**
Xambre, Ana R. (*with* Vilarinho, Pedro M.) A simulated annealing approach for manufacturing cell formation with multiple identical machines. (English summary)
Xiao, Fei *see* **Lim, Andrew L. C. et al.**
Xiao, Hong[3] *see* **Wandzura, Stephen, 2004e:65026**
Xie, Bill S. *see* **White, George M. et al., 2004k:90049**
Xu, Jun Wen (*with* Chen, Guo Qing) An entropy function method for mathematical programming with equilibrium constraints. (Chinese. English and Chinese summaries) **2004k:90162**
Yagiura, Mutsunori (*with* Ibaraki, Toshihide; Glover, Fred) An ejection chain approach for the generalized assignment problem. (English summary)
Yamaguchi, R. *see* **Yoshitomi, Yasunari**
Yang, Feng Xia *see* **Chen, Xiong et al.**
Yang, Hui (*with* Kang, Li-shan; Chen, Yu Ping) A gene-based genetic algorithm for TSP. (Chinese. English and Chinese summaries)
Yang, Jian[4] (*with* Leung, Joseph Y.-T.) The ordered open-end bin-packing problem. (English summary) **2004f:90075**
Yang, Qi Fan *see* **Shen, Hao et al.**
Yang, Qing Zhi (*with* Yu, Hong) Comparison between the entropy function method and several other optimization methods. (Chinese. English summary)
Yang, Xiao Qi *see* **Li, Shengjie et al., 2004k:90091**
Yang, Ya (*with* Kreipl, Stephan; Pinedo, Michael) Heuristics for minimizing total weighted tardiness in flexible flow shops. (English summary)
Yang, Zhongxiah *see* **Deng, Jyh-Jeng et al.**
Yao, Xin Evolutionary computation. (English summary) (*see* **2004f:90008**)
— *see also* **He, Jun, 2004c:68169**; **Evolutionary optimization, 2004f:90008** *and* **Runarsson, Thomas, (2004f:90008)**
Yaoyuenyong, Kriangchai (*with* Charnsethikul, Peerayuth; Vira, Chankong) A heuristic algorithm for the mixed Chinese postman problem. (English summary) **2004a:90109**
Yeh, Annie *see* **Ouveysi, Iradj et al.**
Yin, Ai-hua *see* **Huang, Wen Qi[1]**
Yokoyama, Masao (*with* Lewis, Harold W., III) Optimization of the stochastic dynamic production cycling problem by a genetic algorithm. (English summary)
Yoon, Moon-Gil (*with* Ishii, Hiroaki[1]) An efficient heuristic for traffic grooming and light-path routing in WDM ring networks with hop-count constraint. (English summary)
Yoshitomi, Yasunari (*with* Yamaguchi, R.) A genetic algorithm and the Monte Carlo method for stochastic job-shop scheduling. (English summary)
Yu, Hong *see* **Yang, Qing Zhi**
Yu, Juebang *see* **Li, Chunguang et al.**
Yu, Wu Yang *see* **Lü, Yu Pei et al.**
Yun, YoungSu (*with* Gen, Mitsuo) Performance analysis of adaptive genetic algorithms with fuzzy logic and heuristics. (English summary)
Zamani, Reza An efficient time-windowing procedure for scheduling projects under multiple resource constraints. (English summary)
Zechman, Emily M. (*with* Ranjithan, S. Ranji) An evolutionary algorithm to generate alternatives (EAGA) for engineering optimization problems. (English summary)
Zhang, Hong Liang (*with* Zhu, Da Ming; Ma, Shao Han) A new technique to design polynomial time approximation schemes in Euclidean spaces. (Chinese. English and Chinese summaries) **2004m:68290**
Zhang, Ke Cun *see* **Shen, Pei Ping, 2004f:90132**
Zhang, Long (*with* Song, Shi Ji; Liu, Lian Chen; Wu, Cheng[3]) Inventory management with setup cost and total minimum commitment. (Chinese. English and Chinese summaries)
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Zhang, Xiang De (*with* Tang, Qing Song) Deterministic annealing and its application to point matching. (Chinese. English and Chinese summaries)
Zhang, Yin[1] *see* **Burer, Samuel et al., 2004d:90114**
Zhao, Ruiqing (*with* Liu, Baoding) Redundancy optimization problems with uncertainty of combining randomness and fuzziness. (English summary)
Zheng, Pi E *see* **Su, Wei Ling et al.**
Zhu, Da Ming *see* **Zhang, Hong Liang et al., 2004m:68290**
Zhu, Yi[1] *see* **Lim, Andrew L. C. et al.**
Ziegler, Hans[2] *see* **Rajendran, Chandrasekharan**
Zinder, Yakov An iterative algorithm for scheduling UET tasks with due dates and release times. (English summary) **2004f:90061**
— *see also* **Oğuz, Ceyda et al., 2004g:90048**
Zonjic, Stevan *see* **White, George M. et al., 2004k:90049**
Zumbach, Gilles (*with* Pictet, Olivier V.; Masutti, Oliver) Genetic programming with syntactic restrictions applied to financial volatility forecasting. (English summary) **2004j:91161**

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Evolution as computation ★ Evolution as computation. **2004i:68003**
Evolutionary computation ★ Evolutionary computation.
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90C60 Abstract computational complexity for mathematical programming problems [see also 68Q25]

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Averbakh, Igor Minmax regret linear resource allocation problems. (English summary) **2004m:90240**
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Cieslik, Dietmar (*with* Dress, Andreas W. M.; Huber, Katharina; Moulton, Vincent) Embedding complexity and discrete optimization. I. A new divide and conquer approach to discrete optimization. (English summary) **2004k:90176**
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Coja-Oghlan, Amin Coloring k-colorable semirandom graphs in polynomial expected time via semidefinite programming. (English summary)
Cucker, Felipe *see* **Cheung, Dennis et al., 2004m:90241**
Dress, Andreas W. M. *see* **Cieslik, Dietmar et al., 2004k:90176** *and* **2004m:90242**
Du, Ding-Zhu *see* **Lu, Bing et al.**
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Moulton, Vincent *see* **Cieslik, Dietmar et al., 2004k:90176** *and* **2004m:90242**
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Shi, Shu Ming *see* **Yang, Guang Wen, 2004c:90112**
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Singer, Saša *see* **Singer, Sanja, 2004e:90171**
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Teng, Shang-Hua *see* **Spielman, Daniel A., 2004d:90138**
Tucker, Paul A. *see* **Hochbaum, Dorit S., 2004b:90173**
Tunçel, Levent *see* **Ho, Jackie C. K., 2004m:90243**
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Burer, Samuel Semidefinite programming in the space of partial positive semidefinite matrices. (English summary) **2004h:90045**
Burkard, Rainer E. *see* **Chen, Guang Ting, 2004k:05186**
Cai, Mao Cheng *see* **Fang, Qizhi et al., 2004g:91008** *and* **Zhang, Jian Zhong et al., 2004m:90018**
Cai, Xiao-Qiang *see* **Vairaktarakis, George L., 2004i:90061**
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Cardei, Mihaela (*with* Cheng, Xiuzhen; Cheng, Maggie Xiaoyan; Du, Ding-Zhu) A tale on guillotine cut. (English summary) **2004f:68188**
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Chlebíková, Janka *see* **Chlebík, Miroslav, (2004j:68002)**
Chung, Sung-Jin *see* **Hong, Sung-Pil et al., 2004i:90167**
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Confessore, Giuseppe (*with* Dell'Olmo, Paolo; Giordani, Stefano) Complexity and approximation results for scheduling multiprocessor tasks on a ring. (English summary) **2004k:90041**
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Dell'Olmo, Paolo *see* **Confessore, Giuseppe et al., 2004k:90041**
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Demange, Marc (*with* Monnot, Jérôme; Paschos, Vangelis Th.) Differential approximation results for the Steiner tree problem. (English summary) **2004e:90146**
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Dye, Shane (*with* Stougie, Leen; Tomasgard, Asgeir) The stochastic single resource service-provision problem. (English summary) **2004j:90022**
Elbassioni, Khaled M. *see* **Boros, Endre et al.**
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Fowler, John W. *see* **Mason, Scott J. et al., 2004e:90042**
Fu, Qingxiang *see* **Zhu, Wen Xing, 2004d:90067**
Fujishige, Satoru (*with* Iwata, Satoru) Bisubmodular function minimization. (English summary) (*see* **2004j:90010**)
Gao, Cheng Xiu *see* **Yang, Lei et al.**
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Gault, Richard *see* **Cohen, David A. et al., 2004j:68074**
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Ghosh, Jay B. *see* **Akturk, M. Selim et al.**
Gimadi, È. Kh. *see* **Baburin, A. E., 2004b:90090**
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Glineur, François Improving complexity of structured convex optimization problems using self-concordant barriers. (English summary) **2004a:90063**
Golden, Bruce L. *see* **Chandran, Bala et al., (2004b:90006)**
Gomboši, Matej (*with* Žalik, Borut) Analyzing changes between two sets of polygons using plane subdivision. (English summary)
Gonzalez, Jose Miguel *see* **Alejandre, J. L. et al., 2004j:90109**
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Huang, Scott C.-H. *see* **Min, Manki et al., 2004h:90061**
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Indyk, Piotr Better algorithms for high-dimensional proximity problems via asymmetric embeddings. (English summary) (*see* **2004a:68002**)
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Iwata, Satoru *see* **Fujishige, Satoru, (2004j:90010)**
Jagannathan, Raj On polynomial complexity of a stochastic algorithm for mixed zero-one programs. (English summary) **2004k:90079**
Janiak, Adam *see* **Cheng, T. C. Edwin et al., 2004f:90043**
Jeavons, Peter *see* **Cohen, David A. et al., 2004j:68074**
Kaplan, Adam *see* **Bozorgzadeh, Elaheh et al., (2004f:90010)**
Karpinski, Marek *see* **Engebretsen, Lars**
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Kastner, Ryan *see* **Bozorgzadeh, Elaheh et al., (2004f:90010)**
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Khachiyan, Leonid *see* **Boros, Endre et al.**
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Kis, Tamás On the complexity of non-preemptive shop scheduling with two jobs. (English summary) **2004i:90046**
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Kljajić, Miroljub *see* **Gradišar, Miro et al., 2004f:90073**
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Krisper, Marjan *see* **Kodek, Dušan M., 2004g:90034**
Kubiak, Wieslaw *see* **Brauner, Nadia et al., 2004d:90027**
Laber, Eduardo Sany *see* **Milidiú, Ruy Luiz et al., 2004f:90052**
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Larrosa, Javier (*with* Dechter, Rina) Boosting search with variable elimination in constraint optimization and constraint satisfaction problems. (English summary) **2004j:90158**
Lee, Tae-Eog *see* **Hall, Nicholas G. et al., 2004g:90041**
Lenstra, Jan Karel *see* **de Paepe, Willem E. et al.**
Liang, Zhi-An *see* **Huang, Hong-Xuan et al., 2004b:90081**
Liben-Nowell, David *see* **Demaine, Erik D. et al.**
Liu, Jian *see* **Min, Manki et al., 2004h:90061**
Liu, Zhaohui *see* **Cheng, T. C. Edwin et al., 2004g:90037**
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Middendorf, Martin (*with* Timkovskiĭ, V. G.) On scheduling cycle shops: classification, complexity and approximation. (English summary) **2004f:90050**
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Mori, Masao[1] *see* **Yajima, Yasutoshi et al., 2004j:90059**
Müller, Martin[2] *see* **Zhou, Jianjun, 2004m:90127**
Nagashima, Hiroyuki (*with* Yamazaki, Koichi) Hardness of approximation for non-overlapping local alignments. (English summary) **2004m:68076**
Nemirovskiĭ, Arkadii *see* **Ben-Tal, Aharon et al., 2004j:90057**
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Nicosia, Gaia *see* **Agnetis, Alessandro et al.**
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de Paepe, Willem E. (*with* Lenstra, Jan Karel; Sgall, Jiří; Sitters, René A.; Stougie, Leen) Computer-aided complexity classification of dial-a-ride problems. (English summary)
Pardalos, Panos M. *see* **Huang, Hong-Xuan et al., 2004b:90081**
Park, Bum Kwan *see* **Hong, Sung-Pil et al., 2004i:90167**
Paschos, Vangelis Th. *see* **Monnot, Jérôme et al., 2004a:90107; Bazgan, Cristina, 2004b:90091; Demange, Marc et al., 2004e:90146** *and* **Della Croce, Federico et al., 2004m:90041**
Peña, Javier F. A characterization of the distance to infeasibility under block-structured perturbations. (English summary) **2004f:15013**
Percus, Allon G. *see* **Aldous, David J., 2004g:90088**
Pessoa, Artur Alves *see* **Milidiú, Ruy Luiz et al., 2004f:90052**
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Resinovič, Gortan *see* **Gradišar, Miro et al., 2004f:90073**
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Santos, Eugene, Jr. *see* **Zhong, Xiaomin, (2004b:90006)**
Sarrafzadeh, Majid *see* **Bozorgzadeh, Elaheh et al., (2004f:90010)**
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Schuurman, Petra (*with* Woeginger, Gerhard J.) Polynomial time approximation algorithms for machine scheduling: ten open problems. (English summary)
Sgall, Jiří *see* **de Paepe, Willem E. et al.**
Shafranskiĭ, Ya. M. *see* **Cheng, T. C. Edwin et al., 2004g:90037** *and* **Gladkiĭ, A. A. et al.**
Shamardin, Yu. V. *see* **Dement'ev, V. T., 2004f:91096**
Shioura, Akiyoshi The MA-ordering max-flow algorithm is not strongly polynomial for directed networks. (English summary) **2004i:90172**
Sholomov, L. A. On complexity of minimization and compression problems for models of sequential choice. (English summary)
Shragowitz, Eugene *see* **Min, Manki et al., 2004h:90061**
Sierksma, Gerard *see* **Ghosh, Diptesh, 2004j:90088**
Sitters, René A. Two NP-hardness results for preemptive minsum scheduling of unrelated parallel machines. (English summary) **2004m:90056**
— The minimum latency problem is NP-hard for weighted trees. (English summary)
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Spieksma, Frits C. R. On the approximability of an interval scheduling problem. (English summary)
Stephen, Tamon *see* **Barvinok, A. I., (2004a:00021)**
Stougie, Leen *see* **Dye, Shane et al., 2004j:90022** *and* **de Paepe, Willem E. et al.**
Strusevich, V. A. *see* **Kellerer, Hans[2], 2004b:90041; Potts, Chris N. et al., 2004g:90049; Kovalëv, M. Ya. et al., 2004m:90048** *and* **Gladkiĭ, A. A. et al.**
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Szwarc, Wlodzimierz (*with* Grosso, Andrea; Della Croce, Federico) Algorithmic paradoxes of the single-machine total tardiness problem. (English summary) **2004f:90058**
Tautenhahn, T. *see* **Potts, Chris N. et al., 2004g:90049**
Tennenholtz, Moshe *see* **Brafman, Ronen I., 2004c:68119**
Timkovskiĭ, V. G. Identical parallel machines vs. unit-time shops and preemptions vs. chains in scheduling complexity. (English summary) **2004f:90153**
— *see also* **Middendorf, Martin, 2004f:90050**
Tomasgard, Asgeir *see* **Dye, Shane et al., 2004j:90022**
Toulouse, Sophie *see* **Monnot, Jérôme et al., 2004a:90107**
Vaĭnshteĭn, A. D. *see* **Gutin, Gregory et al., 2004g:90092**
Vairaktarakis, George L. (*with* Cai, Xiao-Qiang) Complexity of workforce scheduling in transfer lines. (English summary) **2004i:90061**
Van Hentenryck, Pascal *see* **Aron, Ionuţ D., 2004i:90159**
Wang, Shu-Feng (*with* Zou, Yi-Ren) Minimizing earliness-tardiness penalties of orders with multi-product classes. (English and Chinese summaries) **2004e:90046**
Wasil, Edward *see* **Chandran, Bala et al., (2004b:90006)**
Weismantel, Robert *see* **Schulz, Andreas S., 2004i:90089**
de Werra, Dominique (*with* Asratyan, A. S.; Durand, Sylvain J.) Complexity of some special types of timetabling problems. (English summary) **2004e:90047**
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90C70 Fuzzy programming

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Fung, Richard Y. K. *see* **Tang, Jiafu et al.**, **2004k:90178**
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Maulik, U. *see* **Pal, B. B. et al.**
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Ushiro, Satoshi *see* **Sakawa, Masatoshi et al., (2004f:90009)**
Varela, Leonilde Rocha *see* **Ribeiro, Rita Almeida, (2004f:90009)**
Verdegay, José-Luis *see* **Jiménez, Fernando et al., 2004d:90141** *and* **Blanco, Armando et al., (2004f:90009)**
Verma, S. K. *see* **Mohan, Chander, (2004f:90009)**
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Wu, Cong Xin *see* **Wang, Guixiang, 2004f:90181**
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Besharati-Rad, A. *see* **Chan, P. T. et al., 2004g:93094**
Bouchon-Meunier, Bernadette *see* **Mellouli, Nédra, 2004f:90068**
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Goswami, Adrijit *see* **De, Sujit Kumar et al., 2004c:90002**
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Jiang, Houyuan *see* **Ernst, Andreas T. et al.**
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Karr, Charles L. *see* **Wilson, Eric L., (2004f:90009)**
Kassem, Mohamed Abd El-Hady *see* **Ammar, Elsaid Ebrahim**
Kishore, Newal *see* **Jayswal, Anurag**
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Martínez, Luis *see* **Chiclana, Francisco et al., 2004f:90065**
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Mo, Zhi Wen *see* **Li, Hong Xing et al.**
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Olmedo, Rafael *see* **Fernández-González, Eduardo**
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Pereira, J. G., Jr. *see* **Ekel, P. Ya. et al.**
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Ribeiro, Rita Almeida *see* **Marques Pereira, Ricardo Alberto, 2004e:90051**
Róg, P. *see* **Sevastjanov, P. V.**
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Saito, Seiji *see* **Uno, Takeshi et al.**
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Shi, Wen Kang *see* **Deng, Yong**
Shiode, Shogo *see* **Osumi, Shigehiro, 2004f:90078**
Sier, David *see* **Ernst, Andreas T. et al.**
Sinha, Surabhi *see* **Sinha, Surendra B.**
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Słowinski, Roman *see* **Inuiguchi, Masahiro et al., 2004h:90028**
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Sung, Shao Chin *see* **Muthusamy, Kanesan et al., 2004a:90034**
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Tang, Jiafu (*with* Fung, Richard Y. K.; Yung, Kai-Leung) Fuzzy modelling and simulation for aggregate production planning. (English summary)
Tanino, Tetsuzo *see* **Inuiguchi, Masahiro et al., 2004h:90028**
Teodorović, Dušan *see* **Lučić, Panta, (2004f:90009)**
Thiel, Sven *see* **Henz, Martin et al.**
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Vlach, Milan *see* **Muthusamy, Kanesan et al., 2004a:90034**
Wang, Jia Yin *see* **Li, Hong Xing et al.**
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Wen, Ue-Pyng *see* **Lin, Chi-Jen, 2004k:90062**
Wertz, Vincent *see* **Stanciulescu, C. et al., 2004d:90090**
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90C90 Applications of mathematical programming

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Caballero, Armando *see* **Vales-Alonso, Javier et al., 2004d:90145**
Cada, Michael *see* **Isenor, Glenn et al.**
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Chen, Ruey-Shun *see* **Hu, Yi-Chung et al.**
Chiu, Yu-Jing *see* **Hu, Yi-Chung et al.**
Conn, Andrew R. *see* **Visweswariah, Chandu et al., 2004m:90248**
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Derigs, Ulrich (*with* Nickel, Nils-H.) Meta-heuristic based decision support for portfolio optimization with a case study on tracking error minimization in passive portfolio management. (English summary)
Dervieux, Alain *see* **Courty, Francois et al., 2004h:90110**
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Enkhbat, Rentsen *see* **Kamada, Masaru et al., 2004k:90179**
Fernández, Jesús *see* **Vales-Alonso, Javier et al., 2004d:90145**
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Fuller, G. A. *see* **Liu, Lei[2] et al.**
Ganesan, Vikram *see* **Sherali, Hanif D.**
Garnica, O. (*with* Lanchares, J.; Hermida, R.) Optimization of asynchronous delay-insensitive pipeline latency using stage reorganization and optimal stage parameter estimation. (English summary) **2004h:90111**
González-Castaño, Francisco J. *see* **Vales-Alonso, Javier et al., 2004d:90145**
Gülpınar, Nalan (*with* Rustem, Berç; Settergren, Reuben) Simulation and optimization approaches to scenario tree generation. (English summary)
Gushchinskiĭ, N. N. *see* **Dolgui, Alexandre et al., (2004h:93004)**
Hamacher, Horst W. *see* **Boland, Natashia et al.**
Hascoët, Laurent *see* **Courty, Francois et al., 2004h:90110**
Hermida, R. *see* **Garnica, O. et al., 2004h:90111**
Hoppe, Ronald H. W. (*with* Petrova, Svetozara I.; Schulz, Volker) 3D structural optimization in electromagnetics. (*see* **2004e:65003**)
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Kamada, Masaru (*with* Kawahito, Takayuki; Enkhbat, Rentsen) Optimal synthesis of handwritten letters from their characteristic points. (English summary) **2004k:90179**
Kao, Han-Ying *see* **Li, Han-Lin**
Kawahito, Takayuki *see* **Kamada, Masaru et al., 2004k:90179**
Klassen, L. *see* **Kröner, Dietmar et al., (2004d:00011)**
Klimmek, A. *see* **Kröner, Dietmar et al., (2004d:00011)**
Koobus, Bruno *see* **Courty, Francois et al., 2004h:90110**
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Lengauer, Thomas (*with* Schäfer, Mike) Combinatorial optimization techniques for three-dimensional arrangement problems. (English summary) (*see* **2004d:00011**)
Lenzen, Frank *see* **Boland, Natashia et al.**
Levin, Genadi M. *see* **Dolgui, Alexandre et al., (2004h:93004)**
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Longman, Richard W. *see* **Bock, Hans Georg et al., (2004d:00011)**
Lucas, S. K. Maximising output from oil reservoirs without water breakthrough. (English summary)
Lundgren, Jan T. *see* **Bredström, David et al.**
Magos, D. *see* **Appa, Gautam et al.**
Mangasarian, Olvi L. *see* **Bradley, P. S. et al., 2004g:90157**
Mason, Andrew J. *see* **Bredström, David et al.**
Moles, Carmen G. *see* **Banga, Julio R. et al.**
Montagna, J. M. (*with* Vecchietti, A. R.) Retrofit of multiproduct batch plants through generalized disjunctive programming. (English summary)
Morgenstern, Ingo *see* **Schneider, Johannes, (2004e:82001)**
Mourtos, I. *see* **Appa, Gautam et al.**
Musicant, D. R. *see* **Bradley, P. S. et al., 2004g:90157**
Nash, Stephen G. *see* **Lewis, Robert Michael, (2004f:90010)**
Nguyen, Ngoc Thanh Using distance functions to solve representation choice problems. (English summary) **2004f:90182**
Nickel, Nils-H. *see* **Derigs, Ulrich**
Oppermann, C. *see* **Ali, M. Montaz et al., (2004b:90008)**
Pearson, Michael An equilibrium solution to supply chain synchronization. (English summary)
Petrova, Svetozara I. *see* **Hoppe, Ronald H. W. et al., (2004e:65003)**
Pierce, Daniel J. *see* **Filipowski, Sharon K. et al., (2004b:90008)**

Pintér, János D. Globally optimized calibration of nonlinear models: techniques, software, and applications. (English summary)
— *see also* **Isenor, Glenn et al.**
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Resende, Mauricio G. C. Combinatorial optimization in telecommunications. (English summary) (*see* **2004b:90008**)
Rönnqvist, Mikael *see* **Bredström, David et al.**
Rustem, Berç *see* **Gülpınar, Nalan et al.**
Schäfer, Mike *see* **Lengauer, Thomas**, (**2004d:00011**)
Schlöder, Johannes P. *see* **Bock, Hans Georg et al.**, (**2004d:00011**)
Schneider, Johannes (*with* Morgenstern, Ingo) Optimization of production lines by methods from statistical physics. (English summary) (*see* **2004e:82001**)
Schoen, Fabio *see* **Locatelli, Marco**, (**2004b:90008**)
Schulz, Volker *see* **Hoppe, Ronald H. W. et al.**, (**2004e:65003**)
Settergren, Reuben *see* **Gülpınar, Nalan et al.**
Shepard, David M. *see* **Ferris, Michael C. et al.**, **2004b:90179**
Sherali, Hanif D. (*with* Ganesan, Vikram) A pseudo-global optimization approach with application to the design of containerships. (English summary)
Shpitonkov, M. I. *see* **Razzhevaĭkin, V. N.**
Silva, Luís G. *see* **Visweswariah, Chandu et al.**, **2004m:90248**
Thomas, B. *see* **Ali, M. Montaz et al.**, (**2004b:90008**)
Trescher, D. *see* **Kröner, Dietmar et al.**, (**2004d:00011**)
Tzeng, Gwo-Hshiung *see* **Hu, Yi-Chung et al.**
Vales-Alonso, Javier (*with* Fernández, Jesús; González-Castaño, Francisco J.; Caballero, Armando) A parallel optimization approach for controlling allele diversity in conservation schemes. (English summary) **2004d:90145**
Vecchietti, A. R. *see* **Montagna, J. M.**
Visweswariah, Chandu (*with* Conn, Andrew R.; Silva, Luís G.) Exploiting optimality conditions in accurate static circuit tuning. (English summary) **2004m:90248**
Vogel, Frank *see* **Zillober, Christian**, (**2004i:00008**)
Wang, Paul Keng Chieh Optimal path planning based on visibility. (English summary) **2004c:90115**
Winckler, Michael J. *see* **Bock, Hans Georg et al.**, (**2004d:00011**)
Wolmarans, E. M. *see* **Ali, M. Montaz et al.**, (**2004b:90008**)
Wu, Jason[2] *see* **Filipowski, Sharon K. et al.**, (**2004b:90008**)
Zeng, G. M. *see* **Liu, Lei[2] et al.**
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Ahsan, M. Kamrul (*with* Tsao, De-bi) A heuristic search algorithm for solving resource-constrained project scheduling problems. (English summary)
de Almeida, Adiel Teixeira Multicriteria modelling for a repair contract problem based on utility and the ELECTRE I method. (English summary)
Alonso, Antonio A. *see* **Banga, Julio R. et al.**
Altay-Salih, Aslıhan (*with* Pınar, Mustafa Çelebi; Leyffer, Sven) Constrained nonlinear programming for volatility estimation with GARCH models. (English summary) **2004m:90138**
Anbazhagan, N. *see* **Perumal, V. et al.**
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Cardoso, M. F. *see* **Salcedo, R. L. et al.**
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Chambouleyron, Ivan E. *see* **Birgin, Ernesto G. et al.**
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Chen, Mingyuan *see* **Cao, Dong**, **2004g:90152**
Chen, Yi-Xin *see* **Wah, Benjamin W.**, (**2004f:90008**)
Cheng, T. C. Edwin *see* **Ng, C. T. Daniel et al.**
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Chucholowski, Cornelius *see* **Bulirsch, Roland et al.**, (**2004d:00011**)
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Chung, Kun-Jen *see* **Huang, Yung-Fu**
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Conforti, Domenico *see* **Beraldi, Patrizia et al.**
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Demeulemeester, Erik *see* **Vanhoucke, Mario et al.**, **2004b:90047**
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Deng, Shaozhong (*with* Ito, Kazufumi; Li, Zhilin) Three-dimensional elliptic solvers for interface problems and applications. (English summary) **2004b:65200**
Deng, Xiao-Tie *see* **Li, Zhong-Fei et al.**, **2004a:91076**
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Elshafei, Moustafa (*with* Sherali, Hanif D.; Smith, J. Cole) Radar pulse interleaving for multi-target tracking. (English summary) **2004j:90046**
Erb, Sven O. *see* **Betts, John T.**, **2004f:49057**

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Fehnker, Ansgar *see* **Clarke, Edmund et al., 2004h:68080**

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Fernandes, Edite M. G. P. *see* **Vaz, A. Ismael F. et al.**

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Gao, Hui Jun *see* **Li, Yan Hui[2] et al.**

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Hart, Emma *see* **Ross, Peter, (2004f:90008)**

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Johnston, Mark E. *see* **Nealon, Michael J., (2004b:90008)**

Joshi, Rajani R. *see* **Subramanian, Jyothi**

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Martínez, José Mario *see* **Birgin, Ernesto G. et al.**
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Medova-Dempster, E. A. *see* **Dempster, M. A. H. et al.**, (**2004j:90007**)
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Meller, Russell D. *see* **Sherali, Hanif D. et al.**
Memik, Seda Ogrenci *see* **Bozorgzadeh, Elaheh et al.**, (**2004f:90010**)
Menshykov, Oleksandr V. *see* **Zozulya, Vladimir V.**
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Mitra, Gautam *see* **Messina, Enza et al.**
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Mohan, Chander (*with* Verma, S. K.) Interactive algorithms using fuzzy concepts for solving mathematical models of real life optimization problems. (English summary) (*see* **2004f:90009**)
Moles, Carmen G. *see* **Banga, Julio R. et al.**
Molnár, Emil *see* **Ács, László**, **2004e:20088**
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Nanseki, Teruaki *see* **Itoh, Takeshi et al.**
Nealon, Michael J. (*with* Johnston, Mark E.) Outsourcing decision support: a web-based approach. (English summary) (*see* **2004b:90008**)
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Noakes, J. Lyle (*with* Kozera, Ryszard) Nonlinearities and noise reduction in 3-source photometric stereo. (English summary) **2004b:68156**
— *see also* **Errata: "Nonlinearities and noise reduction in 3-source photometric stereo"**
Noll, Dominikus *see* **Apkarian, Pierre et al.**, **2004g:93058**
Nygreen, Bjørn *see* **Doorman, Gerard**
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91–XX Game theory, economics, social and behavioral sciences

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91Axx Game theory

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Tegos, Theodore *see* **Müller, Martin[2], 2004b:91050**
Terblanche, Elmarie *see* **Koeslag, Johan H.**
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Wauthy, Xavier J. *see* **Jaskold Gabszewicz, Jean, 2004h:91078**
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91A06 n-person games, $n > 2$

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Moresino, Francesco *see* **Altman, Eitan et al.**
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Nicholas, Thomas E. *see* **Rapoport, Amnon et al., 2004d:91007**
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Gómez-Ramírez, E. *see* **Godoy-Alcántar, M. et al., 2004i:91011**
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Li, Zhu Yu *see* **Lan, Heng You et al., 2004c:91071**
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Mordukhovich, Boris S. (*with* Treiman, Jay S.; Zhu, Qiji J.) An extended extremal principle with applications to multiobjective optimization. (English summary) **2004m:49051**
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Neme, Alejandro *see* **Martínez, Ruth et al.**, **2004k:91158**
Nentjes, A. *see* **Kryazhimskii, Arkadii V. et al.**, **2004b:91014**
Orshan, Gooni (*with* Sudhölter, Peter) Reconfirming the prenucleolus. (English summary) **2004c:91018**
Oviedo, Jorge *see* **Martínez, Ruth et al.**, **2004k:91158**
Paulusma, Daniël *see* **Kern, Walter**, **2004c:91014**
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Segerman, Henry *see* **Dehaye, Paul-Olivier et al.**, **2004g:00004**
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Sigmund, Karl *see* **Hauert, Christoph et al.**
Simon, Robert Samuel Games of incomplete information, ergodic theory, and the measurability of equilibria. (English summary) **2004k:91036**
Sinha, Sagnik *see* **Ghosh, Mrinal K.**, **2004h:91023**
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Sudhölter, Peter *see* **Orshan, Gooni**, **2004c:91018**
Szidarovszky, Ferenc *see* **Forgó, F.**, **2004a:91011** *and* **Ghoseiri, Keivan et al.**
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Treiman, Jay S. *see* **Mordukhovich, Boris S. et al.**, **2004m:49051**
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Zhu, Shanfeng *see* **Fang, Qizhi et al.**, **2004g:91008**
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91A10 Noncooperative games

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Brânzei, Rodica (*with* Mallozzi, Lina; Tijs, Stef) Supermodular games and potential games. (English summary) **2004e:91008**
Brenner, Thomas *see* **Joosten, Reinoud et al.**
Bukhtoyarov, S. E. *see* **Emelichev, Vladimir A.**, **2004e:91010**
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Chau, Chi Kin (*with* Sim, Kwang Mong) The price of anarchy for non-atomic congestion games with symmetric cost maps and elastic demands. (English summary) **2004f:91010**
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Datta, Ruchira S. Using computer algebra to find Nash equilibria. (English summary) (*see* **2004j:68018**)
— Universality of Nash equilibria. (English summary) **2004f:91011**
Day, Christopher J. *see* **Pang, Jong-Shi et al.**, **2004j:91016**
Deb, Rajat (*with* Razzolini, Laura; Seo, Tae Kun) Strategy-proof cost sharing, ability to pay and free provision of an indivisible public good. (English summary) **2004f:91012**
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Dubey, Pradeep (*with* Geanakoplos, John) From Nash to Walras via Shapley-Shubik. (English summary) **2004f:91013**
Dufwenberg, Martin *see* **Asheim, Geir B.**, **2004b:91012**
Durieu, Jacques (*with* Solal, Philippe) Adaptive play with spatial sampling. (English summary) **2004d:91010**
— *see also* **Baron, Richard et al.**
Echenique, Federico Extensive-form games and strategic complementarities. (English summary) **2004j:91012**
Einy, Ezra (*with* Moreno, Diego; Shitovitz, Benyamin) The value of public information in a Cournot duopoly. (English summary) **2004e:91009**
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Emelichev, Vladimir A. (*with* Bukhtoyarov, S. E.) On stability of Nash equilibrium situations and Pareto optimal situations in finite games. (English summary) **2004e:91010**
Feigenbaum, Joan *see* **Archer, Aaron et al.**, **2004k:91011**
Garagic, D. (*with* Cruz, Jose B., Jr.) An approach to fuzzy noncooperative Nash games. (English summary) **2004j:91013**
Geanakoplos, John Nash and Walras equilibrium via Brouwer. (English summary) **2004i:91009**
— *see also* **Dubey, Pradeep**, **2004f:91013**
Gerardi, Dino Unmediated communication in games with complete and incomplete information. (English summary) **2004i:91010**
Ghosal, Sayantan *see* **Codognato, Giulio**, **2004h:91013** *and* **Chatterji, Shurojit**, **2004j:91011**
Giardina, Irene *see* **De Martino, A. et al.**, **2004h:91014**
Gnudi, A. *see* **Allevi, E. et al.**, **2004g:91004**
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Gómez-Ramírez, E. *see* **Godoy-Alcántar, M. et al.**, **2004i:91011**
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Haller, Hans *see* **Baron, Richard et al.**
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Heath, David C. (*with* Ku, Hyejin) Pareto equilibria with coherent measures of risk. (English summary) **2004m:91013**
Hobbs, Benjamin F. *see* **Pang, Jong-Shi et al.**, **2004j:91016**
Holt, Charles A. *see* **Goeree, Jacob K.**, **2004j:91014**
Hoshino, Mitsuhiro *see* **Kimura, Yutaka et al.**
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Iimura, Takuya A discrete fixed point theorem and its applications. (English summary) **2004g:91005**
Itaya, Jun-Ichi (*with* Sano, Hiroyuki) Exit from rent-seeking contests. (English summary) **2004f:91015**
Jansen, M. J. M. *see* **Vermeulen, A. J. et al.**, **2004m:91017**
Jehiel, Philippe *see* **Compte, Olivier**
Joosten, Reinoud (*with* Brenner, Thomas; Witt, Ulrich) Games with frequency-dependent stage payoffs. (English summary)
Kaarbøe, Oddvar M. *see* **Hansen, Per Svejstrup**, **2004b:91013**
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(English summary)
Keely, Louise C. Exchanging good ideas. (English summary) **2004c:91008**
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Koessler, Frédéric Persuasion games with higher-order uncertainty. (English summary) **2004d:91011**
Koller, Daphne (*with* Milch, Brian) Multi-agent influence diagrams for representing and solving games. (English summary) **2004i:91012**
Konnov, Igor V. *see* **Allevi, E. et al., 2004g:91004**
Krishnamurthy, Arvind[1] *see* **Archer, Aaron et al., 2004k:91011**
Kryazhimskii, Arkadii V. (*with* Nentjes, A.; Shibaev, S. V.; Taras′ev, A. M.) Modeling market equilibrium for transboundary environmental problem. (English summary) **2004b:91014**
Ku, Hyejin *see* **Heath, David C., 2004m:91013**
Landsburg, Steven E. Quantum game theory. **2004k:91012**
Li, Jie *see* **El-Zoghdy, Said Fathy et al., (2004j:91005)**
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Liu, Yang[2] (*with* Simaan, Marwan A.) Noninferior Nash strategies for multi-team systems. (English summary) **2004j:91015**
Mallozzi, Lina *see* **Brânzei, Rodica et al., 2004e:91008**
Maniquet, François A characterization of the Shapley value in queueing problems. (English summary) **2004d:91012**
Matsuhisa, Takashi Robust models for Nash equilibrium. I. (English summary) (*see* **2004d:91002**)
Matveev, Vladimir A. Game problem with vector-valued payoffs. (English summary) (*see* **2004d:91002**)
McAdams, David Isotone equilibrium in games of incomplete information. (English summary) **2004e:91012**
Meirowitz, Adam On the existence of equilibria to Bayesian games with non-finite type and action spaces. (English summary) **2004a:91005**
Migdalas, Athanasios Cyclic linearization and decomposition of team game models. (English summary) (*see* **2004k:90008**)
Milch, Brian *see* **Koller, Daphne, 2004i:91012**
Milchtaich, Igal Random-player games. (English summary) **2004m:91014**
— Social optimality and cooperation in nonatomic congestion games. (English summary) **2004k:91013**
Moreno, Diego *see* **Einy, Ezra et al., 2004e:91009**
Mosetti, G. *see* **De Martino, A. et al., 2004h:91014**
Myatt, David P. (*with* Wallace, Christopher C.) A multinomial probit model of stochastic evolution. (English summary) **2004i:91013**
Nakai, Teruhisa Selection of a desirable equilibrium by subjective motive distributions. (English summary)
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Ohseto, Shinji *see* **Kato, Miki**
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Pfeiffer, Thomas The value of information in the hold-up problem. (English summary)
Possajennikov, Alex Evolutionary foundations of aggregate-taking behavior. (English summary) **2004d:91014**
Potters, J. A. M. *see* **Vermeulen, A. J. et al., 2004m:91017**
Poznyak, A. S. *see* **Godoy-Alcántar, M. et al., 2004i:91011**
Prat, Andrea (*with* Rustichini, Aldo) Games played through agents. (English summary) **2004i:91014**
Pusillo Chicco, L. Approximate solutions and Tikhonov well-posedness for Nash equilibria. (English summary) **2004k:91014**
Rauh, Michael T. Non-cooperative games with a continuum of players whose payoffs depend on summary statistics. (English summary) **2004d:91015**
Razzolini, Laura *see* **Deb, Rajat et al., 2004f:91012**
Renault, Jérôme Value of repeated Markov chain games with lack of information on one side. (English summary) (*see* **2004d:91002**)
Riedel, Frank *see* **Oechssler, Jörg, 2004a:91006**
Roughgarden, Tim (*with* Tardos, Éva) Bounding the inefficiency of equilibria in nonatomic congestion games. (English summary) **2004m:91016**
Rusinowska, Agnieszka On certain generalization of Rubinstein's bargaining model. (*see* **2004b:91002**)
Rustichini, Aldo *see* **Prat, Andrea, 2004i:91014**
Sakaguchi, Minoru Multistage non-zero-sum arbitration game. (English summary) **2004h:91015**
Sami, Rahul *see* **Archer, Aaron et al., 2004k:91011**
Sano, Hiroyuki *see* **Itaya, Jun-Ichi, 2004f:91015**
Schaible, Siegfried *see* **Allevi, E. et al., 2004g:91004**
Schlag, Karl H. *see* **Hurkens, Sjaak**
(Schweizer, Urs) *see* **Pfeiffer, Thomas**
Seo, Tae Kun *see* **Deb, Rajat et al., 2004f:91012**
Shenker, Scott *see* **Archer, Aaron et al., 2004k:91011**
Shibaev, S. V. *see* **Kryazhimskii, Arkadii V. et al., 2004b:91014**
Shitovitz, Benyamin *see* **Einy, Ezra et al., 2004e:91009**
Sim, Kwang Mong *see* **Chau, Chi Kin, 2004f:91010**
Simaan, Marwan A. *see* **Liu, Yang[2], 2004j:91015**
Smol′yakov, É. R. A strong equilibrium in noncooperative games. (English summary) **2004d:91016**
Sofronidis, N. E. Undecidability of the existence of pure Nash equilibria. (English summary) **2004j:91017**
Solal, Philippe *see* **Durieu, Jacques, 2004d:91010** *and* **Baron, Richard et al.**
Spiegler, Ran Simplicity of beliefs and delay tactics in a concession game. (English summary) **2004k:91015**
Swinnen, Johan F. M. *see* **Banerjee, Anurag N.**
Taras′ev, A. M. *see* **Kryazhimskii, Arkadii V. et al., 2004b:91014**
Tardos, Éva *see* **Roughgarden, Tim, 2004m:91016**
Temzelides, Ted *see* **Blume, Andreas, 2004h:91012**
Tian, Guoqiang A solution to the problem of consumption externalities. (English summary) **2004g:91006**
Tijs, Stef *see* **Brânzei, Rodica et al., 2004e:91008**
Ui, Takashi *see* **Kameda, Hisao, (2004d:91002)**
Urbano, Amparo (*with* Vila, Jose E.) Computationally restricted unmediated talk under incomplete information. (English summary)
Urbano, Ana M. (*with* Vila, Jose E.) Unmediated communication in repeated games with imperfect monitoring. (English summary) **2004i:91015**
Vermeulen, A. J. (*with* Jansen, M. J. M.; Potters, J. A. M.) Making solutions invariant. (English summary) **2004m:91017**
Versaevel, Bruno *see* **Billette de Villemeur, Etienne**
Vila, Jose E. *see* **Urbano, Ana M., 2004i:91015** *and* **Urbano, Amparo**
Volij, Oscar A remark on bargaining and non-expected utility. (English summary) **2004a:91007**
Vulkan, Nir *see* **Hurkens, Sjaak**
Wallace, Christopher C. *see* **Myatt, David P., 2004i:91013**
Wang, Fei *see* **Liu, Guang Zhi et al., 2004c:91009**
Westermark, Andreas Extremism, campaigning and ambiguity. (English summary) **2004m:91018**
Wilson, Robert B. *see* **Govindan, Srihari, 2004e:91011**
Witt, Ulrich *see* **Joosten, Reinoud et al.**
Yan, Huibin Noncooperative selection of the core. (English summary) **2004h:91016**
Yato, Yumio *see* **Kimura, Yutaka et al.**
Yu, Hui Weak Pareto equilibria for multiobjective constrained games. (English summary) **2004d:91017**
Zhang, Sheng Kai *see* **Liu, Guang Zhi et al., 2004c:91009**

Items with secondary classifications in 91A10

Admati, Anat R. (*with* Pfleiderer, Paul) Broadcasting opinions with an overconfident sender. (English summary) **2004m:91045**
Albano, Gian Luigi (*with* Jouneau-Sion, Frédéric) Bayesian inference in repeated English auctions. (English summary)
Alemdar, Nedim M. *see* **Sirakaya, Sibel, 2004i:91039**
Alvarez, Fernando (*with* Kehoe, Patrick J.; Neumeyer, Pablo Andrés) The time consistency of optimal monetary and fiscal policies. (English summary) **2004j:91191**
Amir, Rabah Complementarity and diagonal dominance in discounted stochastic games. (English summary) **2004a:91015**
Ansari, Qamrul Hasan *see* **Lin, Lai-Jiu et al., 2004e:91085**
Anthonisen, Niels On learning to cooperate. (English summary) **2004f:91035**
Antipin, A. S. Extragradient approach to the solution of two person non-zero sum games. (English summary) **2004k:91006**
Aoki, Reiko Effect of credible quality investment with Bertrand and Cournot competition. (English summary) **2004i:91065**
Avenhaus, Rudolf (*with* Kilgour, D. Marc) Efficient distributions of arms-control inspection effort. (English summary) **2004j:90047**
Bergantiños, Gustavo *see* **Vidal-Puga, Juan J., 2004i:91030**
Bergin, James (*with* Bernhardt, Dan) Comparative learning dynamics. (English summary) **2004m:91012**
Bernhardt, Dan *see* **Bergin, James, 2004m:91012**
Blume, Andreas (*with* Heidhues, Paul) All quilibria of the Vickrey auction. (English summary)
Boccard, Nicolas (*with* Wauthy, Xavier J.) Optimal quotas, price competition and products' attributes. (English summary) **2004i:91040**
Bogdanov, A. V. (*with* Vasin, A. A.) Models of adaptive-imitative behavior. I. A relation to Nash equilibria and to solutions by dominance. (Russian. Russian summary) **2004d:91032**
Börgers, Tilman (*with* Morales, Antonio J.; Sarin, Rajiv) Expedient and monotone learning rules. (English summary) **2004m:91043**
Brânzei, Rodica The influence of linear restrictions on the equilibrium point in a noncooperative n-person game. (English summary) **2004e:91004**
— (*with* Morgan, Jacqueline; Scalzo, Vincenzo; Tijs, Stef) Approximate fixed point theorems in Banach spaces with applications in game theory. (English summary) **2004g:47072**
Buro, M. Solving the Oshi-Zumo game. (English summary) (*see* **2004j:68162**)
Buskens, Vincent Trust in triads: effects of exit, control, and learning. (English summary) **2004d:91194**
Cai, Hongbin Inefficient Markov perfect equilibria in multilateral bargaining. (English summary) **2004g:91058**
Calvó-Armengol, Antoni A decentralized market with trading links. (English summary) **2004d:91079**
Cheng, Shih Feng *see* **Lin, Lai-Jiu et al., 2004e:91085**
Coles, Melvyn G. (*with* Muthoo, Abhinay) Bargaining in a non-stationary environment. (English summary) **2004d:91003**
Conklin, James A. *see* **Judd, Kenneth L. et al., 2004e:91025**
Conlon, John R. Hope springs eternal: learning and the stability of cooperation in short horizon repeated games. (English summary) **2004f:91027**
Corominas-Bosch, Margarida Bargaining in a network of buyers and sellers. (English summary) **2004j:91064**

Costa-Gomes, Miguel A. (*with* Zauner, Klaus G.) Learning, non-equilibrium beliefs, and non-pecuniary payoffs in an experimental game. (English summary) **2004f:91122**
Crès, Hervé (*with* Moulin, Hervé) Commons with increasing marginal costs: random priority versus average cost. (English summary) **2004e:91089**
Cripe, Greg The effect of information on a stochastic, spatially distributed fishery. (English summary)
van Damme, Eric (*with* Furth, Dave) Game theory and the market. **2004i:91071**
Davies, Ronald B. The OECD model tax treaty: tax competition and two-way capital flows. (English summary) **2004d:91180**
Dekel, Eddie (*with* Fudenberg, Drew; Levine, David K.) Learning to play Bayesian games. (English summary) **2004j:91060**
Delgado, Juan (*with* Moreno, Diego) Coalition-proof supply function equilibria in oligopoly. (English summary) **2004k:91082**
Demichelis, Stefano (*with* Ritzberger, Klaus) From evolutionary to strategic stability. (English summary) **2004i:91036**
Deroïan, Frédéric Farsighted strategies in the formation of a communication network. (English summary)
De Sinopoli, Francesco A note on forward induction in a model of representative democracy. (English summary) **2004j:91074**
Dhillon, Amrita (*with* Lockwood, Ben) When are plurality rule voting games dominance-solvable? (English summary) **2004j:91075**
Droste, Edward (*with* Kosfeld, Michael; Voorneveld, Mark) Best-reply matching in games. (English summary) **2004m:91180**
Du, Jiangfeng (*with* Li, Hui[5]; Xu, Xiaodong; Zhou, Xianyi; Han, Rongdian) Phase-transition-like behaviour of quantum games. (English summary) **2004d:81029**
— *see also* **Li, Hui[5] et al., 2004f:81062**
Dubey, Pradeep (*with* Haimanko, Ori) Learning with perfect information. (English summary) **2004j:91061**
Echenique, Federico A characterization of strategic complementarities. (English summary) **2004j:91065**
Efstathiou, Janet *see* **Wang, Hong Wei[1] et al.**
Engwerda, Jacob C. Solving the scalar feedback Nash algebraic Riccati equations: an eigenvector approach. (English summary) **2004h:91026**
Ermol'ev, Yu. M. (*with* Flåm, Sjur Didrik) Repeated play of potential games. (English and Ukrainian summaries) **2004k:91042**
Evans, Robert A. A one-period version of Rubinstein's bargaining game. (English summary)
Fang, Hanming (*with* Parreiras, Sérgio O.) On the failure of the linkage principle with financially constrained bidders. (English summary) **2004d:91081**
Flåm, Sjur Didrik Convexity, differential equations and games. (English summary) **2004a:49023**
— (*with* Jourani, Abderrahim) Strategic behavior and partial cost sharing. (English summary) **2004d:91019**
— Optimization under uncertainty using momentum. (English summary) **2004m:90101**
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Frankel, David M. (*with* Morris, Stephen E.; Pauzner, Ady) Equilibrium selection in global games with strategic complementarities. (English summary) **2004b:91009**
Fudenberg, Drew *see* **Dekel, Eddie et al., 2004j:91060**
Furth, Dave *see* **van Damme, Eric, 2004i:91071**
Germano, Fabrizio Bertrand-Edgeworth equilibria in finite exchange economies. (English summary) **2004g:91100**
Ghosal, Sayantan (*with* Morelli, Massimo) Retrading in market games. (English summary) **2004j:91100**
Ghosh, Mrinal K. (*with* Sinha, Sagnik) Non-cooperative N-person semi-Markov games on a denumerable state space. (English summary) **2004h:91023**
(Giannessi, Franco) *see* **Equilibrium problems: nonsmooth optimization and variational inequality methods, 2004g:90006**
Giraud, Gaël (*with* Rochon, Céline) Consistent collusion-proofness and correlation in exchange economies. (English summary) **2004a:91090**
— Strategic market games: an introduction. (English summary) **2004f:91063**
Glycopantis, Dionysius (*with* Muir, Allan; Yannelis, Nicholas C.) On extensive form implementation of contracts in differential information economies. (English summary) **2004h:91080**
Goeree, Jacob K. Bidding for the future: signaling in auctions with an aftermarket. (English summary) **2004d:91083**
Gong, Liutang (*with* Zou, Heng-Fu) A fiscal federalism approach to optimal taxation and intergovernmental transfers in a dynamic model. (English summary) **2004k:91147**
Gossner, Olivier (*with* Vieille, Nicolas) Strategic learning in games with symmetric information. (English summary) **2004j:91010**
Gotoh, Reiko (*with* Yoshihara, Naoki) A class of fair distribution rules à la Rawls and Sen. (English summary) **2004f:91097**
Granot, Daniel (*with* Maschler, Michael; Shalev, Jonathan) Voting for voters: the unanimity case. (English summary) **2004b:91067**
Grégoire, Philippe (*with* Robson, Arthur J.) Imitation, group selection and cooperation. (English summary) **2004j:91063**
Guerraggio, Angelo (*with* Molho, Elena) The origins of quasi-concavity: a development between mathematics and economics. (English and Italian summaries) **2004k:01040**
Guo, Min *see* **Wang, Hong Wei[1] et al.**
Haimanko, Ori *see* **Dubey, Pradeep, 2004j:91061**
Han, Rongdian *see* **Du, Jiangfeng et al., 2004d:81029**
Hanel, Rudolf *see* **Thurner, Stefan et al.**
Hansen, Helle Hvid (*with* Pauly, Marc[2]) Axiomatising Nash-consistent coalition logic. (English summary) (*see* **2004j:68015**)
Harrington, Joseph E., Jr. Some implications of antitrust laws for cartel pricing. (English summary) **2004i:91066**
Heidhues, Paul *see* **Blume, Andreas**
Herings, P. Jean-Jacques (*with* Peeters, Ronald J. A. P.) Equilibrium selection in stochastic games. (English summary) **2004j:91040**
Holt, Charles A. (*with* Roth, Alvin E.) The Nash equilibrium: a perspective. (English summary)
Holzman, Ron (*with* Monderer, Dov) Characterization of ex post equilibrium in the VCG combinatorial auctions. (English summary) **2004k:91085**
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Hosokawa, Yoshihisa *see* **Kameda, Hisao, 2004h:68012**
Hou, Ji Cheng A fixed point theorem and an equilibrium point of an abstract economy in H-spaces. (English summary) **2004m:91161**
— Existence of equilibria for generalized games without paracompactness. (English summary) **2004j:91178**
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Ishibuchi, Hisao (*with* Sakamoto, Ryoji; Nakashima, Tomoharu) Learning fuzzy rules from iterative execution of games. (English summary) **2004b:91027**
Jouneau-Sion, Frédéric *see* **Albano, Gian Luigi**
Jourani, Abderrahim *see* **Flåm, Sjur Didrik, 2004d:91019**
Judd, Kenneth L. (*with* Yeltekin, Sevin; Conklin, James A.) Computing supergame equilibria. (English summary) **2004e:91025**
Kalandrakis, Anastassios A three-player dynamic majoritarian bargaining game. (English summary) **2004m:91091**
Kameda, Hisao (*with* Hosokawa, Yoshihisa) Effects of symmetry on paradoxes in non-cooperative distributed computing. (English summary) **2004h:68012**
Karp, Larry (*with* Lee, In Ho) Time-consistent policies. (English summary) **2004g:91110**
Kawamori, Tomohiko Uncertainty of time intervals and possibility of collusion in infinitely repeated games. (English summary)
Kehoe, Patrick J. *see* **Alvarez, Fernando et al., 2004j:91191**
Kfir-Dahav, Noa *see* **Holzman, Ron et al., 2004k:91084**
Khamisov, O. A global optimization approach to solving equilibrium programming problems. (English summary) **2004k:90158**
Kikuta, Kensaku *see* **Ruckle, William H., 2004f:91039** *and* **2004k:91009**
Kilgour, D. Marc *see* **Avenhaus, Rudolf, 2004j:90047**
Kosfeld, Michael *see* **Droste, Edward et al., 2004m:91180**
Koutsougeras, Leonidas C. Convergence to no arbitrage equilibria in market games. (English summary) **2004f:91066**
Krawczyk, Jacek B. (*with* Shimomura, Koji) Why countries with the same technology and preferences can have different growth rates. (English summary) **2004d:91171**
Lê Dũng Mu'u (*with* Nguyen Van Quy[2]) A global optimization method for solving convex quadratic bilevel programming problems. (English summary) **2004e:90068**
Lee, In Ho *see* **Karp, Larry, 2004g:91110**
Levine, David K. *see* **Dekel, Eddie et al., 2004j:91060**
Li, Feng Study of conspiracy between banks of the infinite repeated game. (Chinese. English and Chinese summaries)
Li, Hui[5] (*with* Du, Jiangfeng; Massar, Serge) Continuous-variable quantum games. (English summary) **2004f:81062**
— *see also* **Du, Jiangfeng et al., 2004d:81029**
Lignola, Maria Beatrice Application of a K.K.M. theorem to fixed points and Nash equilibria. (English summary) **2004c:54040**
Lin, Lai-Jiu On the systems of constrained competitive equilibrium theorems. (English summary) **2004b:91010**
— (*with* Cheng, Shih Feng; Liu, Xu Yao; Ansari, Qamrul Hasan) On the constrained equilibrium problems with finite families of players. (English summary) **2004e:91085**
Liu, Xu Yao *see* **Lin, Lai-Jiu et al., 2004e:91085**
Lockwood, Ben *see* **Dhillon, Amrita, 2004j:91075**
Luo, Xian Jue *see* **Zhang, Yu Bo et al.**
Maccheroni, Fabio (*with* Marinacci, Massimo) How to cut a pizza fairly: fair division with decreasing marginal evaluations. (English summary) **2004d:91056**
Mahenc, P. (*with* Salanié, F.) Softening competition through forward trading. (English summary)
Marinacci, Massimo *see* **Maccheroni, Fabio, 2004d:91056**
Marks, Robert E. Playing games with genetic algorithms. (English summary) **2004a:91001**
Marshall, Robert C. (*with* Merlo, Antonio) Pattern bargaining. (English summary) **2004j:91173**
Maschler, Michael *see* **Granot, Daniel et al., 2004b:91067**
Massar, Serge *see* **Li, Hui[5] et al., 2004f:81062**
(Maugeri, Antonino) *see* **Equilibrium problems: nonsmooth optimization and variational inequality methods, 2004g:90006**
Mazalov, Vladimir V. (*with* Sakaguchi, Minoru) Location game on the plane. (English summary) **2004b:91006**
Melnikov, Valery V. The assignment procedure of penalties in a non-cooperative model of collective safety system in ecology. (English summary) (*see* **2004d:91002**)
— *see also* **Zakharov, Viktor, 2004m:91146**
Merlo, Antonio *see* **Marshall, Robert C., 2004j:91173**
Molho, Elena *see* **Guerraggio, Angelo, 2004k:01040**
Monderer, Dov *see* **Holzman, Ron et al., 2004k:91084** *and* **2004k:91085**
Montero, Maria *see* **Morelli, Massimo, 2004b:91018**
Morales, Antonio J. Absolutely expedient imitative behavior. (English summary) **2004h:91033**
— *see also* **Börgers, Tilman et al., 2004m:91043**
Morelli, Massimo (*with* Montero, Maria) The demand bargaining set: general characterization and application to majority games. (English summary) **2004b:91018**
— *see also* **Ghosal, Sayantan, 2004j:91100**
Moreno, Diego *see* **Delgado, Juan, 2004k:91082**
Morgan, Jacqueline (*with* Raucci, Roberto) Lower semicontinuity for approximate social Nash equilibria. (English summary) **2004h:49046**
— (*with* Romaniello, Maria) Generalized quasi-variational inequalities and duality. (English summary) **2004e:49010**
— (*with* Scalzo, Vincenzo) Pseudocontinuity in optimization and nonzero-sum games. (English summary) **2004k:90130**
— *see also* **Brânzei, Rodica et al., 2004g:47072**
Morris, Stephen E. *see* **Frankel, David M. et al., 2004b:91009**
Moulin, Hervé *see* **Crès, Hervé, 2004e:91089**

Muir, Allan *see* **Glycopantis, Dionysius et al., 2004h:91080**
Mukherjee, Rathindra Nath[1] *see* **Reddy, L. Venkateswara**
Muthoo, Abhinay *see* **Coles, Melvyn G., 2004d:91003**
Mutuswami, Suresh (*with* Pérez Castrillo, J. David; Wettstein, David) Bidding for the surplus: realizing efficient outcomes in economic environments. (English summary)
Nakai, Teruhisa A market competition game with sequential pricings. (English summary)
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Nakashima, Tomoharu *see* **Ishibuchi, Hisao et al., 2004b:91027**
Neumeyer, Pablo Andrés *see* **Alvarez, Fernando et al., 2004j:91191**
Nguyen Van Quy[2] *see* **Lê Dũng Mu'u, 2004e:90068**
Nowak, Andrzej S. (*with* Szajowski, Piotr) On Nash equilibria in stochastic games of capital accumulation. **2004m:91029**
— On a new class of nonzero-sum discounted stochastic games having stationary Nash equilibrium points. (English summary) **2004m:91030**
O'Connell, Thomas C. (*with* Stearns, Richard E.) Polynomial-time mechanisms for collective decision making. (English summary) (*see* **2004h:68003**)
Ohnishi, Kazuhiro A note on the most-favoured-customer pricing policy. (English summary)
Ohseto, Shinji Implementing egalitarian-equivalent allocation of indivisible goods on restricted domains. (English summary) **2004k:91127**
(Pardalos, Panos M.) *see* **Equilibrium problems: nonsmooth optimization and variational inequality methods, 2004g:90006**
Parreiras, Sérgio O. *see* **Fang, Hanming, 2004d:91081**
Pauly, Marc[2] *see* **Hansen, Helle Hvid, (2004j:68015)**
Pauzner, Ady *see* **Frankel, David M. et al., 2004b:91009**
Peeters, Ronald J. A. P. *see* **Herings, P. Jean-Jacques, 2004j:91040**
Pérez Castrillo, J. David *see* **Mutuswami, Suresh et al.**
Pfleiderer, Paul *see* **Admati, Anat R., 2004m:91045**
Pichler, Stefan *see* **Thurner, Stefan et al.**
Pilar Socorro, M. Mergers and the importance of fitting well. (English summary)
Pita, Cristina (*with* Torregrosa, Ramón J.) The concavity axiom in bilateral monopoly. (English summary) **2004e:91057**
Polowczuk, Wojciech Pure Nash equilibria in finite two-person non-zero-sum games. (English summary)
Quesada, Antonio Belief system foundations of backward induction. (English summary) **2004f:91037**
Rankin, Frederick W. Communication in ultimatum games. (English summary)
Raucci, Roberto (*with* Taddeo, Luigi) On generalized concavity and applications to optimization and game theory. (English summary) (*see* **2004g:90008**)
— *see also* **Morgan, Jacqueline, 2004h:49046**
Reddy, L. Venkateswara (*with* Mukherjee, Rathindra Nath[1]) Approximate saddle points for minmax problems and vector valued games. (English summary)
Ritzberger, Klaus *see* **Demichelis, Stefano, 2004i:91036**
Roberts, Fred S. Challenges for discrete mathematics and theoretical computer science in the defense against bioterrorism. (*see* **2004k:92003**)
Robson, Arthur J. *see* **Grégoire, Philippe, 2004j:91063**
Rochon, Céline *see* **Giraud, Gaël, 2004a:91090**
Romaniello, Maria *see* **Morgan, Jacqueline, 2004e:49010**
Rosenmüller, Joachim ★ Game theory. **2004c:91002**
Roth, Alvin E. *see* **Holt, Charles A.**
Ruckle, William H. (*with* Kikuta, Kensaku) Ethical behavior as transformation of utility. **2004f:91039**
— (*with* Kikuta, Kensaku) Special classes of quiet accumulation games. (English summary) **2004k:91009**
Sakaguchi, Minoru *see* **Mazalov, Vladimir V., 2004b:91006**
Sakamoto, Ryoji *see* **Ishibuchi, Hisao et al., 2004b:91027**
Salanié, F. *see* **Mahenc, P.**
Sarin, Rajiv *see* **Börgers, Tilman et al., 2004m:91043**
Scalzo, Vincenzo *see* **Brânzei, Rodica et al., 2004g:47072** *and* **Morgan, Jacqueline, 2004k:90130**
Segal, Ilya (*with* Whinston, Michael D.) Robust predictions for bilateral contracting with externalities. (English summary) **2004d:91151**
— Coordination and discrimination in contracting with externalities: divide and conquer? (English summary) **2004i:91124**
Shachat, Jason (*with* Walker, Mark[2]) Unobserved heterogeneity and equilibrium: an experimental study of Bayesian and adaptive learning in normal form games. (English summary)
Shalev, Jonathan *see* **Granot, Daniel et al., 2004b:91067**
Shimomura, Koji *see* **Krawczyk, Jacek B., 2004d:91171**
Sinha, Sagnik *see* **Ghosh, Mrinal K., 2004h:91023**
Sirakaya, Sibel (*with* Alemdar, Nedim M.) Genetic neural networks to approximate feedback Nash equilibria in dynamic games. (English summary) **2004i:91039**
Solan, Eilon (*with* Yariv, Leeat) Games with espionage. (English summary) **2004k:91010**
Stearns, Richard E. *see* **O'Connell, Thomas C., (2004h:68003)**
Ştefănescu, Anton Double implementation of voting operators. (English summary) **2004m:91073**
Szajowski, Piotr *see* **Nowak, Andrzej S., 2004m:91029**
Taddeo, Luigi *see* **Raucci, Roberto, (2004g:90008)**
Tateishi, Hiroshi On the existence of equilibria of equicontinuous games with incomplete information. (English summary) **2004k:91138**
Tennenholtz, Moshe *see* **Holzman, Ron et al., 2004k:91084**
Thibault, Emmanuel The power of love. (English summary)
Thomas, L. C. ★ Games, theory and applications. **2004j:91001**
Thoron, Sylvie Which acceptable agreements are equilibria? (English summary) **2004i:91064**
Thuijsman, Frank Recursive games. **2004m:91032**
Thurner, Stefan (*with* Hanel, Rudolf; Pichler, Stefan) Risk trading, network topology and banking regulation. (English summary)
Tijs, Stef ★ Introduction to game theory. **2004b:91001**
— *see also* **Brânzei, Rodica et al., 2004g:47072**
Tisljar, Rolf Optimal trading mechanisms for an informed seller. (English summary)
Torregrosa, Ramón J. *see* **Pita, Cristina, 2004e:91057**
Vasin, A. A. *see* **Bogdanov, A. V., 2004d:91032**
Vidal-Puga, Juan J. (*with* Bergantiños, Gustavo) An implementation of the Owen value. (English summary) **2004i:91030**
Vieille, Nicolas *see* **Gossner, Olivier, 2004j:91010**
Voorneveld, Mark *see* **Droste, Edward et al., 2004m:91180**
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Wärneryd, Karl Information in conflicts. (English summary) **2004d:91005**
Wauthy, Xavier J. *see* **Boccard, Nicolas, 2004i:91040**
Wettstein, David *see* **Mutuswami, Suresh et al.**
Whinston, Michael D. *see* **Segal, Ilya, 2004d:91151**
Wong, Siu-kee Existence of trading Nash equilibrium in tariff retaliation models. (English summary) **2004m:91171**
Xiang, Shu-wen *see* **Yu, Jian[1] et al., 2004f:47096** *and* **(2004d:91002)**
Xu, Xiaodong *see* **Du, Jiangfeng et al., 2004d:81029**
Xue, Jun Yi *see* **Zhang, Yu Bo et al.**
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— *see also* **Yu, Jian[1] et al., (2004d:91002)**
Yannelis, Nicholas C. *see* **Glycopantis, Dionysius et al., 2004h:91080**
Yariv, Leeat *see* **Solan, Eilon, 2004k:91010**
Yeltekin, Sevin *see* **Judd, Kenneth L. et al., 2004e:91025**
Yoshihara, Naoki *see* **Gotoh, Reiko, 2004f:91097**
Yu, Jian[1] (*with* Yang, Hui[4]; Xiang, Shu-wen) The stability of Nash equilibria for general n-person noncooperative games. (English summary) (*see* **2004d:91002**)
— (*with* Xiang, Shu-wen) The stability of the set of KKM points. (English summary) **2004f:47096**
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Zakharov, Viktor (*with* Melnikov, Valery V.) A game theoretic model for the network service. **2004m:91146**
Zauner, Klaus G. *see* **Costa-Gomes, Miguel A., 2004f:91122**
Zeng, Dao-Zhi An amendment to final-offer arbitration. (English summary) **2004d:91095**
Zhang, Yu Bo (*with* Luo, Xian Jue; Xue, Jun Yi) Bidding strategy analysis among electricity-generating units in a non-cooperative game with complete information. (Chinese. English and Chinese summaries)
Zhou, Xianyi *see* **Du, Jiangfeng et al., 2004d:81029**
Zhukovskiĭ, V. I. ★ Lyapunov functions in differential games. **2004d:91042**
Zou, Heng-Fu *see* **Gong, Liutang, 2004k:91147**

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Equilibrium problems: nonsmooth optimization and variational inequality methods
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91A12 Cooperative games

Abdulkadiroğlu, Atila (*with* Sönmez, Tayfun) Ordinal efficiency and dominated sets of assignments. (English summary)
Aihara, Kazuyuki *see* **Masuda, Naoki, 2004h:91020**
Akimova, Arina N. (*with* Zakharov, Viktor) Subcore and some egalitarian selectors of the core. (*see* **2004d:91002**)
— *see also* **Zakharov, Viktor, 2004g:91017** *and* **(2004b:91002)**
Albizuri, M. J. (*with* Santos López, Juan Carlos; Zarzuelo Zarzosa, José Manuel) On the serial cost sharing rule. (English summary) **2004e:91013**
Algaba, E. (*with* Bilbao, Jesús Mario; van den Brink, René; Jiménez-Losada, A.) Axiomatizations of the Shapley value for cooperative games on antimatroids. (English summary) **2004c:91010**
Alkan, Ahmet (*with* Gale, David) Stable schedule matching under revealed preference. (English summary) **2004e:91014**
Allouch, Nizar (*with* Florenzano, Monique) Edgeworth and Walras equilibria of an arbitrage-free exchange economy. (English summary) **2004j:91018**
Amer, Rafel (*with* Derks, Jean; Giménez, José Miguel) On cooperative games, inseparable by semivalues. (English summary) **2004j:91019**
— (*with* Giménez, José Miguel) Modification of semivalues for games with coalition structures. (English summary) **2004h:91017**
Andjiga, Nicolas-Gabriel (*with* Chantreuil, Frédéric; Lepelley, Dominique) La mesure du pouvoir de vote. (English and French summaries) [The measurement of voting power]
Apartsin, Yevgenia (*with* Holzman, Ron) The core and the bargaining set in glove-market games. (English summary) **2004j:91020**
Araszkiewicz, Bolesław *see* **Polkowski, Lech, 2004g:91014**
Arin, Javier (*with* Feltkamp, V.) Lorenz undominated allocations for TU-games: the weighted coalitional Lorenz solutions. (English summary) **2004a:91008**
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Ball, M. A. Outline of the superplayer theory of coalitions in superadditive n-person TU cooperative games. (*see* **2004d:91002**)
Barberà, Salvador (*with* Gerber, Anke) On coalition formation: durable coalition structures. (English summary) **2004f:91016**
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Bergantiños, Gustavo *see* **Vidal-Puga, Juan J., 2004i:91030**
Bhattacharya, Anindya On the equal division core. (English summary) **2004k:91016**
Bilbao, Jesús Mario (*with* Martínez-Legaz, Juan Enrique) Some applications of convex analysis to cooperative game theory. (English summary) **2004j:91021**

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— Cooperative games under augmenting systems. (English summary) **2004i:91016**
— *see also* **Algaba, E. et al., 2004c:91010** *and* **Martínez-Legaz, Juan Enrique**
Billot, Antoine (*with* Chateauneuf, Alain; Gilboa, Itzhak; Tallon, Jean-Marc) Bargaining over an uncertain outcome: the role of beliefs. (English summary) **2004a:91009**
Borm, Peter *see* **Meca-Martínez, Ana et al., 2004f:91021** *and* **van den Brink, René, 2004j:91022**
Bosch, Rob Political power and weakness. (Dutch) (*see* **2004i:00010**)
Brams, Steven J. (*with* Jones, Michael A.; Kilgour, D. Marc) Dynamic models of coalition formation: fallback versus build-up. (English summary)
Brânzei, Rodica (*with* Scotti, F.; Tijs, Stef; Torre, Anna) Discretization of information collecting situations and continuity of compensation rules. (English summary) (*see* **2004d:91002**)
— (*with* Dimitrov, Dinko; Tijs, Stef) Convex fuzzy games and participation monotonic allocation schemes. (English summary) **2004f:91017**
— (*with* Scotti, F.; Tijs, Stef; Torre, Anna) Discretization of information collecting situations and continuity of compensation rules. (English summary) **2004c:91011**
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— (*with* Borm, Peter) Digraph competitions and cooperative games. (English summary) **2004j:91022**
— *see also* **Algaba, E. et al., 2004c:91010**
Bukhtoyarov, S. E. *see* **Emelichev, Vladimir A.**
Burani, Nadia (*with* Zwicker, William S.) Coalition formation games with separable preferences. (English summary) **2004a:91010**
Cai, Mao Cheng *see* **Fang, Qizhi et al., 2004g:91008**
Carreras, Francesc (*with* Freixas, Josep; Puente, María Albina) Semivalues as power indices. (English summary) **2004e:91016**
Casas-Méndez, Balbina (*with* García-Jurado, Ignacio; van den Nouweland, Anne; Vázquez-Brage, Margarita) An extension of the τ-value to games with coalition structures. (English summary) **2004k:91018**
— (*with* Prada-Sánchez, José Manuel) On the properties of solutions for NTU communication situations. (English summary) **2004i:91018**
Cechlárová, Katarína (*with* Hajduková, Jana) Computational complexity of stable partitions with *B*-preferences. (English summary) **2004c:91012**
Cesco, Juan Carlos Fundamental cycles of pre-imputations in non-balanced TU-games. (English summary)
Chang, Chih (*with* Hwang, Yan-An) The Harsanyi-Shapley solution and independence of irrelevant expansions. (English summary) **2004j:91023**
Chantreuil, Frédéric *see* **Andjiga, Nicolas-Gabriel et al.**
Chateauneuf, Alain *see* **Billot, Antoine et al., 2004a:91009**
Chen, Zhonghui *see* **Zhang, Dexian et al., (2004d:91002)**
Cho, Sung-Bae *see* **Yang, Seung-Ryong, (2004d:91002)**
Corcho Sánchez, P. (*with* Ferreira, José Luis) Generalized externality games. (English summary) **2004i:91019**
Deng, Xiao-Tie *see* **Fang, Qizhi et al., 2004g:91008**
Derks, Jean (*with* Kuipers, Jeroen) On the number of extreme points of the core of a transferable utility game. (English summary) **2004m:91020**
— *see also* **Amer, Rafel et al., 2004j:91019**
Diamantoudi, Effrosyni Equilibrium binding agreements under diverse behavioral assumptions. (English summary)
— (*with* Xue, Licun) Farsighted stability in hedonic games. (English summary) **2004f:91018**
Diffo Lambo, Lawrence (*with* Moulen, Joël) Ordinal equivalence of power notions in voting games. (English summary) **2004g:91007**
Dimitrov, Dinko *see* **Brânzei, Rodica et al., 2004f:91017** *and* **2004k:91017**
Ding, Xie Ping (*with* Park, Jong Yeoul; Jung, Il Hyo) Pareto equilibria for constrained multiobjective games in locally *L*-convex spaces. (English summary) **2004i:91020**
Di Tillio, Alfredo A note on one-shot public mediated talk. (English summary) **2004j:91024**
Driessen, Theo S. H. (*with* Radzik, Tadeusz) Extensions of Hart and Mas-Colell's consistency to efficient, linear, and symmetric values for TU-games. (English summary) **2004e:91017**
— *see also* **Bilbao, Jesús Mario et al., 2004e:91015** *and* **Khmelnitskaya, Anna B., 2004f:91020**
Dubra, Juan (*with* Echenique, Federico) Information is not about measurability. (English summary) **2004j:91025**
Echenique, Federico *see* **Dubra, Juan, 2004j:91025**
Ehlers, Lars (*with* Klaus, Bettina) Coalitional strategy-proof and resource-monotonic solutions for multiple assignment problems. (English summary) **2004j:91026**
Emelichev, Vladimir A. (*with* Bukhtoyarov, S. E.) Stability of generally efficient situation in finite cooperative games with parametric optimality principle ("from Pareto to Nash"). (English summary)
Espinosa, María Paz (*with* Macho-Stadler, Inés) Endogenous formation of competing partnerships with moral hazard. (English summary) **2004d:91018**
Fang, Qizhi (*with* Zhu, Shanfeng; Cai, Mao Cheng; Deng, Xiao-Tie) On computational complexity of membership test in flow games and linear production games. (English summary) **2004g:91008**
Feltkamp, V. *see* **Arin, Javier, 2004a:91008**
Ferreira, José Luis *see* **Corcho Sánchez, P., 2004i:91019**
Flåm, Sjur Didrik (*with* Jourani, Abderrahim) Strategic behavior and partial cost sharing. (English summary) **2004d:91019**
Florenzano, Monique *see* **Allouch, Nizar, 2004j:91018**
Forges, Françoise (*with* Minelli, Enrico; Vohra, Rajiv) Incentives and the core of an exchange economy: a survey. (English summary) **2004e:91018**
Forgó, F. (*with* Szidarovszky, Ferenc) On the relation between the Nash bargaining solution and the weighting method. (English summary) **2004a:91011**
Fort, H. Exploring the cooperative regimes in an agent-based model: indirect reciprocity vs. selfish incentives. (English summary) **2004f:91019**
Freixas, Josep (*with* Puente, María Albina) Reliability importance measures of the components in a system based on semivalues and probabilistic values. (English summary) **2004c:91013**
— *see also* **Carreras, Francesc et al., 2004e:91016**
Friedman, Eric J. Strong monotonicity in surplus sharing. (English summary) **2004k:91019**
Funaki, Yukihiko (*with* Yamato, Takehiko) Credible coalition structures with externalities. (English summary) (*see* **2004d:91002**)
Gale, David *see* **Alkan, Ahmet, 2004e:91014**
Gambarelli, Gianfranco Transforming games from characteristic into normal form. (*see* **2004d:91002**)
García-Jurado, Ignacio *see* **Meca-Martínez, Ana et al., 2004f:91021** *and* **Casas-Méndez, Balbina et al., 2004k:91018**
van Gellekom, Anita *see* **Hokari, Toru, 2004h:91018** *and* **Potters, J. A. M. et al., 2004m:91022**
Gerber, Anke *see* **Barberà, Salvador, 2004f:91016**
Gilboa, Itzhak *see* **Billot, Antoine et al., 2004a:91009**
Giménez, José Miguel *see* **Amer, Rafel et al., 2004h:91017** *and* **2004j:91019**
Govindan, Srihari (*with* Reny, Philip J.; Robson, Arthur J.) A short proof of Harsanyi's purification theorem. (English summary) **2004k:91020**
Granot, Daniel (*with* Hamers, Herbert) On the equivalence between some local and global Chinese postman and traveling salesman graphs. (English summary) **2004i:91021**
Güth, Werner On the inconsistency of equilibrium refinement. (English summary) **2004j:91027**
Haimanko, Ori (*with* Le Breton, Michel; Weber, Shlomo) Voluntary formation of communities for the provision of public projects. (English summary) **2004m:91021**
Hajduková, Jana *see* **Cechlárová, Katarína, 2004c:91012**
Hamers, Herbert (*with* Klijn, Flip; Solymosi, Tamás; Tijs, Stef; Vermeulen, Dries) On the nucleolus of neighbor games. (English summary) **2004a:91012**
— *see also* **van Velzen, Bas et al., 2004c:91020**; **2004d:91029**; **Klijn, Flip et al., 2004h:91019** *and* **Granot, Daniel, 2004i:91021**
Hauert, Christoph (*with* Szabó, György[2]) Prisoner's dilemma and public goods games in different geometries: compulsory versus voluntary interactions. (English summary)
Herings, P. Jean-Jacques *see* **Predtetchinski, Arkadi, 2004m:91023**
Hokari, Toru (*with* van Gellekom, Anita) Population monotonicity and consistency in convex games: some logical relations. (English summary) **2004h:91018**
— (*with* Thomson, William L.) Claims problems and weighted generalizations of the Talmud rule. (English summary) **2004i:91022**
— (*with* Kıbrıs, Özgür) Consistency, converse consistency, and aspirations in TU-games. (English summary) **2004j:91028**
Holzman, Ron *see* **Apartsin, Yevgenia, 2004j:91020**
Hu, Xingwei (*with* Shapley, Lloyd S.) On authority distributions in organizations: equilibrium. (English summary) **2004j:91029**
— (*with* Shapley, Lloyd S.) On authority distributions in organizations: controls. (English summary) **2004j:91030**
Huang, Chen-Ying (*with* Sjöström, Tomas) Consistent solutions for cooperative games with externalities. (English summary) **2004d:91020**
Hwang, Yan-An Closedness under reduced games. (English summary) **2004i:91023**
— *see also* **Chang, Chih, 2004j:91023**
Jaffray, Jean-Yves (*with* Mongin, Philippe) Constrained egalitarianism in a simple redistributive model. (English summary)
Jennings, Nicholas R. *see* **Luo, Xudong et al.**
Jiménez-Losada, A. *see* **Algaba, E. et al., 2004c:91010** *and* **Bilbao, Jesús Mario et al., 2004e:91015**
Jones, Michael A. *see* **Brams, Steven J. et al.**
Jourani, Abderrahim *see* **Flåm, Sjur Didrik, 2004d:91019**
Jung, Il Hyo *see* **Ding, Xie Ping et al., 2004i:91020**
Kannai, Yakar Topological methods in cooperative games. (English summary)
Kern, Walter (*with* Paulusma, Daniël) Matching games: the least core and the nucleolus. (English summary) **2004c:91014**
Khmelnitskaya, Anna B. Shapley value for constant-sum games. (English summary)
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Kıbrıs, Özgür Ordinal invariance in multicoalitional bargaining. (English summary) **2004j:91031**
— *see also* **Hokari, Toru, 2004j:91028**
Kilgour, D. Marc *see* **Brams, Steven J. et al.**
Klaus, Bettina *see* **Ehlers, Lars, 2004j:91026**
Klijn, Flip (*with* Vermeulen, Dries; Hamers, Herbert; Solymosi, Tamás; Tijs, Stef; Villar, Joan Pere) Neighbor games and the leximax solution. (English summary) **2004h:91019**
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Kóczy, László Á. The core in the presence of externalities. (English summary) **2004g:91009**
— (*with* Lauwers, Luc) The coalition structure core is accessible. (English summary)
Konishi, Hideo (*with* Ray, Debraj) Coalition formation as a dynamic process. (English summary) **2004d:91021**
Kovalenkov, Alexander (*with* Wooders, Myrna) Approximate cores of games and economies with clubs. (English summary) **2004d:91022**
Kozłowski, Piotr (*with* Marsili, Matteo) Statistical mechanics of the majority game. (English summary) **2004k:91021**
Krabs, Werner A cooperative treatment of an *n*-person cost-goal-game. (English summary) **2004c:91015**
Krasa, Stefan (*with* Temimi, Akram; Yannelis, Nicholas C.) Coalition structure values in differential information economies: is unity a strength? (English summary) **2004e:91019**
Kuipers, Jeroen *see* **Arin, Javier et al., 2004m:91019** *and* **Derks, Jean, 2004m:91020**
van der Laan, G. *see* **Vasil'ev, Valeriĭ A., 2004b:91019**
Lauwers, Luc *see* **Kóczy, László Á.**
Le Breton, Michel *see* **Haimanko, Ori et al., 2004m:91021**
Lebrón, E. *see* **Bilbao, Jesús Mario et al., 2004e:91015**

Lee, Jimmy Ho-man *see* **Luo, Xudong et al.**
Lehrer, Ehud Allocation processes in cooperative games. (English summary) **2004b:91015**
Lepelley, Dominique *see* **Andjiga, Nicolas-Gabriel et al.**
Leung, Ho-fung *see* **Luo, Xudong et al.**
Levchenkov, V. S. *see* **Levchenkova, L. G., 2004c:91016**
Levchenkova, L. G. (*with* Levchenkov, V. S.) A power index in weighted voting systems. (English summary) **2004c:91016**
Leviatan, Sigal Consistent values and the core in continuum market games with two types of players. (English summary) **2004b:91016**
Li, Xue Liang *see* **Sun, Hao[2] et al., 2004k:91022**
Lindner, Ines (*with* Machover, Moshé) L. S. Penrose's limit theorem: proof of some special cases. (English summary) **2004j:91032**
López Vázquez, Jorge J. *see* **Romero García, J. Enrique, 2004m:91024**
Luo, Qun Generic stability of Nash equilibria for set-valued mappings. (Chinese. English and Chinese summaries) **2004j:91033**
Luo, Xudong (*with* Jennings, Nicholas R.; Shadbolt, Nigel R.; Leung, Ho-fung; Lee, Jimmy Ho-man) A fuzzy constraint based model for bilateral, multi-issue negotiations in semi-competitive. (English summary)
Macho-Stadler, Inés *see* **Espinosa, María Paz, 2004d:91018**
Machover, Moshé *see* **Lindner, Ines, 2004j:91032**
Mareš, Milan Two approaches to fuzzification of payments in NTU coalitional game. (English summary) **2004d:91023**
— (*with* Vlach, Milan) Alternative model of fuzzy NTU coalitional game. (English summary) **2004g:91010**
Marinacci, Massimo (*with* Montrucchio, Luigi) Subcalculus for set functions and cores of TU games. (English summary) **2004j:91034**
Marsili, Matteo *see* **Kozłowski, Piotr, 2004k:91021**
Martínez-Legaz, Juan Enrique (*with* Bilbao, Jesús Mario) ★ Some applications of convex analysis to cooperative game theory.
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— *see also* **Bilbao, Jesús Mario, 2004j:91021**
Masuda, Naoki (*with* Aihara, Kazuyuki) Spatial prisoner's dilemma optimally played in small-world networks. (English summary) **2004h:91020**
Maus, Stefan Balancedness and the core in economies with asymmetric information. (English summary) **2004g:91011**
McLean, Richard P. (*with* Postlewaite, Andrew) Informational size, incentive compatibility, and the core of a game with incomplete information. (English summary) **2004i:91024**
Meca-Martínez, Ana (*with* García-Jurado, Ignacio; Borm, Peter) Cooperation and competition in inventory games. (English summary) **2004f:91021**
— (*with* Timmer, Judith; García-Jurado, Ignacio; Borm, Peter) Inventory games. (English summary)
Meseguer, Álvaro *see* **Martínez-Legaz, Juan Enrique, 2004d:91024**
Messner, Matthias (*with* Polborn, Mattias K.) Cooperation in stochastic OLG games. (English summary) **2004b:91017**
Mihailović, Zoran *see* **Rajković, Milan, 2004h:91021**
Minelli, Enrico *see* **Forges, Françoise et al., 2004e:91018**
Młodak, Andrzej Three additive solutions of cooperative games with a priori unions. (English summary) **2004c:91017**
Mongin, Philippe *see* **Jaffray, Jean-Yves**
Montero, Maria *see* **Morelli, Massimo, 2004b:91018**
Montrucchio, Luigi *see* **Marinacci, Massimo, 2004j:91034**
Morelli, Massimo (*with* Montero, Maria) The demand bargaining set: general characterization and application to majority games. (English summary) **2004b:91018**
Moulen, Joël *see* **Diffo Lambo, Lawrence, 2004g:91007**
Moulin, Hervé (*with* Vohra, Rakesh V.) Characterization of additive cost sharing methods. (English summary) **2004e:91020**
Nandeibam, Shasikanta Implementation in teams. (English summary) **2004g:91012**
Norde, Henk *see* **Slikker, Marco et al., 2004a:91014** *and* **van Velzen, Bas et al., 2004d:91029**
van den Nouweland, Anne *see* **Slikker, Marco, 2004i:91028** *and* **Casas-Méndez, Balbina et al., 2004k:91018**
Núñez, Marina (*with* Rafels, Carles) The assignment game: the τ-value. (English summary) **2004d:91025**
— (*with* Rafels, Carles) Buyer-seller exactness in the assignment game. (English summary) **2004d:91026**
— (*with* Rafels, Carles) Characterization of the extreme core allocations of the assignment game. (English summary) **2004e:91021**
Ohuchi, Azuma *see* **Yamashita, Tomohisa, (2004d:91002)**
Okamoto, Yoshio Submodularity of some classes of the combinatorial optimization games. (English summary) **2004g:91013**
Orshan, Gooni (*with* Valenciano Llovera, Federico; Zarzuelo Zarzosa, José Manuel) The bilateral consistent prekernel, the core, and NTU bankruptcy problems. (English summary) **2004d:91027**
— (*with* Sudhölter, Peter) Reconfirming the prenucleolus. (English summary) **2004c:91018**
Otten, Gert-Jan (*with* Peters, Hans) The Shapley transfer procedure for NTU-games. **2004i:91025**
Park, Jong Yeoul *see* **Ding, Xie Ping et al., 2004i:91020**
Paulusma, Daniël *see* **Kern, Walter, 2004c:91014**
Pecherskiĭ, S. L. The Steiner point of a convex set and the cooperative games solutions. (English summary) (*see* **2004d:91002**)
Peleg, Bezalel (*with* Sudhölter, Peter) The dummy paradox of the bargaining set. (*see* **2004b:91002**)
— (*with* Sudhölter, Peter) ★ Introduction to the theory of cooperative games. **2004i:91026**
Peters, Hans *see* **Otten, Gert-Jan, 2004i:91025**
Polborn, Mattias K. *see* **Messner, Matthias, 2004b:91017**
Polkowski, Lech (*with* Araszkiewicz, Bolesław) A rough set approach to estimating the game value and the Shapley value from data. (English summary) **2004g:91014**
Postlewaite, Andrew *see* **McLean, Richard P., 2004i:91024**
Potters, J. A. M. (*with* Reijnierse, Hans; van Gellekom, Anita) The nucleolus as equilibrium price. **2004m:91022**
Prada-Sánchez, José Manuel *see* **Casas-Méndez, Balbina, 2004i:91018**
Predtetchinski, Arkadi (*with* Herings, P. Jean-Jacques) A necessary and sufficient condition for non-emptiness of the core of a non-transferable utility game. (English summary) **2004m:91023**
Puente, María Albina *see* **Freixas, Josep, 2004c:91013** *and* **Carreras, Francesc et al., 2004e:91016**
Qin, Lixu *see* **Shi, Weiren et al., 2004j:91035**
Radzik, Tadeusz *see* **Driessen, Theo S. H., 2004e:91017**
Rafels, Carles *see* **Núñez, Marina, 2004d:91025; 2004d:91026** *and* **2004e:91021**
Raghavan, T. E. S. *see* **Solymosi, Tamás et al., 2004d:91028**
Rajković, Milan (*with* Mihailović, Zoran) Quantifying complexity in the minority game. (English summary) **2004h:91021**
Ray, Debraj *see* **Konishi, Hideo, 2004d:91021**
Reijnierse, Hans *see* **Potters, J. A. M. et al., 2004m:91022**
Reisman, Arnold *see* **Saygin, Yücel et al., 2004h:91022**
Reny, Philip J. *see* **Govindan, Srihari et al., 2004k:91020**
Robson, Arthur J. *see* **Govindan, Srihari et al., 2004k:91020**
Romero García, J. Enrique (*with* López Vázquez, Jorge J.) Partial cooperation and convex sets. (English and Spanish summaries) **2004m:91024**
Rosenmüller, Joachim (*with* Sudhölter, Peter) Cartels via the modiclus. (English summary) **2004i:91027**
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Santos López, Juan Carlos *see* **Albizuri, M. J. et al., 2004e:91013**
Saygin, Yücel (*with* Reisman, Arnold; Wang, Yun Tong[2]) A game theoretic approach to value information in data mining. (English summary) **2004h:91022**
Scotti, F. *see* **Brânzei, Rodica et al., 2004c:91011** *and* **(2004d:91002)**
Segal, Ilya Collusion, exclusion, and inclusion in random-order bargaining. (English summary) **2004a:91013**
Shadbolt, Nigel R. *see* **Luo, Xudong et al.**
Shapley, Lloyd S. *see* **Hu, Xingwei, 2004j:91029** *and* **2004j:91030**
Shi, Weiren (*with* Qin, Lixu; Zhang, Li[9]; Xiong, Qingyu; Yan, Xinxiang) Fuzzy optimum decision-based multi-objective decision-making system and its application in determining the credibility of enterprise. (English summary) **2004j:91035**
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Shinotsuka, Tomoichi (*with* Takamiya, Koji) The weak core of simple games with ordinal preferences: implementation in Nash equilibrium. (English summary) **2004f:91022**
Sjöström, Tomas *see* **Huang, Chen-Ying, 2004d:91020**
Slikker, Marco (*with* van den Nouweland, Anne) Network formation, costs, and potential games. **2004i:91028**
— (*with* Norde, Henk; Tijs, Stef) Information sharing games. (English summary) **2004a:91014**
Smol'yakov, É. R. Theory of cooperative games without the use of characteristic functions. (Russian) **2004f:91023**
Solymosi, Tamás (*with* Raghavan, T. E. S.; Tijs, Stef) Bargaining sets and the core in permutation games. (English summary) **2004d:91028**
— *see also* **Hamers, Herbert et al., 2004a:91012** *and* **Klijn, Flip et al., 2004h:91019**
Sönmez, Tayfun *see* **Abdulkadiroğlu, Atila**
Sudhölter, Peter *see* **Orshan, Gooni, 2004c:91018; Peleg, Bezalel, 2004i:91026; (2004b:91002)** *and* **Rosenmüller, Joachim, 2004i:91027**
Sun, Hao[2] (*with* Wang, Li Gong; Li, Xue Liang) The standard property and the monotonic allocation schemes of values for set games. (Chinese. English and Chinese summaries) **2004k:91022**
Szabó, György[2] *see* **Hauert, Christoph**
Szidarovszky, Ferenc *see* **Forgó, F., 2004a:91011**
Szilagyi, Miklos N. Simulation of multi-agent prisoners' dilemmas. (English summary)
Takamiya, Koji *see* **Shinotsuka, Tomoichi, 2004f:91022**
Tallon, Jean-Marc *see* **Billot, Antoine et al., 2004a:91009**
Tanino, Tetsuzo Cooperative games and convex analysis. (Japanese)
Temimi, Akram *see* **Krasa, Stefan et al., 2004e:91019**
Thomson, William L. *see* **Hokari, Toru, 2004i:91022**
Tijs, Stef *see* **Hamers, Herbert et al., 2004a:91012; Slikker, Marco et al., 2004a:91014; Brânzei, Rodica et al., 2004c:91011; 2004f:91017; 2004k:91017; (2004d:91002); Solymosi, Tamás et al., 2004d:91028** *and* **Klijn, Flip et al., 2004h:91019**
Timmer, Judith *see* **Meca-Martínez, Ana et al.**
Toda, Manabu Consistency and its converse in assignment games. **2004f:91024**
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Torre, Anna *see* **Brânzei, Rodica et al., 2004c:91011** *and* **(2004d:91002)**
Tsanakas, Andreas (*with* Barnett, Christopher) Risk capital allocation and cooperative pricing of insurance liabilities. (English summary) **2004i:91029**
Ubeda, Luis Neutrality in arrow and other impossibility theorems. (English summary) **2004k:91023**
Valenciano Llovera, Federico *see* **Orshan, Gooni et al., 2004d:91027**
Vasil'ev, Valeriĭ A. (*with* van der Laan, G.) The Harsanyi set for cooperative TU-games. (English summary) **2004b:91019**
— Extreme points of the Weber polytope. (Russian. Russian summary) **2004f:91025**
Vázquez-Brage, Margarita *see* **Casas-Méndez, Balbina et al., 2004k:91018**
van Velzen, Bas (*with* Hamers, Herbert; Norde, Henk) Convexity and marginal vectors. (English summary) **2004d:91029**
— (*with* Hamers, Herbert) On the balancedness of relaxed sequencing games. (English summary) **2004c:91020**
Vermeulen, Dries *see* **Hamers, Herbert et al., 2004a:91012; Klijn, Flip et al., 2004h:91019** *and* **Arin, Javier et al., 2004m:91019**
Vidal-Puga, Juan J. (*with* Bergantiños, Gustavo) An implementation of the Owen value. (English summary) **2004i:91030**
Villar, Joan Pere *see* **Klijn, Flip et al., 2004h:91019**
Vlach, Milan *see* **Mareš, Milan, 2004g:91010**
Vohra, Rajiv *see* **Forges, Françoise et al., 2004e:91018**
Vohra, Rakesh V. *see* **Moulin, Hervé, 2004e:91020**
Wang, Bin[6] *see* **Zhang, Dexian et al., (2004d:91002)**

Wang, Li Gong *see* **Sun, Hao[2] et al., 2004k:91022**
Wang, Yun Tong[2] Simple random order methods to share costs. (English summary)
— *see also* **Saygin, Yücel et al., 2004h:91022**
Weber, Shlomo *see* **Haimanko, Ori et al., 2004m:91021**
Wiszniewska-Matyszkiel, Agnieszka The operation of ecosystems and game theory. II. Cooperation. (Polish)
Wooders, Myrna *see* **Kovalenkov, Alexander, 2004d:91022**
Xiong, Qingyu *see* **Shi, Weiren et al., 2004j:91035**
Xue, Licun *see* **Diamantoudi, Effrosyni, 2004f:91018**
Yamashita, Tomohisa (*with* Ohuchi, Azuma) N-person prisoner's dilemma with mutual choice by agent-based modeling. (English summary) (*see* **2004d:91002**)
Yamato, Takehiko *see* **Funaki, Yukihiko, (2004d:91002)**
Yan, Xinxiang *see* **Shi, Weiren et al., 2004j:91035**
Yang, Hui[4] Essential components of the set of weakly Pareto-Nash equilibria for multiobjective generalized games. (English summary) **2004g:91016**
Yang, Seung-Ryong (*with* Cho, Sung-Bae) Social agents with strategic coalition generalize well in the IPD game. (English summary) (*see* **2004d:91002**)
Yannelis, Nicholas C. *see* **Krasa, Stefan et al., 2004e:91019**
Yanovskaya, Elena A family of the least power values for cooperative TU games. (English summary) **2004b:91020**
— Consistency for proportional solutions. (English summary) **2004j:91036**
Zakharov, Viktor (*with* Akimova, Arina N.) Geometrical properties of the core, subcore and nucleolus. (*see* **2004b:91002**)
— (*with* Akimova, Arina N.) Some selections of C-core. (English summary) **2004g:91017**
— *see also* **Akimova, Arina N., (2004d:91002)**
Zarzuelo Zarzosa, José Manuel *see* **Orshan, Gooni et al., 2004d:91027** *and* **Albizuri, M. J. et al., 2004e:91013**
Zhang, Dexian (*with* Chen, Zhonghui; Wang, Bin[6]) A random analysis of the R& D model in oligopoly with spillover effects. (English summary) (*see* **2004d:91002**)
Zhang, Li[9] *see* **Shi, Weiren et al., 2004j:91035**
Zhu, Shanfeng *see* **Fang, Qizhi et al., 2004g:91008**
Zwicker, William S. *see* **Burani, Nadia, 2004a:91010**

Items with secondary classifications in 91A12

Aadland, David Cattle cycles, heterogeneous expectations and the age distribution of capital. (English summary)
Adachi, Hiroyuki A search model of two-sided matching under nontransferable utility. (English summary) **2004i:91154**
Adjabi, S. *see* **Radjef, M. S., 2004d:91038**
Aharoni, Ron (*with* Fleiner, Tamás) On a lemma of Scarf. (English summary) **2004b:05143**
Alcantud, José C. R. (*with* Bosi, Gianni) On the existence of certainty equivalents of various relevant types. **2004g:91039**
Aliprantis, Charalambos D. (*with* Monteiro, Paulo K.; Tourky, Rabee) Non-marketed options, non-existence of equilibria, and non-linear prices. (English summary) **2004k:91079**
Allen, Beth Incentives in market games with asymmetric information: the core. (English summary)
Alós-Ferrer, Carlos Finite population dynamics and mixed equilibria. (English summary) **2004j:91045**
Anderson, Robert M. (*with* Zame, William R.) Genericity with infinitely many parameters. (English summary) **2004g:91038**
Archer, Aaron (*with* Feigenbaum, Joan; Krishnamurthy, Arvind[1]; Sami, Rahul; Shenker, Scott) Approximation and collusion in multicast cost sharing. (English summary) **2004k:91011**
Arnold, Tone *see* **Blume, Andreas, 2004j:91059**
d'Aspremont, Claude (*with* Crémer, Jacques; Gérard-Varet, Louis-André) Balanced Bayesian mechanisms. (English summary) **2004m:91079**
Ausubel, Lawrence M. (*with* Milgrom, Paul R.) Ascending auctions with package bidding. (English summary) **2004g:91056**
Ayoshin, D. A. *see* **Petrosyan, Leon A., 2004m:91037**
Azoulay-Schwartz, Rina (*with* Kraus, Sarit) Stable repeated strategies for information exchange between two autonomous agents. (English summary) **2004m:91035**
Bahçeci, Serkan The incentive compatible coarse core when information is almost complete. (English summary) **2004c:91066**
Banerjee, Abhijit (*with* Fudenberg, Drew) Word-of-mouth learning. (English summary) **2004j:91058**
Bergstrom, Theodore C. The algebra of assortative encounters and the evolution of cooperation. (English summary) **2004j:91046**
Blume, Andreas (*with* Arnold, Tone) Learning to communicate in cheap-talk games. (English summary) **2004j:91059**
Bonanno, Giacomo Memory and perfect recall in extensive games. (English summary) **2004m:91033**
Borm, Peter (*with* Suijs, Jeroen) Stochastic cooperative games: theory and applications. **2004j:91038**
— (*with* van den Brink, René; Levínský, René; Slikker, Marco) On two new social choice correspondences. (English summary) **2004i:91057**
Bosi, Gianni *see* **Alcantud, José C. R., 2004g:91039**
van den Brink, René *see* **Borm, Peter et al., 2004i:91057**
Budinská, Ivana *see* **Dang, T.-Tung et al., 2004f:90066**
Cai, Mao Cheng *see* **Fang, Qizhi et al., 2004b:91035**
Carlier, Guillaume (*with* Dana, Rose-Anne) Pareto efficient insurance contracts when the insurer's cost function is discontinuous. (English summary) **2004d:91137**
Cason, Timothy N. (*with* Friedman, Daniel) Buyer search and price dispersion: a laboratory study. (English summary) **2004g:91059**
Chae, Suchan (*with* Heidhues, Paul) A group bargaining solution. (English summary) **2004m:91085**
Che, Yeon-Koo *see* **Kim, Jinwoo, 2004j:91103**
Chiarella, Carl *see* **Engel, Andrew et al., 2004h:91105**
Coolen, A. C. C. Non-equilibrium statistical mechanics of minority games. (English summary) **2004h:60148**
Cornet, Maarten F. Partition function bargaining with public demands. (English summary) **2004g:91120**
Crémer, Jacques *see* **d'Aspremont, Claude et al., 2004m:91079**
Curiel, Imma (*with* Hamers, Herbert; Klijn, Flip) Sequencing games: a survey. **2004k:91060**
Dal Forno, Arianna (*with* Montrucchio, Luigi) Optimality conditions and bubbles in sequential economies and bounded relative risk-aversion. (English summary) **2004d:90122**
van Damme, Eric (*with* Furth, Dave) Game theory and the market. **2004i:91071**
Dana, Rose-Anne *see* **Carlier, Guillaume, 2004d:91137**
Dang, T.-Tung (*with* Frankovič, Baltazár; Budinská, Ivana) Optimal creation of agent coalitions for manufacturing and control. (English summary) **2004f:90066**
Dementieva, Maria B. *see* **Zakharov, Viktor, (2004d:91002)**
Deng, Xiao-Tie *see* **Fang, Qizhi et al., 2004b:91035**
De Simone, Anna (*with* Graziano, Maria Gabriella) Cone conditions in oligopolistic market models. (English summary) **2004a:91089**
Du, Jiangfeng *see* **Li, Hui[5] et al., 2004f:81062**
Dubey, Pradeep (*with* Geanakoplos, John; Shubik, Martin) Is gold an efficient store of value? (English summary) **2004h:91044**
Durlauf, Steven (*with* Seshadri, A.) Is assortative matching efficient? (English summary) **2004h:91104**
Echenique, Federico The equilibrium set of two-player games with complementarities is a sublattice. (English summary)
Edelman, Paul H. Voting power and at-large representation. (English summary) **2004j:91076**
Ein-Dor, Phillip *see* **Leshno, Moshe et al., 2004d:91060**
Engel, Andrew (*with* Szidarovszky, Ferenc; Chiarella, Carl) A game theoretical partially cooperative model of international fishing with time delay. (English summary) **2004h:91105**
Fang, Qizhi (*with* Cai, Mao Cheng; Deng, Xiao-Tie) Total balancedness condition for Steiner tree games. (English summary) **2004b:91035**
Fang, Shu-Cherng (*with* Nuttle, Henry L. W.; Wang, Dingwei) Fuzzy formulation of auctions and optimal sequencing for multiple auctions. (English summary) **2004m:91086**
Feigenbaum, Joan *see* **Archer, Aaron et al., 2004k:91011**
Flåm, Sjur Didrik Stochastic programming, cooperation, and risk exchange. (English summary) **2004j:90066**
Fleiner, Tamás *see* **Aharoni, Ron, 2004b:05143**
Forges, Françoise The ex ante incentive compatible core of the assignment game. (English summary) **2004j:91098**
Fragnelli, Vito (*with* Marina Borghesani, Maria Erminia) A fair procedure in insurance. (English summary) **2004i:91108**
— (*with* García-Jurado, Ignacio; Méndez-Naya, Luciano) A note on bus games. (English summary) **2004i:91118**
Franco Manero, María Angeles *see* **Mallor Giménez, Fermín et al., 2004a:91043**
Frankovič, Baltazár *see* **Dang, T.-Tung et al., 2004f:90066**
Freixas, Josep (*with* Zwicker, William S.) Weighted voting, abstention, and multiple levels of approval. (English summary) **2004i:91052**
Friedman, Daniel *see* **Cason, Timothy N., 2004g:91059**
Fudenberg, Drew *see* **Banerjee, Abhijit, 2004j:91058**
Fujita, Masahisa (*with* Thisse, Jacques-François) Does geographical agglomeration Foster economic growth? And who gains and loses from it? (English summary) **2004d:91167**
Furth, Dave *see* **van Damme, Eric, 2004i:91071**
García-Jurado, Ignacio *see* **Fragnelli, Vito et al., 2004i:91118**
Gaspart, Frédéric A general concept of procedural fairness for one-stage implementation. (English summary) **2004j:91009**
Geanakoplos, John *see* **Dubey, Pradeep et al., 2004h:91044**
Gérard-Varet, Louis-André *see* **d'Aspremont, Claude et al., 2004m:91079**
Germain, Marc (*with* Toint, Philippe L.; Tulkens, Henry; de Zeeuw, Aart) Transfers to sustain dynamic core-theoretic cooperation in international stock pollutant control. (English summary) **2004g:91030**
Giraud, Gaël (*with* Rochon, Céline) Generic efficiency and collusion-proofness in exchange economies. (English summary) **2004b:91070**
— (*with* Weyers, Sonia) Strategic market games with a finite horizon and incomplete markets. (English summary) **2004k:91083**
Gómez-Elvira, Sagrario *see* **Mallor Giménez, Fermín et al., 2004a:91043**
Gómez González, Daniel (*with* González-Arangüena, Enrique; Manuel, Conrado; Owen, Guillermo; del Pozo, Mónica; Tejada Cazorla, Juan) Centrality and power in social networks: a game theoretic approach. (English summary) **2004d:91195**
González-Arangüena, Enrique *see* **Gómez González, Daniel et al., 2004d:91195**
Granot, Daniel (*with* Sošić, Greys) A three-stage model for a decentralized distribution system of retailers. (English summary) **2004g:90054**
Graziano, Maria Gabriella *see* **De Simone, Anna, 2004a:91089**
Hamers, Herbert *see* **Curiel, Imma et al., 2004k:91060**
Hansen, Helle Hvid (*with* Pauly, Marc[2]) Axiomatising Nash-consistent coalition logic. (English summary) (*see* **2004j:68015**)
Heidhues, Paul *see* **Chae, Suchan, 2004m:91085**
Huang, Long Guang (*with* Liu, San Yang) Cone characterizations of Pareto, weak and proper efficient points. (Chinese. English and Chinese summaries)
Huck, Steffen (*with* Normann, Hans-Theo; Oechssler, Jörg) Zero-knowledge cooperation in dilemma games. (English summary)
Kaluski, J. An n-person stochastic game with coalitions. (English summary) **2004g:91019**
Kawamori, Tomohiko Uncertainty of time intervals and possibility of collusion in infinitely repeated games. (English summary)
Kıbrıs, Özgür Constrained allocation problems with single-peaked preferences: an axiomatic analysis. (English summary) **2004d:91146**
Kikuta, Kensaku Game theoretic analysis of a stochastic inventory control problem.
Kim, Jinwoo (*with* Che, Yeon-Koo) Asymmetric information about rivals' types in standard auctions. (English summary) **2004j:91103**

Klijn, Flip *see* **Curiel, Imma et al., 2004k:91060**
Kóczy, László Á. Finding the best way to join in: a dynamic accession game. (English summary) (*see* **2004h:68003**)
Kraus, Sarit *see* **Azoulay-Schwartz, Rina, 2004m:91035**
Krieger, Thomas On Pareto equilibria in vector-valued extensive form games. (English summary) **2004i:91032**
Krishnamurthy, Arvind[1] *see* **Archer, Aaron et al., 2004k:91011**
Leshno, Moshe (*with* Moller, David; Ein-Dor, Phillip) Neural nets in a group decision process. (English summary) **2004d:91060**
Levínský, René *see* **Borm, Peter et al., 2004i:91057**
Li, Chu Lin *see* **Mei, Zhengyang, (2004d:91002)**
Li, Feng Study of conspiracy between banks of the infinite repeated game. (Chinese. English and Chinese summaries)
Li, Hui[5] (*with* Du, Jiangfeng; Massar, Serge) Continuous-variable quantum games. (English summary) **2004f:81062**
Liu, San Yang *see* **Huang, Long Guang**
Llorca, Natividad (*with* Tijs, Stef; Timmer, Judith) Semi-infinite assignment problems and related games. (English summary) **2004a:90097**
Mallor Giménez, Fermín (*with* Gómez-Elvira, Sagrario; Franco Manero, María Angeles) A stochastic model for the Shapley value. **2004a:91043**
Manuel, Conrado *see* **Gómez González, Daniel et al., 2004d:91195**
Marina Borghesani, Maria Erminia *see* **Fragnelli, Vito, 2004i:91108**
Massar, Serge *see* **Li, Hui[5] et al., 2004f:81062**
Mei, Zhengyang (*with* Li, Chu Lin) Strategic analysis and application of corporate debt. (English summary) (*see* **2004d:91002**)
Méndez-Naya, Luciano *see* **Fragnelli, Vito et al., 2004i:91118**
Mertens, Jean-François (*with* Neyman, Abraham) A value on $'AN$. (English summary) **2004m:91069**
Mihailović, Zoran (*with* Rajković, Milan) One dimensional asynchronous cooperative Parrondo's games. (English summary) **2004j:91043**
— (*with* Rajković, Milan) Synchronous cooperative Parrondo's games. (English summary) **2004j:91044**
Milchtaich, Igal Social optimality and cooperation in nonatomic congestion games. (English summary) **2004k:91013**
Milgrom, Paul R. *see* **Ausubel, Lawrence M., 2004g:91056**
Molina, Elisenda (*with* Tejada Cazorla, Juan) Linear production games with committee control: limiting behaviour of the core. (English summary) **2004j:91091**
Moller, David *see* **Leshno, Moshe et al., 2004d:91060**
Monteiro, Paulo K. *see* **Aliprantis, Charalambos D. et al., 2004k:91079**
Montesano, Aldo Uncertainty with partial information on the possibility of the events. (English summary) **2004f:91056**
Montrucchio, Luigi *see* **Dal Forno, Arianna, 2004d:90122**
Murofushi, Toshiaki *see* **Narukawa, Yasuo, 2004h:28002**
Mutuswami, Suresh (*with* Winter, Eyal) Subscription mechanisms for network formation. (English summary) **2004a:91098**
— (*with* Pérez Castrillo, J. David; Wettstein, David) Bidding for the surplus: realizing efficient outcomes in economic environments. (English summary)
Nandeibam, Shasikanta Distribution of coalitional power in randomized multi-valued social choice. (English summary) **2004a:91047**
Narukawa, Yasuo (*with* Murofushi, Toshiaki) Conditions for Choquet integral representation of the comonotonically additive and monotone functional. (English summary) **2004h:28002**
Neyman, Abraham *see* **Mertens, Jean-François, 2004m:91069**
Nishimura, Yukihiro Optimal commodity taxation for reduction of envy. (English summary) **2004i:91151**
Normann, Hans-Theo *see* **Huck, Steffen et al.**
Nuttle, Henry L. W. *see* **Fang, Shu-Cherng et al., 2004m:91086**
Oechssler, Jörg *see* **Huck, Steffen et al.**
Okamoto, Yoshio Traveling salesman games with the Monge property. (English summary) **2004m:90185**
Olszewski, Wojciech Coalition strategy-proof mechanisms for provision of excludable public goods. (English summary) **2004j:91086**
Owen, Guillermo *see* **Gómez González, Daniel et al., 2004d:91195**
Pauly, Marc[2] *see* **Hansen, Helle Hvid, (2004j:68015)**
Pérez Castrillo, J. David *see* **Mutuswami, Suresh et al.**
Petrosyan, Leon A. (*with* Ayoshin, D. A.) The value of dynamic games with partial cooperation. (English summary) **2004m:91037**
Pintassilgo, Pedro A coalition approach to the management of high seas fisheries in the presence of externalities. (English summary) **2004g:91121**
Podczeck, Konrad Core and Walrasian equilibria when agents' characteristics are extremely dispersed. (English summary) **2004k:91137**
(Postlewaite, Andrew) *see* **Special Issue: In honor of Robert W. Rosenthal**
Postolică, Vasile Pareto efficiency, Choquet boundaries and operators in Hausdorff locally convex spaces. (English summary) **2004a:90083**
del Pozo, Mónica *see* **Gómez González, Daniel et al., 2004d:91195**
Prat, Andrea (*with* Rustichini, Aldo) Games played through agents. (English summary) **2004i:91014**
Radjef, M. S. (*with* Adjabi, S.) On the existence of a stable imputation in a positional cooperative differential game. (English summary) **2004d:91038**
Rajković, Milan *see* **Mihailović, Zoran, 2004j:91043** *and* **2004j:91044**
Reijnierse, Hans *see* **Tijs, Stef, 2004j:90108**
Riedel, Frank Arrow-Debreu equilibria with asymptotically heterogeneous expectations exist. (English summary) **2004d:91159**
Rochon, Céline *see* **Giraud, Gaël, 2004b:91070**
Rosenmüller, Joachim ★ Game theory. **2004c:91002**
Rosenthal, Robert W. *see* **Szentes, Balázs, 2004j:91108** *and* **Special Issue: In honor of Robert W. Rosenthal**
Rustichini, Aldo *see* **Prat, Andrea, 2004i:91014**
Safra, Zvi (*with* Samet, Dov) An ordinal solution to bargaining problems with many players. (English summary) **2004i:91080**
Saitoh, Hiroki Existence of positive equilibrium price vectors in indivisible goods markets: a note. (English summary) **2004m:91165**
Samet, Dov *see* **Safra, Zvi, 2004i:91080**
Sami, Rahul *see* **Archer, Aaron et al., 2004k:91011**
Schwalbe, Ulrich The core of a production economy with asymmetric information. (English summary) **2004h:91088**
Seshadri, A. *see* **Durlauf, Steven, 2004h:91104**
Shenker, Scott *see* **Archer, Aaron et al., 2004k:91011**
Shmyrëv, V. I. Finding equilibrium in a class of production-exchange models. (Russian. Russian summary) **2004f:91106**
Shubik, Martin *see* **Dubey, Pradeep et al., 2004h:91044**
Skyrms, Brian *see* **Vanderschraaf, Peter, 2004h:91035**
Slikker, Marco *see* **Borm, Peter et al., 2004i:91057**
Sošić, Greys *see* **Granot, Daniel, 2004g:90054**
Sotomayor, Marilda Some further remark on the core structure of the assignment game. (English summary) **2004m:91185**
Strausz, Roland Deterministic mechanisms and the revelation principle. (English summary) **2004d:91091**
Suijs, Jeroen Cost allocation in spanning network enterprises with stochastic connection costs. (English summary) **2004b:90018**
— *see also* **Borm, Peter, 2004j:91038**
Szentes, Balázs (*with* Rosenthal, Robert W.) Beyond chopsticks: symmetric equilibria in majority auction games. (English summary) **2004j:91108**
Szidarovszky, Ferenc *see* **Engel, Andrew et al., 2004h:91105**
Takamiya, Koji On strategy-proofness and essentially single-valued cores: a converse result. (English summary) **2004a:91039**
Tarakanov, A. F. A two-coalition differential game under conditions of uncertainty. (Russian. Russian summary) **2004f:91033**
Tejada Cazorla, Juan *see* **Gómez González, Daniel et al., 2004d:91195** *and* **Molina, Elisenda, 2004j:91091**
Thisse, Jacques-François *see* **Fujita, Masahisa, 2004d:91167**
Thomas, L. C. ★ Games, theory and applications. **2004j:91001**
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(Harris, Christopher J.) *see* **Luttmer, Erzo G. J.**
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Kraus, Sarit *see* **Azoulay-Schwartz, Rina**, **2004m:91035**
Lambson, Val E. (*with* Probst, Daniel A.) Learning by matching patterns. (English summary) **2004j:91042**
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(Reny, Philip J.) *see* **Luttmer, Erzo G. J.**
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Sakamoto, Ryoji *see* **Ishibuchi, Hisao et al.**, **2004b:91027**
Saley, Hadiza Moussa *see* **De Meyer, Bernard**, **2004b:91024**
Sanchirico, Chris *see* **Athey, Susan et al.**, **2004m:91034**
Schindelhauer, Christian *see* **Piccolboni, Antonio**, (**2004j:68005**)
Sekiguchi, Tadashi *see* **Mailath, George J. et al.**, **2004g:91021**
Sirakaya, Sibel *see* **Alemdar, Nedim M.**, **2004a:91016**
Stearns, Richard E. *see* **O'Connell, Thomas C.**, **2004d:91033**
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Vasin, A. A. *see* **Bogdanov, A. V.**, **2004d:91032**
Vieille, Nicolas *see* **Gossner, Olivier**, **2004b:91025**
Wen, Quan[1] *see* **Takahashi, Satoru**, **2004b:91029**
Yeltekin, Sevin *see* **Judd, Kenneth L. et al.**, **2004e:91025**
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Items with secondary classifications in 91A20

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Joosten, Reinoud (*with* Brenner, Thomas; Witt, Ulrich) Games with frequency-dependent stage payoffs. (English summary)
Jourani, Abderrahim *see* **Flåm, Sjur Didrik**, **2004d:91019**
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Macho-Stadler, Inés *see* **Espinosa, María Paz**, **2004d:91018**
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Pesendorfer, Martin *see* **Jofre-Bonet, Mireia**, **2004e:91055**
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Sarin, Rajiv *see* **Börgers, Tilman et al.**, **2004m:91043**
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Walker, Mark[2] *see* **Shachat, Jason**
Weber, Robert James *see* **Ferguson, Thomas S. et al.**, **2004e:91022**
Witt, Ulrich *see* **Joosten, Reinoud et al.**
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Yildiz, Muhamet Bargaining without a common prior—an immediate agreement theorem. (English summary) **2004g:91066**
Zabelin, Anatoly A. *see* **Mazalov, Vladimir V. et al.**, **2004a:91002***and* (**2004b:91002**)

91A22 Evolutionary games

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Demichelis, Stefano (*with* Ritzberger, Klaus) From evolutionary to strategic stability. (English summary) **2004i:91036**
Duffy, John *see* **Bicchieri, Cristina et al.**
Ely, Jeffrey C. Local conventions. (English summary) **2004g:91023**
Eshel, Ilan (*with* Sansone, Emilia) Evolutionary and dynamic stability in continuous population games. (English summary) **2004e:91027**
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Iwanaga, Saori *see* **Namatame, Akira**, (**2004d:91002**)
Jiménez, Edward Quantum games: mixed strategy Nash's equilibrium represents minimum entropy. (English summary) **2004m:91038**
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Lee, In Ho (*with* Szeidl, Adam; Valentinyi, Akos) Contagion and state dependent mutations. (English summary) **2004f:91029**
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Sansone, Emilia *see* **Eshel, Ilan**, **2004e:91027**
Sigmund, Karl *see* **Hofbauer, Josef**, **2004g:91024**
Swinkels, Jeroen M. *see* **Samuelson, Larry**
Szeidl, Adam *see* **Lee, In Ho et al.**, **2004f:91029**
Tolle, Gil *see* **Bicchieri, Cristina et al.**
Valentinyi, Akos *see* **Lee, In Ho et al.**, **2004f:91029**
Vasin, A. A. *see* **Bogdanov, A. V.**, **2004d:91034**
Weibull, Jörgen W. *see* **Benaïm, Michel**, **2004g:91022**
Zapata Lillo, Paloma Agree in order to play, or play in order to agree? (Spanish. Spanish summary) **2004d:91035**

Items with secondary classifications in 91A22

Abreu, Dilip (*with* Sethi, Rajiv) Evolutionary stability in a reputational model of bargaining. (English summary) **2004e:91031**
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(Amir, Rabah) *see* **Evolutionary game theory**
Ben-Shoham, Assaf (*with* Serrano, Roberto; Volij, Oscar) The evolution of exchange. (English summary) **2004k:91026**
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Bomze, Immanuel M. Regularity versus degeneracy in dynamics, games, and optimization: a unified approach to different aspects. (English summary) **2004b:90078**
Büyükkeçeci, Serhan *see* **Yüksel, Nural**
Casillas, L. *see* **Rodríguez-Achach, M. et al.**
Cho, Sung-Bae *see* **Yang, Seung-Ryong**, (**2004d:91002**)
Cowan, Robin (*with* Jonard, Nicolas) Network structure and the diffusion of knowledge. (English summary) **2004m:91173**
De Monte, Silvia *see* **Hauert, Christoph et al.**
Durlauf, Steven *see* **Blume, Lawrence E.**, **2004j:91207**
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Engel, Andreas Game theory and statistical mechanics. (English summary) (*see* **2004e:82001**)
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Grégoire, Philippe (*with* Robson, Arthur J.) Imitation, group selection and cooperation. (English summary) **2004j:91063**
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Hauser, Helwig *see* **Bischi, Gian Italo et al.**, **2004d:37150**
Hofbauer, Josef *see* **Hauert, Christoph et al.**
Horn, Christian *see* **Metzler, Richard Martin**, **2004j:92056**
Hui, Pak-ming *see* **Quan, Hong-Jun et al.**, **2004g:82128**
Jonard, Nicolas *see* **Cowan, Robin**, **2004m:91173**
(Knudsen, Thorbjørn) *see* **Evolutionary game theory**
Komarova, N. L. (*with* Niyogi, Partha) Optimizing the mutual intelligibility of linguistic agents in a shared world. (English summary) **2004m:68247**
Leimar, Olof *see* **Mazalov, Vladimir V.**, (**2004d:91002**)
Lessard, Sabin *see* **Tao, Yi**, **2004j:92087**
Luo, Xiao-Shu *see* **Quan, Hong-Jun et al.**, **2004g:82128**
Masuda, Naoki (*with* Aihara, Kazuyuki) Spatial prisoner's dilemma optimally played in small-world networks. (English summary) **2004h:91020**
Matros, A. D. Clever agents in adaptive learning. (English summary) **2004e:91033**
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Mohtashemi, Mojdeh (*with* Mui, Lik) Evolution of indirect reciprocity by social information: the role of trust and reputation in evolution of altruism. (English summary)
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Ohtsuki, Hisashi Reactive strategies in indirect reciprocity. (English summary)
Ohuchi, Azuma *see* **Yamashita, Tomohisa**, (**2004d:91002**)
Possajennikov, Alex Evolutionary foundations of aggregate-taking behavior. (English summary) **2004d:91014**
Poulsen, Anders U. On efficiency, tie-breaking rules and role assignment procedures in evolutionary bargaining. (English summary) **2004k:91089**
Prasad, Kislaya *see* **Dutta, Jayasri**, **2004a:91084**
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Riedel, Frank *see* **Oechssler, Jörg**, **2004a:91006**
Robson, Arthur J. *see* **Grégoire, Philippe**, **2004j:91063**
Rodríguez-Achach, M. (*with* Casillas, L.; Espinosa, F. J.) Diffusion of innovations in a social network under mixed Pareto-Nash strategies. (English summary)
Samuelson, Larry *see* **Binmore, Ken et al.**, **2004j:91095**
Sasaki, Akira[2] *see* **Nakamaru, Mayuko**
Schreiber, Sebastian J. (*with* Tobiason, Glory A.) The evolution of resource use. (English summary) **2004g:92048**
Serrano, Roberto *see* **Ben-Shoham, Assaf et al.**, **2004k:91026**
Sethi, Rajiv *see* **Abreu, Dilip**, **2004e:91031**
Sigmund, Karl *see* **Hauert, Christoph et al.**
Stenull, Olaf *see* **Hauert, Christoph**
Szabó, György[2] *see* **Hauert, Christoph**
Számadó, Szabolcs Threat displays are not handicaps. (English summary)
Tao, Yi (*with* Lessard, Sabin) Frequency-dependent selection in sexual family-structured populations. (English summary) **2004j:92087**
Temzelides, Ted *see* **Blume, Andreas**, **2004h:91012**

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Tobiason, Glory A. *see* **Schreiber, Sebastian J., 2004g:92048**
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Volij, Oscar *see* **Ben-Shoham, Assaf et al., 2004k:91026**
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Wang, Bing Hong[1] *see* **Quan, Hong-Jun et al., 2004g:82128** *and* **Xie, Yan Bo et al.**
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91A23 Differential games [see also 49N70]

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91A25 Dynamic games

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91A26 Rationality, learning

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Grosskopf, Brit *see* **Charness, Gary**
Haimanko, Ori *see* **Dubey, Pradeep, 2004j:91061**
Hanaki, Nobuyuki Action learning versus strategy learning. (English summary)
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Pichler, Stefan *see* **Thurner, Stefan et al.**
Probst, Daniel A. *see* **Lambson, Val E., 2004j:91042**
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Siniscalchi, Marciano *see* **Battigalli, Pierpaolo, 2004i:91069**
Sopher, Barry *see* **Friedman, Eric J. et al.**
Squintani, Francesco Moral hazard, renegotiation, and forgetfulness. (English summary) **2004d:91030**
Stearns, Richard E. *see* **O'Connell, Thomas C., 2004d:91033**
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Vermeulen, Dries *see* **Schinkel, Maarten Pieter et al., 2004a:91092**
Vieille, Nicolas *see* **Gossner, Olivier, 2004j:91010**
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Zauner, Klaus G. *see* **Costa-Gomes, Miguel A., 2004f:91122**
Zeng, Qi *see* **Brandt, Michael W. et al.**
Zhang, Lu[1] *see* **Brandt, Michael W. et al.**
Zhu, Wu-Jia *see* **Li, Bin et al.**
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91A28 Signaling, communication

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Moser, Scott *see* **Miller, John H.**
Robson, Arthur J. *see* **Grégoire, Philippe, 2004j:91063**
Sahi, Siddhartha *see* **Dubey, Pradeep, 2004e:91035**
Schummer, James *see* **Eső, Péter, 2004m:91044**
Winer, Russell S. *see* **Feldman, David**
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Heidhues, Paul (*with* Lagerlöf, Johan) Hiding information in electoral competition. (English summary) **2004a:91042**
van der Hoek, Wiebe *see* **van Ditmarsch, Hans P. et al., 2004k:03035**
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Kahneman, Michael *see* **Ben-Porath, Elchanan**
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Komarova, N. L. (*with* Niyogi, Partha) Optimizing the mutual intelligibility of linguistic agents in a shared world. (English summary) **2004m:68247**
Kooi, Barteld P. *see* **van Ditmarsch, Hans P. et al., 2004k:03035**
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Martimort, David *see* **Faure-Grimaud, Antoine et al.**
Matsushima, Hitoshi Repeated games with private monitoring: two players. (English summary) **2004m:91036**
Matthews, Steven A. *see* **Mailath, George J. et al., 2004g:91021**
Merhav, Neri *see* **Somekh-Baruch, Anelia, 2004d:94030**
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Prada-Sánchez, José Manuel *see* **Casas-Méndez, Balbina, 2004i:91018**
Razin, Ronny Signaling and election motivations in a voting model with common values and responsive candidates. (English summary) **2004e:91046**
Renault, Jérôme (*with* Tomala, Tristan) Learning the state of nature in repeated games with incomplete information and signals. (English summary) **2004k:91045**
van Rooy, Robert Quality and quantity of information exchange. (English summary) **2004i:68207**
Sanchirico, Chris *see* **Athey, Susan et al., 2004m:91034**
Savit, Robert *see* **Li, Yi[2]**
Schlag, Karl H. *see* **Hurkens, Sjaak**
Sefton, Martin *see* **Burton, Anthony**
Sekiguchi, Tadashi *see* **Mailath, George J. et al., 2004g:91021**
Somekh-Baruch, Anelia (*with* Merhav, Neri) On the error exponent and capacity games of private watermarking systems. (English summary) **2004d:94030**
Squintani, Francesco *see* **Doraszelski, Ulrich et al.**
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Urbano, Amparo (*with* Vila, Jose E.) Computationally restricted unmediated talk under incomplete information. (English summary)
Urbano, Ana M. (*with* Vila, Jose E.) Unmediated communication in repeated games with imperfect monitoring. (English summary) **2004i:91015**
Vila, Jose E. *see* **Urbano, Ana M., 2004i:91015** *and* **Urbano, Amparo**
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91A30 Utility theory for games [see also 91B16]

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Shin, Hyun Song *see* **Mukerji, Sujoy**
Tumer, Kagan *see* **Wolpert, David H.**, (**2004d:91002**)
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Items with secondary classifications in 91A30

Broihanne, Marie-Hélène *see* **Koessler, Frédéric et al.**, **2004i:91045**
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91A35 Decision theory for games [see also 62Cxx, 91B06, 90B50]

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Ma, Chenghu *see* **Luo, Xiao**, **2004g:91033**
Mariotti, Thomas Hierarchies of compact beliefs and rationalizable behavior. (English summary) **2004b:91033**
Palfrey, Thomas R. *see* **Jackson, Matthew O.**, **2004d:91045**
Rabinowicz, Wlodek Remarks on the absentminded driver. (English summary) **2004d:91046**
Schmeidler, David *see* **Gilboa, Itzhak**, **2004b:91032** *and* **2004d:91044**
Stenull, Olaf *see* **Hauert, Christoph**
Tsetlin, Ilia *see* **Gaba, Anil et al.**
Winkler, Robert L. *see* **Gaba, Anil et al.**

Items with secondary classifications in 91A35

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Fishburn, Peter C. *see* **Bell, David E.**, **2004e:91040**
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Gomolińska, Anna Derivability of rules from rule complexes. (English summary) **2004c:03035**
Goodrich, Michael A. *see* **Stirling, Wynn C. et al.**, (**2004h:68003**)
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Kolev, Emil On nonadaptive search problem. (English summary) **2004j:91066**
Kosters, Walter A. *see* **Hoogeboom, Hendrik Jan**, **2004k:03022**
Kryazhimskii, Arkadii V. *see* **Klaassen, Ger et al.**, (**2004d:91002**)
Larsen, Henrik Legind Efficient andness-directed importance weighted averaging operators. (English summary) **2004k:68159**
Lehner, Paul *see* **Vane, Russell**, (**2004h:68003**)
Lior, D. U. *see* **Brimberg, Jack et al.**
Lugosi, Gábor *see* **Cesa-Bianchi, Nicolò**, (**2004j:68005**)
Mesiar, Radko *see* **Saminger, Susanne et al.**, **2004b:68153**
Minullin, Yaroslav *see* **Klaassen, Ger et al.**, (**2004d:91002**)
Mordelová, J. *see* **Kolesárová, A. et al.**, **2004b:68151**
Muel, E. *see* **Kolesárová, A. et al.**, **2004b:68151**
Mukerji, Sujoy (*with* Shin, Hyun Song) Equilibrium departures from common knowledge in games with non-additive expected utility. (English summary)
Nikonov, Oleg *see* **Klaassen, Ger et al.**, (**2004d:91002**)
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Saminger, Susanne (*with* Mesiar, Radko; Bodenhofer, Ulrich) Domination of aggregation operators and preservation of transitivity. (English summary) **2004b:68153**
Sandroni, Alvaro (*with* Smorodinsky, Rann; Vohra, Rakesh V.) Calibration with many checking rules. (English summary) **2004a:62025**
Shin, Hyun Song *see* **Mukerji, Sujoy**
Smorodinsky, Rann *see* **Sandroni, Alvaro et al.**, **2004a:62025**
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Tohmé, Fernando Negotiation and defeasible decision making. (English summary) **2004f:91046**
Vane, Russell (*with* Lehner, Paul) Using hypergames to increase planned payoff and reduce risk. (English summary) (*see* **2004h:68003**)
Vohra, Rakesh V. *see* **Sandroni, Alvaro et al.**, **2004a:62025**

91A40 Game-theoretic models

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Garratt, Rod *see* **Bech, Morten L.**, **2004f:91040**
Hu, Cheng-Cheng The characterization of stable points of trajectories and transfer sequences. (English summary) **2004g:91034**
Hui, Pak-ming *see* **Lee, Kuen et al.**
Johnson, Neil F. *see* **Lee, Kuen et al.**
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Kozell, Olesya S. *see* **Gao, Hong Wei²**, (**2004d:91002**)
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Minullin, Yaroslav *see* **Klaassen, Ger et al.**, (**2004d:91002**)
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Ng, Man-Chung On the duality between prior beliefs and trading demands. (English summary) **2004d:91047**
Nikonov, Oleg *see* **Klaassen, Ger et al.**, (**2004d:91002**)
Okuguchi, Koji (*with* Szidarovszky, Ferenc) Existence of Nash-Cournot equilibrium in oligopoly games with pollution treatment cost-sharing. (English summary) **2004k:91058**
Pfleiderer, Paul *see* **Admati, Anat R.**, **2004m:91045**
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Szidarovszky, Ferenc *see* **Okuguchi, Koji**, **2004k:91058**
Wauthy, Xavier J. *see* **Boccard, Nicolas**, **2004i:91040**
Westermark, Andreas Bargaining, binding contracts, and competitive wages. (English summary) **2004d:91048**
Yokoo, Makoto *see* **Matsubara, Shigeo**, **2004a:91026**
Zhao, Jichao The general solution of (m, n)-person leader-follower games. (English summary) (*see* **2004d:91002**)
Zhou, Yunhong *see* **Sandholm, Tuomas**, **2004a:91027**

Items with secondary classifications in 91A40

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Benigno, Pierpaolo *see* **Benigno, Gianluca**, **2004j:91088**
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Braynov, Sviatoslav (*with* Sandholm, Tuomas) Contracting with uncertain level of trust. (English summary) **2004b:91119**
Bulavskiĭ, V. A. *see* **Isac, George et al.**, **2004f:90006**
Chen, Zhonghui *see* **Zhang, Dexian et al.**, (**2004d:91002**)
Codognato, Giulio (*with* Ghosal, Sayantan) Self-fulfilling mechanisms and rational expectations in large markets. (English summary) **2004f:91061**
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— *see also* **Bottazzi, Jean-Marc**, **2004f:91060**
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Durakovich, Neboisha *see* **Vasin, A. A. et al.**, **2004m:91166**
Efstathiou, Janet *see* **Wang, Hong Wei[1] et al.**
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Gale, David *see* **Alkan, Ahmet**, **2004e:91014**
Ghosal, Sayantan *see* **Codognato, Giulio**, **2004f:91061**
Goenka, Aditya Informed trading and the 'leakage' of information. (English summary) **2004d:91082**
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Gong, Liutang (*with* Zou, Heng-Fu) A fiscal federalism approach to optimal taxation and intergovernmental transfers in a dynamic model. (English summary) **2004k:91147**
González-Arangüena, Enrique *see* **Gómez González, Daniel et al.**, **2004d:91195**
Guo, Min *see* **Wang, Hong Wei[1] et al.**
Hamers, Herbert *see* **van Velzen, Bas**, **2004c:91020**
Hinz, Juri A revenue-equivalence theorem for electricity auctions. (English summary) **2004m:91089**
Hosokawa, Yoshihisa *see* **Kameda, Hisao**, **2004h:68012**
Huang, Pu (*with* Scheller-Wolf, Alan; Sycara, Katia) Design of a multi-unit double auction e-market. (English summary) **2004b:91078**
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Iyengar, S. S. *see* **Kannan, Rajgopal et al.**, **2004b:90010**
Jiménez, Edward Quantum games: mixed strategy Nash's equilibrium represents minimum entropy. (English summary) **2004m:91038**
Kalashnikov, Vyacheslav Vital′evich *see* **Isac, George et al.**, **2004f:90006**
Kameda, Hisao (*with* Hosokawa, Yoshihisa) Effects of symmetry on paradoxes in non-cooperative distributed computing. (English summary) **2004h:68012**
Kannan, Rajgopal (*with* Sarangi, Sudipta; Ray, Sibabrata; Iyengar, S. S.) Minimal sensor integrity: measuring the vulnerability of sensor grids. (English summary) **2004b:90010**
Kilgour, D. Marc *see* **Avenhaus, Rudolf**, **2004j:90047**
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Leung, Kin Kwong *see* **Sung, Chi Wan**
Machover, Moshé *see* **Felsenthal, Dan S.**, **2004b:91066**
Manuel, Conrado *see* **Gómez González, Daniel et al.**, **2004d:91195**
McKelvey, Robert W. (*with* Sandal, Leif K.; Steinshamn, Stein I.) Regional fisheries management on the high seas: the hit-and-run interloper model. (English summary) **2004j:91203**
Melnikov, Valery V. *see* **Zakharov, Viktor**, **2004m:91146**
Mertens, Jean-François The limit-price mechanism. (English summary) **2004f:91068**
Navidi, Kh. *see* **Vasin, A. A.**, **2004e:91003**
Nentjes, A. *see* **Kryazhimskiĭ, Arkadiĭ V. et al.**, **2004b:91014**
Nguyen Thanh Binh Another classification of the class of quasi-games which become fairer with time. (English summary) **2004i:60053**
Owen, Guillermo *see* **Gómez González, Daniel et al.**, **2004d:91195**
Parikh, Rohit *see* **Pauly, Marc[2]**, **2004m:03110**
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Pita, Cristina (*with* Torregrosa, Ramón J.) The concavity axiom in bilateral monopoly. (English summary) **2004e:91057**
del Pozo, Mónica *see* **Gómez González, Daniel et al.**, **2004d:91195**
Puente, María Albina *see* **Freixas, Josep**, **2004c:91013**
Ray, Sibabrata *see* **Kannan, Rajgopal et al.**, **2004b:90010**
Rodgers, G. J. *see* **D'Hulst, R.**
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Sakaguchi, Minoru Multi-round card game with arbitration and random amount of bet. (English summary) **2004c:62170**
Saks, Michael *see* **Russell, Alexander C. et al.**, **2004a:68037**
Saley, Hadiza Moussa *see* **De Meyer, Bernard**, **2004b:91024**
Sandal, Leif K. *see* **McKelvey, Robert W. et al.**, **2004j:91203**
Sandholm, Tuomas *see* **Braynov, Sviatoslav**, **2004b:91119**
Sarangi, Sudipta *see* **Kannan, Rajgopal et al.**, **2004b:90010**
Scheller-Wolf, Alan *see* **Huang, Pu et al.**, **2004b:91078**
Shibaev, S. V. *see* **Kryazhimskiĭ, Arkadiĭ V. et al.**, **2004b:91014**
Shitovitz, Benyamin (*with* Spiegel, Menahem) Cournot-Nash and Lindahl equilibria in pure public "bad" economies. (English summary) **2004e:91087**
Spiegel, Menahem *see* **Shitovitz, Benyamin**, **2004e:91087**
Steinshamn, Stein I. *see* **McKelvey, Robert W. et al.**, **2004j:91203**
Sung, Chi Wan (*with* Leung, Kin Kwong) On the stability of distributed sequence adaptation for cellular asynchronous DS-CDMA systems. (English summary)
Sycara, Katia *see* **Huang, Pu et al.**, **2004b:91078**
Taras′ev, A. M. *see* **Kryazhimskiĭ, Arkadiĭ V. et al.**, **2004b:91014**
Tasnádi, Attila On Forchheimer's model of dominant firm price leadership. (English summary)
Tejada Cazorla, Juan *see* **Gómez González, Daniel et al.**, **2004d:91195**
Torregrosa, Ramón J. *see* **Pita, Cristina**, **2004e:91057**
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Wan Abdullah, Wan Ahmad Tajuddin Emergence of heterogeneity in an agent-based model. (English summary) **2004j:91110**
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91A43 Games involving graphs

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Shurman, Jerry *see* **Huddleston, Scott, 2004b:91046**
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91A44 Games involving topology or set theory

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91A46 Combinatorial games

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Matsumura, Toshihiro Stackelberg mixed duopoly with a foreign competitor. (English summary) **2004e:91037**
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Sakawa, Masatoshi *see* **Nishizaki, Ichiro et al., 2004i:90079**
Shiode, Shogo *see* **Osumi, Shigehiro, 2004f:90078**
Simaan, Marwan A. *see* **Liu, Yang^2, 2004j:91015**
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Sirakaya, Sibel *see* **Alemdar, Nedim M., 2004a:91016**
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Taale, Henk *see* **van Zuylen, Henk, (2004i:00010)**
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91Bxx Mathematical economics {For econometrics, see 62P20.}

91B02 Fundamental topics (basic mathematics, methodology; applicable to economics in general)

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91B06 Decision theory [see also 62Cxx, 90B50, 91A35]

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Thon, Dominique *see* **Aboudi, Ronny, 2004d:91067**
Yu, Y.-K. *see* **Bianconi, G. et al., 2004m:68267**
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91B12 Voting theory

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Ishai, Yuval *see* **Balogh, József et al., 2004h:68033**
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Krapivsky, Paul L. *see* **Ben-Naim, E. et al., 2004h:91107**
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Samet, Dov (*with* Schmeidler, David) Between liberalism and democracy. (English summary) **2004d:91071**
Sapir, Luba *see* **Berend, Daniel, 2004i:91047**
Schmeidler, David *see* **Samet, Dov, 2004d:91071**
Sen, Arunava *see* **Aswal, Navin et al., 2004i:91056**
Spakowski, Holger *see* **Rothe, Jörg et al., 2004g:68050**
Ştefănescu, Anton Double implementation of voting operators. (English summary) **2004m:91073**
Tseng, Yuh-Min *see* **Chien, Hung-Yu et al., 2004b:94057**
Versaevel, Bruno *see* **Billette de Villemeur, Etienne**
Vogel, Jörg *see* **Rothe, Jörg et al., 2004g:68050**
Voorneveld, Mark *see* **Quant, Marieke et al., 2004k:91070**
Westermark, Andreas Extremism, campaigning and ambiguity. (English summary) **2004m:91018**
Wooders, Myrna *see* **Kovalenkov, Alexander, 2004d:91022**

91B14 Social choice

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van den Brink, René *see* **Borm, Peter et al., 2004i:91057**
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Crémer, Jacques *see* **d'Aspremont, Claude et al., 2004k:91066**
Crown, Gary D. *see* **Cramer-Benjamin, Richard et al., 2004j:91080**
Devooght, Kurt *see* **Schokkaert, Erik**
Doyle, Jon *see* **McGeachie, Michael**
Ely, Jeffrey C. *see* **Chung, Kim-Sau, 2004d:91068**
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Items listed otherwise than by author

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Theory of social choice ★ Théorie du choix social: cinquantenaires. [Fiftieth anniversary of the theory of social choice]
Axiomatic theory of resource allocation—in honour of Louis Gevers ★ The axiomatic theory of resource allocation—in honour of Louis Gevers.
Festschrift:
Gevers, Louis ★ The axiomatic theory of resource allocation—in honour of Louis Gevers.
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Non-welfaristic issues in normative economics ★ Non-welfaristic issues in normative economics.

91B16 Utility theory

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Kühn, Christoph *see* **Kallsen, Jan**, **2004m:91082**

Lapied, André *see* **Chateauneuf, Alain et al.**, **2004c:91034**

Lemaire, Bertrand *see* **Le Menestrel, Marc**, **2004m:06002**

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Molho, Elena *see* **Guerraggio, Angelo**, **2004k:01040**

Moyes, Patrick *see* **Chakravarty, Satya R.**, **2004d:91178**

Nirenberg, Louis *see* **Ekeland, Ivar**, **2004m:58002**

Nitzan, Shmuel *see* **Baharad, Eyal**, **2004d:91054** *and* **Houy, Nicolas**, **2004m:91056**

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Patrone, Fioravante *see* **Norde, Henk et al.**, **2004m:49074**

Pesendorfer, Wolfgang *see* **Gul, Faruk**, **2004i:91050**
Peterson, Martin From consequentialism to utilitarianism. **2004m:91053**
Pfingsten, Andreas *see* **Breitmeyer, Carsten et al.**, **2004m:91131**
(Putnam, Hilary) *see* **Köllmann, Carsten**, **2004a:00006**
Riesgo, Laura *see* **Gómez-Limón, José A. et al.**, **2004g:91084**
Romaguera, Salvador (*with* Sanchis, Manuel) Applications of utility functions defined on quasi-metric spaces. (English summary) **2004g:91044**
Saari, Donald G. Unsettling aspects of voting theory. (English summary) **2004j:91077**
Sanchis, Manuel *see* **Romaguera, Salvador**, **2004g:91044**
Sandow, Sven *see* **Friedman, Craig**
Schneider, Martin *see* **Epstein, Larry G.**, **2004h:91092**
Sengupta, Kunal *see* **Bandyopadhyay, Taradas**, **2004m:91062**
Shananin, A. A. *see* **Tarasov, S. P.**, **2004g:91123**
de Sousa, Jorge Freire *see* **Cardoso, Domingos Moreira**, **2004g:91048**
Stapleton, Richard C. *see* **Franke, Günter et al.**, **2004j:91127**
Subrahmanyam, Marti G. *see* **Franke, Günter et al.**, **2004j:91127**
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Tarasov, S. P. (*with* Shananin, A. A.) On the smoothness of the utility function in the Afriat-Varian theorem. (Russian) **2004g:91123**
Tijs, Stef *see* **Norde, Henk et al.**, **2004m:49074**
Tsoukiàs, Alexis (*with* Vincke, Ph.) A generalization of interval orders. (English summary) **2004d:91058**
Tumer, Kagan *see* **Wolpert, David H.**, (**2004d:91002**)
Ueno, Takayuki *see* **Iwamoto, Seiichi et al.**, **2004i:90180**
Vincke, Ph. *see* **Tsoukiàs, Alexis**, **2004d:91058**
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Wachter, Jessica A. Risk aversion and allocation to long-term bonds. (English summary) **2004h:91067**
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— *see also* **Eichner, Thomas**, **2004d:91140**
Wang, Tan Conditional preferences and updating. (English summary) **2004b:91063**
Wolpert, David H. (*with* Tumer, Kagan) Beyond mechanism design. (English summary) (*see* **2004d:91002**)
Yeh, Chung-Hsing (*with* Deng, Hepu) A practical approach to fuzzy utilities comparison in fuzzy multicriteria analysis. (English summary)
Ziegelmeyer, Anthony *see* **Koessler, Frédéric et al.**, **2004i:91045**
Zuanon, Magali E. *see* **Bosi, Gianni**, **2004b:91058**

91B18 Public goods

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Beausoleil, Raymond *see* **Chen, Kay-Yut et al.**, **2004g:91054**
Candel-Sánchez, Francisco Dynamic provision of public goods. (English summary)
Chen, Kay-Yut (*with* Hogg, Tad; Beausoleil, Raymond) A quantum treatment of public goods economics. (English summary) **2004g:91054**
Conley, John P. (*with* Smith, Stefani Cheri) Finite decentralization in a Tiebout economy with crowding types. (English summary) **2004a:91048**
Crémer, Jacques *see* **d'Aspremont, Claude et al.**, **2004m:91079**
Ehlers, Lars Multiple public goods, lexicographic preferences, and single-plateaued preference rules. (English summary) **2004c:91039**
Gérard-Varet, Louis-André *see* **d'Aspremont, Claude et al.**, **2004m:91079**
Hellwig, Martin F. Public-good provision with many participants. (English summary) **2004e:91050**
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Lambert-Mogiliansky, Ariane (*with* Picard, Pierre) Regulation by negotiation: the private benefit bias. (English summary)
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Nicolò, Antonio *see* **Jackson, Matthew O.**, **2004m:91080**
Olszewski, Wojciech Coalition strategy-proof mechanisms for provision of excludable public goods. (English summary) **2004j:91086**
Penn, Elizabeth Maggie Institutions and sorting in a model of metropolitan fragmentation. (English summary)
Pérez Castrillo, J. David *see* **Mutuswami, Suresh et al.**
Picard, Pierre *see* **Lambert-Mogiliansky, Ariane**
Sandler, Todd *see* **Siqueira, Kevin**, **2004j:91087**
Siqueira, Kevin (*with* Sandler, Todd) Collective goods, common agency, and third-party intervention. (English summary) **2004j:91087**
Smith, Stefani Cheri *see* **Conley, John P.**, **2004a:91048**
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Vicary, Simon Factor endowments and the private provision of public goods. (English summary)
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Hofbauer, Josef *see* **Hauert, Christoph et al.**
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Shitovitz, Benyamin (*with* Spiegel, Menahem) Cournot-Nash and Lindahl equilibria in pure public "bad" economies. (English summary) **2004e:91087**
Sigmund, Karl *see* **Hauert, Christoph et al.**
Snyder, Christopher Mark *see* **Pitchford, Rohan**, **2004j:91104**
Spiegel, Menahem *see* **Shitovitz, Benyamin**, **2004e:91087**
Szabó, György[2] *see* **Hauert, Christoph**
Weber, Shlomo *see* **Haimanko, Ori et al.**, **2004m:91021**

91B24 Price theory and market structure

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Back, Kerry (*with* Baruch, Shmuel) Information in securities markets: Kyle meets Glosten and Milgrom. (English summary) **2004k:91076**
Baruch, Shmuel *see* **Back, Kerry**, **2004k:91076**
Benigno, Gianluca (*with* Benigno, Pierpaolo) Price stability in open economies. (English summary) **2004j:91088**
Benigno, Pierpaolo *see* **Benigno, Gianluca**, **2004j:91088**
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Clark, Stephen A. A tangent cone analysis of smooth preferences on a topological vector space. (English summary) **2004m:91081**
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Holyst, Janusz A. (*with* Wojciechowski, Winicjusz) The effect of Kapitza pendulum and price equilibrium. (English summary) **2004k:91077**
Ibarra-Valdez, Carlos *see* **Álvarez-Ramírez, J. et al.**
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Kallsen, Jan (*with* Kühn, Christoph) Pricing derivatives of American and game type in incomplete markets. (English summary) **2004m:91082**
Karagiannis, Giannis *see* **Kumbhakar, Subal C.**, **2004m:91083**
Kühn, Christoph *see* **Kallsen, Jan**, **2004m:91082**
Kumbhakar, Subal C. (*with* Karagiannis, Giannis) On the equivalence of two normalizations in estimating shadow cost functions. (English summary) **2004m:91083**
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Persson, Håkan *see* **Johansson, Börje**, **2004i:91067**
Pilar Socorro, M. Mergers and the importance of fitting well. (English summary)
Salanié, F. *see* **Mahenc, P.**
Schwarze, Reimund *see* **Meran, Georg**
Spector, David The noisy duopolist. (English summary) **2004g:91055**

Suárez, Rodolfo *see* **Álvarez-Ramírez, J. et al.**
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Tejada Cazorla, Juan *see* **Molina, Elisenda**, **2004j:91091**
Tse, Chung Yi Search frictions, market power, and long-run growth. (English summary) **2004m:91084**
Weichenrieder, Alfons J. Second degree price discrimination and natural monopoly. (English summary)
Wigniolle, Bertrand *see* **Michel, Philippe Gaston**, **2004f:91057**
Wojciechowski, Winicjusz *see* **Hołyst, Janusz A.**, **2004k:91077**
Wong, Kit Pong Export flexibility and currency hedging. (English summary) **2004f:91058**

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Al-Eideh, Basel M. (*with* Hasan, Merza H.) Growth price model under random environment: a stochastic analysis. (English summary)
Amadori, Anna Lisa Nonlinear integro-differential evolution problems arising in option pricing: a viscosity solutions approach. (English summary) **2004i:35153**
Athey, Susan (*with* Bagwell, Kyle; Sanchirico, Chris) Collusion and price rigidity. (English summary) **2004m:91034**
Bagwell, Kyle *see* **Athey, Susan et al.**, **2004m:91034**
Baran, Michał Quantile hedging on markets with proportional transaction costs. (English summary) **2004c:91045**
Beker, Pablo F. Are inefficient entrepreneurs driven out of the market? (English summary) **2004j:91094**
Blundo, Carlo (*with* De Bonis, Annalisa; Masucci, Barbara) Bounds and constructions for metering schemes. (English summary) **2004m:94034**
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Carfì, David S-linear operators in quantum mechanics and in economy. (English summary) **2004m:46083**
De Bonis, Annalisa *see* **Blundo, Carlo et al.**, **2004m:94034**
Delgado, Juan (*with* Moreno, Diego) Coalition-proof supply function equilibria in oligopoly. (English summary) **2004k:91082**
El-Khatib, Youssef (*with* Privault, Nicolas) Hedging in complete markets driven by normal martingales. (English summary) **2004e:91054**
— (*with* Privault, Nicolas) Computations of Greeks in a market with jumps via the Malliavin calculus. (English summary) **2004k:91105**
Esser, Angelika ★ Pricing in (in)complete markets. **2004m:91005**
Esteghamat, Kian A boundary crossing model of counterparty risk. (English summary) **2004m:91106**
Fujiwara, Tsukasa (*with* Miyahara, Yoshio) The minimal entropy martingale measures for geometric Lévy processes. (English summary) **2004h:94027**
Gáll, József (*with* Pap, Gyula[1]; van Zuijlen, Martien C. A.) Limiting connection between discrete and continuous time forward interest rate curve models. (English summary) **2004j:60048**
Greenwald, Amy R. *see* **Kephart, Jeffrey O.**, (**2004h:68003**)
Hasan, Merza H. *see* **Al-Eideh, Basel M.**
Hoogland, J. K. (*with* Neumann, C. D. D.; Vellekoop, M. H.) Symmetries in jump-diffusion models with applications in option pricing and credit risk. (English summary) **2004b:60204**
Inderst, Roman Contractual distortions in a market with frictions. (English summary)
Jørgensen, Steffen (*with* Zaccour, Georges) Channel coordination over time: incentive equilibria and credibility. (English summary) **2004a:91023**
Katsaris, Apostolos *see* **Brooks, Chris**
Kephart, Jeffrey O. (*with* Greenwald, Amy R.) Shopbot economics. (English summary) (*see* **2004h:68003**)
Khan, M. Ali (*with* Sun, Yeneng) Exact arbitrage, well-diversified portfolios and asset pricing in large markets. (English summary) **2004h:91059**
Khan, Mohammad S. *see* **Pathak, Hermant K.**, **2004a:49026**
Krishna, Kala (*with* Winston, Tor) If at first you don't succeed...: profits, prices, and market structure in a model of quality with unknowable consumer heterogeneity. (English summary) **2004d:91153**
Kunimoto, Takashi (*with* Serrano, Roberto) Bargaining and competition revisited. (English summary) **2004j:91182**
Lebedev, Alekseĭ Viktorovich Limits of random broken isoquants. (Russian. English and Russian summaries) **2004b:91056**
Li, Shi Yin *see* **Wang, Bao He**, **2004h:60075**
Liu, Dao Bai Mean-variance hedging for pricing European-type contingent claims with transaction costs. (English summary) **2004j:91140**
Mailath, George J. (*with* Sandroni, Alvaro) Market selection and asymmetric information. (English summary) **2004d:91087**
Majumdar, Mukul (*with* Rotar, Vladimir) Some general results on equilibrium prices in large random exchange economies. (English summary) **2004b:91124**
Masucci, Barbara *see* **Blundo, Carlo et al.**, **2004m:94034**
Michelacci, Claudio (*with* Suarez, Javier) Business creation and the stock market. (English summary) **2004m:91092**
Miyahara, Yoshio *see* **Fujiwara, Tsukasa**, **2004h:94027**
Moreno, Diego *see* **Delgado, Juan**, **2004k:91082**
Neumann, C. D. D. *see* **Hoogland, J. K. et al.**, **2004b:60204**
Ni, Shawn (*with* Raymon, Neil) Price uncertainty and consumer welfare in an intertemporal setting. (English summary) **2004k:91150**
Palczewski, Jan Arbitrage and pricing in a general model with flows. (English summary) **2004j:91149**
Pap, Gyula[1] *see* **Gáll, József et al.**, **2004j:60048**
Pathak, Hermant K. (*with* Khan, Mohammad S.) On D-KKM theorem and its applications. (English summary) **2004a:49026**
Platen, Eckhard A class of complete benchmark models with intensity-based jumps. (English summary) **2004j:91105**
Privault, Nicolas *see* **El-Khatib, Youssef**, **2004e:91054** *and* **2004k:91105**
Raymon, Neil *see* **Ni, Shawn**, **2004k:91150**
Rotar, Vladimir *see* **Majumdar, Mukul**, **2004b:91124**
Rysman, Marc Competition between networks: a study of the market for yellow pages. (English summary) **2004m:91155**
Sanchirico, Chris *see* **Athey, Susan et al.**, **2004m:91034**
Sandroni, Alvaro *see* **Mailath, George J.**, **2004d:91087**
Serrano, Roberto *see* **Kunimoto, Takashi**, **2004j:91182**
Solan, Eilon (*with* Yariv, Leeat) Games with espionage. (English summary) **2004k:91010**
Suarez, Javier *see* **Michelacci, Claudio**, **2004m:91092**
Sun, Yeneng *see* **Khan, M. Ali**, **2004h:91059**
Vellekoop, M. H. *see* **Hoogland, J. K. et al.**, **2004b:60204**
Wang, Bao He (*with* Li, Shi Yin) Application of doubly stochastic Poisson processes in credit risk intensity models. (Chinese. English and Chinese summaries) **2004h:60075**
Winston, Tor *see* **Krishna, Kala**, **2004d:91153**
Yariv, Leeat *see* **Solan, Eilon**, **2004k:91010**
Zaccour, Georges *see* **Jørgensen, Steffen**, **2004a:91023**
van Zuijlen, Martien C. A. *see* **Gáll, József et al.**, **2004j:60048**

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Lecture Notes in Economics and Mathematical Systems *see* **Esser, Angelika**, **2004m:91005**

91B26 Market models (auctions, bargaining, bidding, selling, etc.)

Abdulkadiroğlu, Atila (*with* Sönmez, Tayfun; Ünver, M. Utku) Room assignment-rent division: a market approach. (English summary)
Abrache, Jawad (*with* Crainic, Teodor Gabriel; Gendreau, Michel) Design issues for combinatorial auctions. (English summary) **2004k:91078**
Akcoglu, Karhan (*with* Aspnes, James; Dasgupta, Bhaskar[1]; Kao, Ming-Yang) Opportunity cost algorithms for combinatorial auctions. (English summary) **2004j:91092**
Aliprantis, Charalambos D. (*with* Monteiro, Paulo K.; Tourky, Rabee) Non-marketed options, non-existence of equilibria, and non-linear prices. (English summary) **2004k:91079**
Allen, Beth Incentives in market games with asymmetric information: the core. (English summary)
Aoyagi, Masaki Bid rotation and collusion in repeated auctions. (English summary) **2004i:91068**
Araújo, Tanya *see* **Vilela Mendes, Rui et al.**, **2004d:91093**
Arbatskaya, Maria The exclusion principle for symmetric multi-prize all-pay auctions with endogenous valuations. (English summary) **2004d:91076**
Archer, Aaron (*with* Papadimitriou, Christos H.; Talwar, Kunal; Tardos, Éva) An approximate truthful mechanism for combinatorial auctions with single parameter agents. (English summary) (*see* **2004a:68002**)
Aref, Hassan *see* **Pushkin, Dmitri O.**
Arozamena, Leandro (*with* Cantillon, Estelle) Investment incentives in procurement auctions. (English summary) **2004j:91093**
Asgharpour, Mohammad Jawad *see* **Ghoseiri, Keivan et al.**
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At, Christian (*with* Morand, Pierre-Henri) The sale of small firms: a multidimensional analysis. (English summary)
Ausubel, Lawrence M. (*with* Milgrom, Paul R.) Ascending auctions with package bidding. (English summary) **2004g:91056**
— (*with* Cramton, Peter) Vickrey auctions with reserve pricing. (English summary) **2004k:91080**
Bag, Parimal Kanti Unraveling in first-price auction. (English summary) **2004e:91052**
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Battigalli, Pierpaolo (*with* Siniscalchi, Marciano) Rationalizable bidding in first-price auctions. (English summary) **2004i:91069**
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Bikhchandani, Sushil (*with* Ostroy, Joseph M.) The package assignment model. (English summary) **2004a:91049**
Binmore, Ken (*with* Samuelson, Larry; Young, H. Peyton) Equilibrium selection in bargaining models. (English summary) **2004j:91095**
Birulin, Oleksii Inefficient ex-post equilibria in efficient auctions. (English summary) **2004g:91057**
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Blume, Andreas (*with* Heidhues, Paul) All quilibria of the Vickrey auction. (English summary)
Bottazzi, Jean-Marc (*with* De Meyer, Bernard) A market game for assets and taxed investors. (English summary) **2004f:91060**
Bouchaud, Jean-Philippe *see* **Giardina, Irene**, **2004a:91050**
Brocas, Isabelle Endogenous entry in auctions with negative externalities. (English summary) **2004h:91042**
Cabedo Semper, J. David (*with* Moya Clemente, Ismael) Value at risk calculation through ARCH factor methodology: proposal and comparative analysis. (English summary) **2004h:91043**
Cai, Hongbin Inefficient Markov perfect equilibria in multilateral bargaining. (English summary) **2004g:91058**
Calvó-Armengol, Antoni A decentralized market with trading links. (English summary) **2004d:91079**
Cantillon, Estelle *see* **Arozamena, Leandro**, **2004j:91093**

Cason, Timothy N. (*with* Friedman, Daniel) Buyer search and price dispersion: a laboratory study. (English summary) **2004g:91059**
Chae, Suchan (*with* Heidhues, Paul) A group bargaining solution. (English summary) **2004m:91085**
Chakrabarti, Bikas K. *see* **Chatterjee, Arnab et al.**
Challet, Damien (*with* Marsili, Matteo; Ottino, Gabriele) Shedding light on El Farol. (English summary)
Chang, Chia-Hua *see* **Kreng, V. B.**
Chatterjee, Arnab (*with* Chakrabarti, Bikas K.; Manna, Subhrangshu Sekhar) Pareto law in a kinetic model of market with random saving propensity. (English summary)
Chau, Hoi Fung (*with* Chow, F. K.; Ho, K. H.) Minority game with peer pressure. (English summary)
Che, Yeon-Koo *see* **Kim, Jinwoo, 2004j:91103**
Cho, Seok-ju (*with* Duggan, John R.) Uniqueness of stationary equilibria in a one-dimensional model of bargaining. (English summary) **2004i:91070**
Chow, F. K. *see* **Chau, Hoi Fung et al.**
Cincotti, Silvano (*with* Focardi, Sergio M.; Marchesi, Michele; Raberto, Marco) Who wins? Study of long-run trader survival in an artificial stock market. (English summary)
Codognato, Giulio (*with* Ghosal, Sayantan) Self-fulfilling mechanisms and rational expectations in large markets. (English summary) **2004f:91061**
Cohen, Robin *see* **Tran, Thomas, 2004b:91082**
Cole, Harold Linh (*with* Mailath, George J.; Postlewaite, Andrew) Efficient non-contractible investments in finite economies. (English summary) **2004g:91060**
Coles, Melvyn G. (*with* Eeckhout, Jan) Indeterminacy and directed search. (English summary) **2004e:91053**
Conforti, Domenico *see* **Beraldi, Patrizia et al.**
Coolen, A. C. C. *see* **Galla, Tobias et al., 2004j:91099**
Crainic, Teodor Gabriel *see* **Abrache, Jawad et al., 2004k:91078**
Cramton, Peter *see* **Ausubel, Lawrence M., 2004k:91080**
Crowley, Steve (*with* Sade, Orly) Does the option to cancel an order in a double auction market matter? (English summary)
Cunyat, Antoni The optimal degree of commitment in a negotiation with a deadline. (English summary) **2004j:91096**
van Damme, Eric (*with* Furth, Dave) Game theory and the market. **2004i:91071**
Dasgupta, Bhaskar[1] *see* **Akcoglu, Karhan et al., 2004j:91092**
De Cesare, Luigi (*with* Di Liddo, Andrea; Ragni, Stefania) On the shape of optimal price and advertising strategies arising in innovation diffusion. (English summary) **2004k:91081**
Delgado, Juan (*with* Moreno, Diego) Coalition-proof supply function equilibria in oligopoly. (English summary) **2004k:91082**
De Meyer, Bernard *see* **Bottazzi, Jean-Marc, 2004f:91060**
Di Liddo, Andrea *see* **De Cesare, Luigi et al., 2004k:91081**
Dong, Ming *see* **Guo, Hong[4] et al.**
Doorman, Gerard (*with* Nygreen, Bjørn) Market price calculations in restructured electricity markets. (English summary)
Dubey, Pradeep (*with* Geanakoplos, John; Shubik, Martin) Is gold an efficient store of value? (English summary) **2004h:91044**
Duggan, John R. *see* **Cho, Seok-ju, 2004i:91070**
Eeckhout, Jan *see* **Coles, Melvyn G., 2004e:91053**
El-Khatib, Youssef (*with* Privault, Nicolas) Hedging in complete markets driven by normal martingales. (English summary) **2004e:91054**
Engle-Warnick, Jim Inferring strategies from observed actions: a nonparametric, binary tree classification approach. (English summary) **2004f:91062**
Esö, Péter (*with* White, Lucy) Precautionary bidding in auctions. (English summary) **2004j:91097**
Ettinger, David Efficiency in auctions with crossholdings. (English summary) **2004d:91080**
Evans, Robert A. A one-period version of Rubinstein's bargaining game. (English summary)
Fafchamps, Marcel Spontaneous market emergence. (English summary)
Fang, Hanming (*with* Parreiras, Sérgio O.) On the failure of the linkage principle with financially constrained bidders. (English summary) **2004d:91081**
Fang, Shu-Cherng (*with* Nuttle, Henry L. W.; Wang, Dingwei) Fuzzy formulation of auctions and optimal sequencing for multiple auctions. (English summary) **2004m:91086**
Fanti, Luciano (*with* Manfredi, Piero) Population, unemployment and economic growth cycles: a further explanatory perspective. (English summary)
Farmer, J. Doyne *see* **Smith, David Eric et al., 2004j:91107**
Fekete, Sándor P. (*with* Skutella, Martin; Woeginger, Gerhard J.) The complexity of economic equilibria for house allocation markets. (English summary) **2004h:91045**
Fibich, Gadi (*with* Gavious, Arieh) Asymmetric first-price auctions—a perturbation approach. (English summary) **2004i:91072**
— (*with* Gavious, Arieh; Sela, Aner) Revenue equivalence in asymmetric auctions. (English summary) **2004m:91087**
Focardi, Sergio M. *see* **Cincotti, Silvano et al.**
Foellmi, Reto (*with* Zweimüller, Josef) Inequality, market power, and product diversity. (English summary)
Forges, Françoise The ex ante incentive compatible core of the assignment game. (English summary) **2004j:91098**
Friedman, Daniel *see* **Cason, Timothy N., 2004g:91059**
Furth, Dave *see* **van Damme, Eric, 2004i:91071**
Furusawa, Taiji (*with* Wen, Quan[1]) Bargaining with stochastic disagreement payoffs. (English summary)
Gaffney, J. M. (*with* Pearce, Charles E. M.) Memory, market stability and the nonlinear cobweb theorem. (English summary) **2004m:91088**
Galla, Tobias (*with* Coolen, A. C. C.; Sherrington, David) Dynamics of a spherical minority game. (English summary) **2004j:91099**
— *see also* **Sherrington, David**
Gaudet, Gérard (*with* Long, Ngo Van) Recycling redux: a Nash-Cournot approach. (English summary) **2004i:91073**
Gavious, Arieh *see* **Fibich, Gadi et al., 2004i:91072** *and* **2004m:91087**
Geanakoplos, John *see* **Dubey, Pradeep et al., 2004h:91044**
Gendreau, Michel *see* **Abrache, Jawad et al., 2004k:91078**
Ghosal, Sayantan (*with* Morelli, Massimo) Retrading in market games. (English summary) **2004j:91100**
— *see also* **Codognato, Giulio, 2004f:91061**
Ghoseiri, Keivan (*with* Szidarovszky, Ferenc; Asgharpour, Mohammad Jawad) A two-person conflict model in train scheduling. (English summary)
Giardina, Irene (*with* Bouchaud, Jean-Philippe) Bubbles, crashes and intermittency in agent based market models. (English summary) **2004a:91050**
— (*with* Bouchaud, Jean-Philippe) Volatility clustering in agent based market models. (English summary)
Gillemot, László *see* **Smith, David Eric et al., 2004j:91107**
Giraud, Gaël Strategic market games: an introduction. (English summary) **2004f:91063**
— (*with* Stahn, Hubert) Efficiency and imperfect competition with incomplete markets. (English summary) **2004f:91064**
— (*with* Weyers, Sonia) Strategic market games with a finite horizon and incomplete markets. (English summary) **2004k:91083**
Goenka, Aditya Informed trading and the 'leakage' of information. (English summary) **2004d:91082**
Goeree, Jacob K. Bidding for the future: signaling in auctions with an aftermarket. (English summary) **2004d:91083**
Goldberg, Andrew V. (*with* Hartline, Jason D.) Competitiveness via consensus. (English summary) (*see* **2004a:68002**)
Goyal, Sanjeev (*with* Joshi, Sumit) Networks of collaboration in oligopoly. (English summary) **2004j:91101**
— (*with* Joshi, Sumit) Erratum to: "Networks of collaboration in oligopoly" [Games Econom. Behav. **43** (2003), no. 1, 57–85].
Guo, Hong[4] (*with* Guo, Ya Jun; Dong, Ming) Optimal bidding strategy of a power company in a competitive market. (Chinese. English and Chinese summaries)
Guo, Ya Jun *see* **Guo, Hong[4] et al.**
Gutierrez, Genaro *see* **Paul, Anand, 2004i:91077**
Haile, Philip A. Auctions with private uncertainty and resale opportunities. (English summary) **2004a:91051**
Harstad, Ronald M. *see* **Mares, Vlad**
Hartline, Jason D. *see* **Goldberg, Andrew V., (2004a:68002)**
Heidhues, Paul *see* **Chae, Suchan, 2004m:91085** *and* **Blume, Andreas**
Hinz, Juri An equilibrium model for electricity auctions. (English summary)
— Optimal bid strategies for electricity auctions. (English summary) **2004a:91052**
— A revenue-equivalence theorem for electricity auctions. (English summary) **2004m:91089**
Hirayama, Katsutoshi *see* **Walsh, William E. et al., 2004a:91053**
Ho, K. H. *see* **Chau, Hoi Fung et al.**
Holzman, Ron (*with* Monderer, Dov) Characterization of ex post equilibrium in the VCG combinatorial auctions. (English summary) **2004k:91085**
— (*with* Kfir-Dahav, Noa; Monderer, Dov; Tennenholtz, Moshe) Bundling equilibrium in combinatorial auctions. (English summary) **2004k:91084**
Hong, Han (*with* Shum, Matthew) Rates of information aggregation in common value auctions. (English summary) **2004k:91086**
Hopenhayn, Hugo A. *see* **Skrzypacz, Andrzej, 2004k:91090a** *and* **2004k:91090b**
Huang, Pu (*with* Scheller-Wolf, Alan; Sycara, Katia) Design of a multi-unit double auction e-market. (English summary) **2004b:91078**
Huang, Suzhou *see* **Zenkevich, N. A., (2004d:91002)**
Imkeller, Peter Malliavin's calculus in insider models: additional utility and free lunches. (English summary) **2004b:91079**
Inderst, Roman Alternating-offer bargaining over menus under incomplete information. (English summary) **2004c:91040**
Jain, Neelam (*with* Jeitschko, Thomas D.; Mirman, Leonard J.) Financial intermediation and entry-deterrence. (English summary) **2004h:91046**
Jarque, Xavier (*with* Ponsati-Obiols, Clara; Sákovics, József) Mediation: incomplete information bargaining with filtered communication. (English summary) **2004f:91065**
Jeitschko, Thomas D. *see* **Jain, Neelam et al., 2004h:91046**
Jofre-Bonet, Mireia (*with* Pesendorfer, Martin) Estimation of a dynamic auction game. (English summary) **2004c:91055**
Joshi, Sumit *see* **Goyal, Sanjeev, 2004j:91101**
Ju, Biung-Ghi Continuous selections from the Pareto correspondence and non-manipulability in exchange economies. (English summary) **2004m:91090**
Kalandrakis, Anastassios A three-player dynamic majoritarian bargaining game. (English summary) **2004m:91091**
Kao, Ming-Yang (*with* Nolte, Andreas; Tate, Stephen R.) The risk profile problem for stock portfolio optimization. (English summary) **2004j:91102**
— *see also* **Akcoglu, Karhan et al., 2004j:91092**
Kessler, Anke S. (*with* Lülfesmann, Christoph) Bilateral bargaining, unverifiable quality, and options to return. (English summary)
Kfir-Dahav, Noa *see* **Holzman, Ron et al., 2004k:91084**
Kim, Jinwoo (*with* Che, Yeon-Koo) Asymmetric information about rivals' types in standard auctions. (English summary) **2004j:91103**
Kirchkamp, Oliver (*with* Moldovanu, Benny) An experimental analysis of auctions with interdependent valuations. (English summary)
Klonner, Stefan Rotating savings and credit associations when participants are risk averse. (English summary) **2004d:91084**
Köbberling, Veronika (*with* Peters, Hans) The effect of decision weights in bargaining problems. (English summary) **2004d:91085**
Koehler, Gary J. *see* **Xia, Mu et al., 2004k:91092**
Koppius, Otto R. *see* **Teich, Jeffrey E. et al.**
Koutsougeras, Leonidas C. Convergence to no arbitrage equilibria in market games. (English summary) **2004f:91066**
— (*with* Papadopoulos, Konstantinos G.) Arbitrage and equilibrium in strategic security markets. (English summary) **2004k:91087**
Kreng, V. B. (*with* Chang, Chia-Hua) Bayesian network based multiagent system—application in e-marketplace. (English summary)
Krishna, Vijay Asymmetric English auctions. (English summary) **2004g:91061**
Krishnamurthy, Supriya *see* **Smith, David Eric et al., 2004j:91107**

Kruk, Łukasz Functional limit theorems for a simple auction. (English summary) **2004i:91074**
Kutschinski, Erich (*with* Uthmann, Thomas; Polani, Daniel) Learning competitive pricing strategies by multi-agent reinforcement learning. (English summary)
Lebrun, Bernard (*with* Tremblay, Marie-Christine) Multiunit pay-your-bid auction with one-dimensional multiunit demands. (English summary) **2004d:91086**
León, Jorge A. (*with* Navarro Cruz, Reyla; Nualart, David) An anticipating calculus approach to the utility maximization of an insider. (English summary) **2004b:91080**
Li, Yi[2] *see* **Savit, Robert et al.**, (**2004j:00027**)
Lin, Chin-Tsai (*with* Wu, Cheng-Ru) Batch process and transfer decisions in foreign market: a real options model. (English summary) **2004c:91041**
Liu, Xiao Hua[2] The Woods theorem is true. (Chinese. English and Chinese summaries)
Long, Ngo Van *see* **Gaudet, Gérard**, **2004i:91073**
Long, Yong Hong[3] A multiunit generalization of a first price auction. (English summary)
— Model of multi-unit discriminative auctions. (English and Chinese summaries) **2004i:91075**
Louçã, Francisco *see* **Vilela Mendes, Rui et al.**, **2004d:91093**
Luckock, Hugh A steady-state model of the continuous double auction. (English summary) **2004h:91047**
Lülfesmann, Christoph Incomplete contracts. Non-contractible quality, and renegotiation. (English summary)
— *see also* **Kessler, Anke S.**
Luo, Xian Jue *see* **Zhang, Yu Bo et al.**
Mailath, George J. (*with* Sandroni, Alvaro) Market selection and asymmetric information. (English summary) **2004d:91087**
— *see also* **Cole, Harold Linh et al.**, **2004g:91060**
Manfredi, Piero *see* **Fanti, Luciano**
Manna, Subhrangshu Sekhar *see* **Chatterjee, Arnab et al.**
Manuca, Radu *see* **Savit, Robert et al.**, (**2004j:00027**)
Marchesi, Michele *see* **Cincotti, Silvano et al.**
Marechal, François (*with* Morand, Pierre-Henri) Pre vs. post-award subcontracting plans in procurement bidding. (English summary)
Mares, Vlad (*with* Harstad, Ronald M.) Private information revelation in common-value auctions. (English summary)
Margolis, Michael (*with* Shogren, Jason F.) Implementing the efficient auction: initial results from the lab. (English summary)
Marsili, Matteo Scale invariance and criticality in financial markets. (English summary) **2004k:91088**
— *see also* **Challet, Damien et al.**
Martimort, David (*with* Stole, Lars) Contractual externalities and common agency equilibria. (English summary) **2004f:91067**
Martinelli, César (*with* Parker, Susan W.) Should transfers to poor families be conditional on school attendance? A household bargaining perspective. (English summary) **2004d:91088**
Masuda, Takeshi (*with* Muto, Shigeo) Farsighted stability in duopoly markets with product differentiation. (English summary) (*see* **2004d:91002**)
Matsubara, Shigeo *see* **Yokoo, Makoto et al.**, **2004i:91081**
Mertens, Jean-François The limit-price mechanism. (English summary) **2004f:91068**
Michelacci, Claudio (*with* Suarez, Javier) Business creation and the stock market. (English summary) **2004m:91092**
Mikoucheva, Anna (*with* Sonin, Konstantin) Information revelation and efficiency in auctions. (English summary)
Milgrom, Paul R. *see* **Ausubel, Lawrence M.**, **2004g:91056**
Mirman, Leonard J. *see* **Jain, Neelam et al.**, **2004h:91046**
Moldovanu, Benny *see* **Kirchkamp, Oliver**
Momi, Takeshi Excess demand functions with incomplete markets—a global result. (English summary) **2004e:91056**
Monderer, Dov *see* **Holzman, Ron et al.**, **2004k:91084** *and* **2004k:91085**
Monteiro, Paulo K. *see* **Aliprantis, Charalambos D. et al.**, **2004k:91079**
Morand, Pierre-Henri (*with* Thomas, Lionel) On non-responsiveness in adverse selection models with common value. (English summary)
— *see also* **Marechal, François** *and* **At, Christian**
Morelli, Massimo *see* **Ghosal, Sayantan**, **2004j:91100**
Moreno, Diego *see* **Delgado, Juan**, **2004k:91082**
Moya Clemente, Ismael *see* **Cabedo Semper, J. David**, **2004h:91043**
Muto, Shigeo *see* **Masuda, Takeshi**, (**2004d:91002**)
Naeve-Steinweg, E. The averaging mechanism. (English summary) **2004i:91076**
Nakai, Teruhisa A market competition game with sequential pricings. (English summary)
— Bargaining game with asymmetric information about a bargaining power. (English summary)
Navarro Cruz, Reyla *see* **León, Jorge A. et al.**, **2004b:91080**
Nolte, Andreas *see* **Kao, Ming-Yang et al.**, **2004j:91102**
Nualart, David *see* **León, Jorge A. et al.**, **2004b:91080**
Nuttle, Henry L. W. *see* **Fang, Shu-Cherng et al.**, **2004m:91086**
Nygreen, Bjørn *see* **Doorman, Gerard**
Ostroy, Joseph M. *see* **Bikhchandani, Sushil**, **2004a:91049**
Ottino, Gabriele *see* **Challet, Damien et al.**
Papadimitriou, Christos H. *see* **Archer, Aaron et al.**, (**2004a:68002**)
Papadopoulos, Konstantinos G. *see* **Koutsougeras, Leonidas C.**, **2004k:91087**
Pápai, Szilvia Strategyproof exchange of indivisible goods. (English summary) **2004g:91062**
Parker, Susan W. *see* **Martinelli, César**, **2004d:91088**
Parreiras, Sérgio O. *see* **Fang, Hanming**, **2004d:91081**
Paul, Anand (*with* Gutierrez, Genaro) Mean sample spacings, sample size and variability in an auction-theoretic framework. (English summary) **2004i:91077**
Pearce, Charles E. M. *see* **Gaffney, J. M.**, **2004m:91088**
Peck, James Large market games with demand uncertainty. (English summary) **2004f:91069**
Pesendorfer, Martin *see* **Jofre-Bonet, Mireia**, **2004e:91055**
Pesendorfer, Wolfgang (*with* Wolinsky, Asher) Second opinions and price competition: inefficiency in the market for expert advice. (English summary) **2004c:91042**
Peters, Hans *see* **Köbberling, Veronika**, **2004d:91085**
Peters, Michael Hugh Negotiation and take it or leave it in common agency. (English summary) **2004d:91089**
— Pure strategy and no-externalities with multiple agents. (English summary)
Phelan, Christopher On the irrelevance of the maturity structure of government debt without commitment. (English summary) **2004i:91078**
Pigliaru, Francesco Detecting technological catch-up in economic convergence. (English summary)
Pita, Cristina (*with* Torregrosa, Ramón J.) The concavity axiom in bilateral monopoly. (English summary) **2004e:91057**
Pitchford, Rohan (*with* Snyder, Christopher Mark) A solution to the hold-up problem involving gradual investment. (English summary) **2004j:91104**
Platen, Eckhard A class of complete benchmark models with intensity-based jumps. (English summary) **2004j:91105**
Polani, Daniel *see* **Kutschinski, Erich et al.**
Ponsati-Obiols, Clara *see* **Jarque, Xavier et al.**, **2004f:91065**
Porter, David[2] (*with* Rassenti, Stephen; Roopnarine, Anil; Smith, Vernon) Combinatorial auction design. (English summary) **2004f:91070**
Postlewaite, Andrew *see* **Cole, Harold Linh et al.**, **2004g:91060**
Poulsen, Anders U. On efficiency, tie-breaking rules and role assignment procedures in evolutionary bargaining. (English summary) **2004k:91089**
Privault, Nicolas *see* **El-Khatib, Youssef**, **2004e:91054**
Pushkin, Dmitri O. (*with* Aref, Hassan) Bank mergers as scale-free coagulation. (English summary)
Raberto, Marco *see* **Cincotti, Silvano et al.**
Radner, Roy Viscous demand. (English summary) **2004i:91079**
Ragni, Stefania *see* **De Cesare, Luigi et al.**, **2004k:91081**
Ramey, Garey (*with* Watson, Joel) Bilateral trade and opportunism in a matching market. (English summary)
Rassenti, Stephen *see* **Porter, David**[2] **et al.**, **2004f:91070**
Rawal, S. (*with* Rodgers, G. J.) Modelling inflation as a random process. (English summary)
Riolo, Rick *see* **Savit, Robert et al.**, (**2004j:00027**)
Rob, Rafael (*with* Vettas, Nikolaos) Foreign direct investment and exports with growing demand. (English summary)
Rodgers, G. J. *see* **Rawal, S.**
Roopnarine, Anil *see* **Porter, David**[2] **et al.**, **2004f:91070**
Rosenthal, Robert W. *see* **Szentes, Balázs**, **2004d:91092** *and* **2004j:91108**
Sabourian, Hamid Bargaining and markets: complexity and the competitive outcome. (English summary)
Sade, Orly *see* **Crowley, Steve**
Safra, Zvi (*with* Samet, Dov) An ordinal solution to bargaining problems with many players. (English summary) **2004i:91080**
Sákovics, József *see* **Jarque, Xavier et al.**, **2004f:91065**
Sakurai, Yuko *see* **Yokoo, Makoto et al.**, **2004i:91081**
Samet, Dov *see* **Safra, Zvi**, **2004i:91080**
Samuelson, Larry *see* **Binmore, Ken et al.**, **2004j:91095**
Sandholm, Tuomas (*with* Suri, Subhash) BOB: improved winner determination in combinatorial auctions and generalizations. (English summary) **2004b:91081**
Sandroni, Alvaro Speculative trade, asset prices and investment levels. (English summary)
— *see also* **Mailath, George J.**, **2004d:91087**
Savit, Robert (*with* Manuca, Radu; Li, Yi[2]; Riolo, Rick) The dynamics of minority competition. (*see* **2004j:00027**)
Schaden, Martin Quantum finance. (English summary) **2004d:91090**
Scheller-Wolf, Alan *see* **Huang, Pu et al.**, **2004b:91078**
Schmitz, Patrick W. On second-price auctions and imperfect competition. (English summary) **2004g:91063**
Sela, Aner *see* **Fibich, Gadi et al.**, **2004m:91087**
Sherrington, David (*with* Galla, Tobias) The minority game: effects of strategy correlations and timing of adaptation. (English summary)
— *see also* **Galla, Tobias et al.**, **2004j:91099**
Shevchenko, Andrei Middlemen. (English summary) **2004j:91106**
Shogren, Jason F. *see* **Margolis, Michael**
Shubik, Martin *see* **Dubey, Pradeep et al.**, **2004h:91044**
Shum, Matthew *see* **Hong, Han**, **2004k:91086**
Siniscalchi, Marciano *see* **Battigalli, Pierpaolo**, **2004i:91069**
Skrzypacz, Andrzej (*with* Hopenhayn, Hugo A.) Tacit collusion in repeated auctions. (English summary) **2004k:91090a**
— (*with* Hopenhayn, Hugo A.) Corrigendum to: "Tacit collusion in repeated auctions" [J. Econom. Theory **114** (2004), no. 1, 153–169]. **2004k:91090b**
Skutella, Martin *see* **Fekete, Sándor P. et al.**, **2004h:91045**
Sładkowski, Jan Giffen paradoxes in quantum market games. (English summary) **2004k:91091**
Smith, David Eric (*with* Farmer, J. Doyne; Gillemot, László; Krishnamurthy, Supriya) Statistical theory of the continuous double auction. (English summary) **2004j:91107**
Smith, Vernon *see* **Porter, David**[2] **et al.**, **2004f:91070**
Snyder, Christopher Mark *see* **Pitchford, Rohan**, **2004j:91104**
Sonin, Konstantin *see* **Mikoucheva, Anna**
Sönmez, Tayfun *see* **Abdulkadiroğlu, Atila et al.**
Stahn, Hubert *see* **Giraud, Gaël**, **2004f:91064**
Stole, Lars *see* **Martimort, David**, **2004f:91067**
Strausz, Roland Deterministic mechanisms and the revelation principle. (English summary) **2004d:91091**
Suarez, Javier *see* **Michelacci, Claudio**, **2004m:91092**
Suri, Subhash *see* **Sandholm, Tuomas**, **2004b:91081**
Sycara, Katia *see* **Huang, Pu et al.**, **2004b:91078**
Szentes, Balázs (*with* Rosenthal, Robert W.) Three-object two-bidder simultaneous auctions: chopsticks and tetrahedra. (English summary) **2004d:91092**

— (*with* Rosenthal, Robert W.) Beyond chopsticks: symmetric equilibria in majority auction games. (English summary) **2004j:91108**
Szidarovszky, Ferenc *see* **Ghoseiri, Keivan et al.**
Talwar, Kunal *see* **Archer, Aaron et al.**, (**2004a:68002**)
Tardos, Éva *see* **Archer, Aaron et al.**, (**2004a:68002**)
Tate, Stephen R. *see* **Kao, Ming-Yang et al.**, **2004j:91102**
Teich, Jeffrey E. (*with* Wallenius, Hannele; Wallenius, Jyrki; Koppius, Otto R.) Emerging multiple issue e-auctions. (English summary)
Tennenholtz, Moshe *see* **Holzman, Ron et al.**, **2004k:91084**
Thomas, Lionel *see* **Morand, Pierre-Henri**
Tisljar, Rolf Optimal trading mechanisms for an informed seller. (English summary)
Torregrosa, Ramón J. *see* **Pita, Cristina**, **2004e:91057**
Tourky, Rabee *see* **Aliprantis, Charalambos D. et al.**, **2004k:91079**
Tran, Thomas (*with* Cohen, Robin) A reputation-oriented reinforcement learning strategy for agents in electronic marketplaces. (English summary) **2004b:91082**
Tremblay, Marie-Christine *see* **Lebrun, Bernard**, **2004d:91086**
Triki, Chefi *see* **Beraldi, Patrizia et al.**
Tuffin, Bruno Charging the internet without bandwidth reservation: an overview and bibliography of mathematical approaches. (English summary) **2004j:91109**
Ünver, M. Utku *see* **Abdulkadiroğlu, Atila et al.**
Uthmann, Thomas *see* **Kutschinski, Erich et al.**
Välimäki, Juuso *see* **Bergemann, Dirk**, **2004d:91077**
Vasin, A. A. Price competition in oligopoly: the conditions of convergence to and deviation from Walrasian equilibrium. (*see* **2004b:91002**)
Vettas, Nikolaos *see* **Rob, Rafael**
Vilela Mendes, Rui (*with* Araújo, Tanya; Louçã, Francisco) Reconstructing an economic space from a market metric. (English summary) **2004d:91093**
Violi, Antonio *see* **Beraldi, Patrizia et al.**
Vohra, Rakesh V. *see* **Baliga, Sandeep**, **2004f:91059**
Wallenius, Hannele *see* **Teich, Jeffrey E. et al.**
Wallenius, Jyrki *see* **Teich, Jeffrey E. et al.**
Walsh, William E. (*with* Yokoo, Makoto; Hirayama, Katsutoshi; Wellman, Michael P.) On market-inspired approaches to propositional satisfiability. (English summary) **2004a:91053**
Wan Abdullah, Wan Ahmad Tajuddin Emergence of heterogeneity in an agent-based model. (English summary) **2004j:91110**
Wang, Dingwei *see* **Fang, Shu-Cherng et al.**, **2004m:91086**
Wang, Qinan Coordinating independent buyers with integer-ratio time coordination and quantity discounts. (English summary)
Watson, Joel *see* **Ramey, Garey**
Weber, Matthias[1] An equilibrium model for the day-ahead trade in electricity markets. (English summary) **2004m:91093**
Weisman, Dennis L. A generalized pricing rule for multi-market Cournot oligopoly. (English summary)
Wellman, Michael P. *see* **Walsh, William E. et al.**, **2004a:91053**
Wen, Quan[1] *see* **Furusawa, Taiji**
Weyers, Sonia A strategic market game with limit prices. (English summary) **2004e:91058**
— *see also* **Giraud, Gaël**, **2004k:91083**
Whinston, Andrew B. *see* **Xia, Mu et al.**, **2004k:91092**
White, Lucy *see* **Eső, Péter**, **2004j:91097**
Woeginger, Gerhard J. *see* **Fekete, Sándor P. et al.**, **2004h:91045**
Wolinsky, Asher *see* **Pesendorfer, Wolfgang**, **2004c:91042**
Wu, Cheng-Ru *see* **Lin, Chin-Tsai**, **2004c:91041**
Xia, Mu (*with* Koehler, Gary J.; Whinston, Andrew B.) Pricing combinatorial auctions. (English summary) **2004k:91092**
Xue, Jun Yi *see* **Zhang, Yu Bo et al.**
Xue, Minggao An option pricing model under future revenue uncertainty. (English summary) **2004g:91064**
Yasutomi, Ayumu Itinerancy of money. (English summary)
Yildiz, Muhamet Bargaining over risky assets. (English summary) **2004g:91065**
— Bargaining without a common prior—an immediate agreement theorem. (English summary) **2004g:91066**
— Walrasian bargaining. (English summary) **2004j:91111**
Yokoo, Makoto (*with* Sakurai, Yuko; Matsubara, Shigeo) The effect of false-name bids in combinatorial auctions: new fraud in internet auctions. (English summary) **2004i:91081**
— *see also* **Walsh, William E. et al.**, **2004a:91053**
Yoshihara, Naoki Characterizations of bargaining solutions in production economies with unequal skills. (English summary) **2004d:91094**
Young, H. Peyton *see* **Binmore, Ken et al.**, **2004j:91095**
Zeng, Dao-Zhi An amendment to final-offer arbitration. (English summary) **2004d:91095**
Zenkevich, N. A. (*with* Huang, Suzhou) Comparison of two economic models for a business-to-business exchange. (English summary) (*see* **2004d:91002**)
Zhang, Yu Bo (*with* Luo, Xian Jue; Xue, Jun Yi) Bidding strategy analysis among electricity-generating units in a non-cooperative game with complete information. (Chinese. English and Chinese summaries)
Zhou, Nan[2] Bidding between incumbent and entrant. (English summary)
Zweimüller, Josef *see* **Foellmi, Reto**

Items with secondary classifications in 91B26

AitSahlia, Farid *see* **Chung, Kai Lai**, **2004i:60002**
Albano, Gian Luigi (*with* Jouneau-Sion, Frédéric) Bayesian inference in repeated English auctions. (English summary)
Aletti, Giacomo (*with* Capasso, Vincenzo) Profitability in a multiple strategy market.
Alkan, Ahmet (*with* Gale, David) Stable schedule matching under revealed preference. (English summary) **2004e:91014**
de Almeida, Caio Ibsen Rodrigues (*with* Duarte, Antonio Marcos, Jr.; Fernandes, Cristiano Augusto Coelho) A generalization of principal component analysis for non-observable term structures in emerging markets. (English summary)
Al-Najjar, Nabil I. (*with* Casadesus-Masanell, Ramon; Ozdenoren, Emre) Probabilistic representation of complexity. (English summary) **2004e:91038**
Amadori, Anna Lisa Nonlinear integro-differential evolution problems arising in option pricing: a viscosity solutions approach. (English summary) **2004i:35153**
Anderson, Christopher M. (*with* Plott, Charles R.; Shimomura, Ken-Ichi; Granat, Sander) Global instability in experimental general equilibrium: the Scarf example. (English summary) **2004m:91156**
Anderson, Edward J. (*with* Xu, Hui Fu) Necessary and sufficient conditions for optimal offers in electricity markets. (English summary) **2004a:90114**
Anderson, Simon P. (*with* Renault, Régis) Efficiency and surplus bounds in Cournot competition. (English summary) **2004i:91120**
Aoyama, Hideaki *see* **Souma, Wataru et al.**
Apartsin, Yevgenia (*with* Holzman, Ron) The core and the bargaining set in glove-market games. (English summary) **2004j:91020**
Araszkiewicz, Bolesław *see* **Polkowski, Lech**, **2004g:91014**
d'Aspremont, Claude (*with* Crémer, Jacques; Gérard-Varet, Louis-André) Correlation, independence, and Bayesian incentives. **2004k:91066**
Back, Kerry (*with* Baruch, Shmuel) Information in securities markets: Kyle meets Glosten and Milgrom. (English summary) **2004k:91076**
Baruch, Shmuel *see* **Back, Kerry**, **2004k:91076**
Beaudry, Paul (*with* González, Francisco M.) An equilibrium analysis of information aggregation and fluctuations in markets with discrete decisions. (English summary) **2004h:91079**
Bech, Morten L. (*with* Garratt, Rod) The intraday liquidity management game. (English summary) **2004f:91040**
Bergantiños, Gustavo *see* **Vidal-Puga, Juan J.**, **2004i:91030**
Bhattacharya, Anindya On the equal division core. (English summary) **2004k:91016**
Billot, Antoine (*with* Chateauneuf, Alain; Gilboa, Itzhak; Tallon, Jean-Marc) Bargaining over an uncertain outcome: the role of beliefs. (English summary) **2004a:91009**
Blum, Avrim (*with* Kumar, Vijay[3]; Rudra, Atri; Wu, Felix) Online learning in online auctions. (*see* **2004a:68002**)
(Boldrin, Michele) *see* **Peralta-Alva, Adrian**
Bondarenko, Oleg Estimation of risk-neutral densities using positive convolution approximation. (English summary) **2004g:62083**
Broihanne, Marie-Hélène *see* **Koessler, Frédéric et al.**, **2004i:91045**
Capasso, Vincenzo *see* **Aletti, Giacomo**
Casadesus-Masanell, Ramon *see* **Al-Najjar, Nabil I. et al.**, **2004e:91038**
Chang, Hung-Chi *see* **Yao, Jing-Shing et al.**, **2004h:90007**
Chateauneuf, Alain *see* **Billot, Antoine et al.**, **2004a:91009**
Chatterji, Shurojit (*with* Ghosal, Sayantan) Local coordination and market equilibria. (English summary) **2004j:91011**
Chen, Tzung-Her *see* **Horng, Gwoboa**
Cheng, Dai Zhan *see* **Ma, Jin**[2] **et al.**, **2004h:93136**
Chukwu, Ethelbert Nwakuche ★ Optimal control of the growth of wealth of nations. **2004h:91001**
Chung, Kai Lai (*with* AitSahlia, Farid) ★ Elementary probability theory. **2004i:60002**
Chuprunov, A. N. (*with* Rusakov, O. V.) Convergence for step line processes under summation of random indicators and models of market pricing. (English summary) **2004j:60022**
Coles, Melvyn G. (*with* Muthoo, Abhinay) Bargaining in a non-stationary environment. (English summary) **2004d:91003**
Compte, Olivier (*with* Jehiel, Philippe) Voluntary contributions to a joint project with asymmetric agents. (English summary)
Coolen, A. C. C. Non-equilibrium statistical mechanics of minority games. (English summary) **2004h:60148**
Cornet, Maarten F. Partition function bargaining with public demands. (English summary) **2004g:91120**
Corominas-Bosch, Margarida Bargaining in a network of buyers and sellers. (English summary) **2004j:91064**
Crémer, Jacques *see* **d'Aspremont, Claude et al.**, **2004k:91066**
Dal Forno, Arianna (*with* Montrucchio, Luigi) Optimality conditions and bubbles in sequential economies and bounded relative risk-aversion. (English summary) **2004d:90122**
David, Israel (*with* Levi, Ofer) A new algorithm for the multi-item exponentially discounted optimal selection problem. (English summary) **2004m:90192**
De Martino, A. (*with* Giardina, Irene; Mosetti, G.) Statistical mechanics of the mixed majority-minority game with random external information. (English summary) **2004h:91014**
De Meyer, Bernard (*with* Saley, Hadiza Moussa) On the strategic origin of Brownian motion in finance. (English summary) **2004b:91024**
De Simone, Anna (*with* Graziano, Maria Gabriella) Cone conditions in oligopolistic market models. (English summary) **2004a:91089**
Duarte, Antonio Marcos, Jr. *see* **de Almeida, Caio Ibsen Rodrigues et al.**
Dubey, Pradeep (*with* Geanakoplos, John) Monetary equilibrium with missing markets. (English summary) **2004f:91103**
Dufwenberg, Martin (*with* Kirchsteiger, Georg) A theory of sequential reciprocity. (English summary)
El-Khatib, Youssef (*with* Privault, Nicolas) Computations of Greeks in a market with jumps via the Malliavin calculus. (English summary) **2004k:91105**
Ennis, Huberto M. Macroeconomic fluctuations and bargaining. (English summary) **2004m:91182**
Eső, Péter (*with* Schummer, James) Bribing and signaling in second price auctions. (English summary) **2004m:91044**
Fatima, Shaheen S. (*with* Wooldridge, Michael; Jennings, Nicholas R.) An agenda-based framework for multi-issue negotiation. (English summary)
Feigenbaum, Joan (*with* Krishnamurthy, Arvind[1]; Sami, Rahul; Shenker, Scott) Hardness results for multicast cost sharing. (English summary) **2004g:68051**
Fernandes, Cristiano Augusto Coelho *see* **de Almeida, Caio Ibsen Rodrigues et al.**
Fieseler, Karsten (*with* Kittsteiner, Thomas; Moldovanu, Benny) Partnerships, lemons, and efficient trade. (English summary) **2004i:91127**
Fiestras-Janeiro, M. Gloria (*with* Klijn, Flip; Sánchez, Estela) Manipulation of optimal matchings via predonation of endowment. (English summary) **2004m:91183**

Forgó, F. (*with* Szidarovszky, Ferenc) On the relation between the Nash bargaining solution and the weighting method. (English summary) **2004a:91011**
Forzani, Liliana (*with* Tolmasky, Carlos) A family of models explaining the level-slope-curvature effect. (English summary) **2004d:91103**
Friedman, Eric J. (*with* Shor, Mikhael; Shenker, Scott; Sopher, Barry) An experiment on learning with limited information: nonconvergence, experimentation cascades, and the advantage of being slow. (English summary)
Fujiwara, Yoshihisa *see* **Souma, Wataru et al.**
Gale, David *see* **Alkan, Ahmet, 2004e:91014**
Garratt, Rod *see* **Bech, Morten L., 2004f:91040**
Geanakoplos, John *see* **Dubey, Pradeep, 2004f:91103**
Gérard-Varet, Louis-André *see* **d'Aspremont, Claude et al., 2004k:91066**
Ghosal, Sayantan *see* **Chatterji, Shurojit, 2004j:91011**
Giardina, Irene *see* **De Martino, A. et al., 2004h:91014**
Gilboa, Itzhak *see* **Billot, Antoine et al., 2004a:91009**
Glasserman, Paul (*with* Merener, Nicolas) Numerical solution of jump-diffusion LIBOR market models. (English summary) **2004a:60134**
Goeree, Jacob K. (*with* Offerman, Theo) The Amsterdam auction. (English summary) **2004j:91202**
González, Francisco M. *see* **Beaudry, Paul, 2004h:91079**
Granat, Sander *see* **Anderson, Christopher M. et al., 2004m:91156**
Graziano, Maria Gabriella *see* **De Simone, Anna, 2004a:91089**
(Greengard, Claude) *see* **Decision making under uncertainty, 2004k:91005**
Greenwald, Amy R. *see* **Kephart, Jeffrey O., (2004h:68003)**
Haines, Linda M. An approach to simple bargaining games and related problems. (English summary) **2004f:62023**
Heath, David C. (*with* Ku, Hyejin) Pareto equilibria with coherent measures of risk. (English summary) **2004m:91013**
Hirano, Keisuke (*with* Porter, Jack R.) Asymptotic efficiency in parametric structural models with parameter-dependent support. (English summary) **2004j:62219**
Holzman, Ron *see* **Apartsin, Yevgenia, 2004j:91020**
Hong, Yiguang *see* **Ma, Jin[2] et al., 2004h:93136**
Horng, Gwoboa (*with* Chen, Tzung-Her) An anonymous buyer-seller watermarking protocol. (English summary)
Hougaard Jensen, Svend E. (*with* Sørensen, Anders) On the measurement of relative demand shifts for educated labour. (English summary)
Hu, Cheng-Cheng The characterization of stable points of trajectories and transfer sequences. (English summary) **2004g:91034**
Hurkens, Sjaak (*with* Vulkan, Nir) Free entry does not imply zero profits. (English summary)
In, Younghwan (*with* Serrano, Roberto) Agenda restrictions in multi-issue bargaining. II. Unrestricted agendas. (English summary) **2004c:91006**
Ishii, Hiroaki[1] *see* **Ogawa, Masaru**
Jehiel, Philippe *see* **Compte, Olivier**
Jennings, Nicholas R. *see* **Luo, Xudong et al.** *and* **Fatima, Shaheen S. et al.**
Jouneau-Sion, Frédéric *see* **Albano, Gian Luigi**
Kameda, Hisao (*with* Ui, Takashi) Effects of symmetry on globalizing separated monopolies to a Nash-Cournot oligopoly. (English summary) (*see* **2004d:91002**)
Kannai, Yakar Costly Nash paths. (English summary) **2004i:91038**
Kanter, Ido *see* **Kinzel, Wolfgang**
Kephart, Jeffrey O. (*with* Greenwald, Amy R.) Shopbot economics. (English summary) (*see* **2004h:68003**)
Kinzel, Wolfgang (*with* Kanter, Ido) Disorder generated by interacting neural networks: application to econophysics and cryptography. (English summary)
Kirchsteiger, Georg *see* **Dufwenberg, Martin**
Kittsteiner, Thomas Partnerships and double auctions with interdependent valuations. (English summary) **2004d:91004**
— *see also* **Fieseler, Karsten et al., 2004i:91127**
Klijn, Flip *see* **Fiestras-Janeiro, M. Gloria et al., 2004m:91183**
Koçkesen, Levent (*with* Ok, Efe A.) Strategic delegation by unobservable incentive contracts. (English summary) **2004m:91150**
Koessler, Frédéric (*with* Ziegelmeyer, Anthony; Broihanne, Marie-Hélène) The favorite-longshot bias in sequential parimutuel betting with non-expected utility players. (English summary) **2004i:91045**
Kovalenkov, Alexander (*with* Wooders, Myrna) Approximate cores of games and economies with clubs. (English summary) **2004d:91022**
Kozłowski, Piotr (*with* Marsili, Matteo) Statistical mechanics of the majority game. (English summary) **2004k:91021**
Kraus, Sarit (*with* Schechter, Orna) Strategic negotiation for sharing a resource between two agents. (English summary) **2004e:91032**
Krishnamurthy, Arvind[1] *see* **Feigenbaum, Joan et al., 2004g:68051**
Ku, Hyejin *see* **Heath, David C., 2004m:91013**
Kubler, Felix (*with* Schmedders, Karl) Stationary equilibria in asset-pricing models with incomplete markets and collateral. (English summary) **2004h:91086**
Kumar, Vijay[3] *see* **Blum, Avrim et al., (2004a:68002)**
Kunimoto, Takashi (*with* Serrano, Roberto) Bargaining and competition revisited. (English summary) **2004j:91182**
Kuroda, Kazutaka (*with* Nagai, Hideo) Risk-sensitive portfolio optimization on infinite time horizon. (English summary) **2004a:93096**
Kyprianou, Andreas E. (*with* Pistorius, Martijn R.) Perpetual options and Canadization through fluctuation theory. (English summary) **2004f:60096**
Lahmandi-Ayed, Rim Finiteness property in vertically differentiated markets: a note on locally increasing and decreasing returns. (English summary) **2004j:91090**
Laing, Derek (*with* Palivos, Theodore; Wang, Ping) The economics of 'new blood'. (English summary) **2004f:91113**
Lavi, Ron (*with* Nisan, Noam) Competitive analysis of incentive compatible on-line auctions. (English summary) **2004i:68065**
Lee, Jimmy Ho-man *see* **Luo, Xudong et al.**
Lemke, Robert J. Dynamic bargaining with action-dependent valuations. (English summary) **2004k:91029**
Leung, Ho-fung *see* **Luo, Xudong et al.**
Levi, Ofer *see* **David, Israel, 2004m:90192**
(Levine, David K.) *see* **Peralta-Alva, Adrian**
Li Calzi, Marco (*with* Pellizzari, Paolo) Fundamentalists clashing over the book: a study of order-driven stock markets. (English summary)
Luo, Xiao (*with* Ma, Chenghu) "Agreeing to disagree" type results: a decision-theoretic approach. (English summary) **2004g:91033**
Luo, Xudong (*with* Jennings, Nicholas R.; Shadbolt, Nigel R.; Leung, Ho-fung; Lee, Jimmy Ho-man) A fuzzy constraint based model for bilateral, multi-issue negotiations in semi-competitive. (English summary)
Ma, Chenghu *see* **Luo, Xiao, 2004g:91033**
Ma, Jin[2] (*with* Cheng, Dai Zhan; Hong, Yiguang; Sun, Yuanzhang) On complexity of power systems. (English summary) **2004h:93136**
Marsili, Matteo *see* **Kozłowski, Piotr, 2004k:91021**
Martínez, Ruth (*with* Massó, Jordi; Neme, Alejandro; Oviedo, Jorge) An algorithm to compute the full set of many-to-many stable matchings. (English summary) **2004k:91158**
Massó, Jordi *see* **Martínez, Ruth et al., 2004k:91158**
Matros, A. D. Clever agents in adaptive learning. (English summary) **2004e:91033**
McAdams, David Isotone equilibrium in games of incomplete information. (English summary) **2004e:91012**
Mercier Ythier, Jean A limit theorem on the dual core of a distributive social system. (English summary) **2004m:91196**
Merener, Nicolas *see* **Glasserman, Paul, 2004a:60134**
Moldovanu, Benny *see* **Fieseler, Karsten et al., 2004i:91127**
Montrucchio, Luigi *see* **Dal Forno, Arianna, 2004d:90122**
Mosetti, G. *see* **De Martino, A. et al., 2004h:91014**
Muthoo, Abhinay *see* **Coles, Melvyn G., 2004d:91003**
Nagai, Hideo *see* **Kuroda, Kazutaka, 2004a:93096**
Nandeibam, Shasikanta Implementation in teams. (English summary) **2004g:91012**
Neme, Alejandro *see* **Martínez, Ruth et al., 2004k:91158**
Nisan, Noam *see* **Lavi, Ron, 2004i:68065**
Nishimura, Kazuo (*with* Yano, Makoto) Discrete-time in economics: an introduction.
Nocke, Volker (*with* Peitz, Martin) Hyperbolic discounting and secondary markets. (English summary) **2004c:91032**
Núñez, Marina (*with* Rafels, Carles) The assignment game: the τ-value. (English summary) **2004d:91025**
— (*with* Rafels, Carles) Buyer-seller exactness in the assignment game. (English summary) **2004d:91026**
— (*with* Rafels, Carles) Characterization of the extreme core allocations of the assignment game. (English summary) **2004e:91021**
Offerman, Theo *see* **Goeree, Jacob K., 2004j:91202**
Ogawa, Masaru (*with* Ishii, Hiroaki[1]) Benchmarking method considering complementary network externality. (English summary)
Ok, Efe A. *see* **Koçkesen, Levent, 2004m:91150**
Onozaki, Tamotsu (*with* Sieg, Gernot; Yokoo, Masanori) Stability, chaos and multiple attractors: a single agent makes a difference. (English summary) **2004c:37219**
Orshan, Gooni (*with* Valenciano Llovera, Federico; Zarzuelo Zarzosa, José Manuel) The bilateral consistent prekernel, the core, and NTU bankruptcy problems. (English summary) **2004d:91027**
Ouyang, Liang-Yuh *see* **Yao, Jing-Shing et al., 2004h:90007**
Oviedo, Jorge *see* **Martínez, Ruth et al., 2004k:91158**
Ozdenoren, Emre *see* **Al-Najjar, Nabil I. et al., 2004e:91038**
Palivos, Theodore *see* **Laing, Derek et al., 2004f:91113**
Peitz, Martin *see* **Nocke, Volker, 2004c:91032**
Peleg, Bezalel (*with* Sudhölter, Peter) The dummy paradox of the bargaining set. (*see* **2004b:91002**)
— (*with* Sudhölter, Peter) ★ Introduction to the theory of cooperative games. **2004i:91026**
Pellizzari, Paolo *see* **Li Calzi, Marco**
Peralta-Alva, Adrian Comment on: "Growth cycles and market crashes" [J. Econom. Theory **96** (2001), no. 1-2, 13–39; MR 2001k:91093] by M. Boldrin and D. K. Levine.
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Piotrowski, Edward W. Fixed point theorem for simple quantum strategies in quantum market games. (English summary)
Pistorius, Martijn R. *see* **Kyprianou, Andreas E., 2004f:60096**
Plott, Charles R. *see* **Anderson, Christopher M. et al., 2004m:91156**
Polkowski, Lech (*with* Araszkiewicz, Bolesław) A rough set approach to estimating the game value and the Shapley value from data. (English summary) **2004g:91014**
Porter, Jack R. *see* **Hirano, Keisuke, 2004j:62219**
(Postlewaite, Andrew) *see* **Special Issue: In honor of Robert W. Rosenthal**
Privault, Nicolas *see* **El-Khatib, Youssef, 2004k:91105**
Quint, Thomas *see* **Wako, Jun, 2004c:91007**
Rafels, Carles *see* **Núñez, Marina, 2004d:91025; 2004d:91026** *and* **2004e:91021**
Renault, Régis *see* **Anderson, Simon P., 2004i:91120**
(Rosenthal, Robert W.) *see* **Special Issue: In honor of Robert W. Rosenthal**
Rudra, Atri *see* **Blum, Avrim et al., (2004a:68002)**
Rusakov, O. V. *see* **Chuprunov, A. N., 2004j:60022**
Rusinowska, Agnieszka On certain generalization of Rubinstein's bargaining model. (*see* **2004b:91002**)
(Ruszczyński, Andrzej) *see* **Decision making under uncertainty, 2004k:91005**
Saley, Hadiza Moussa *see* **De Meyer, Bernard, 2004b:91024**
Sami, Rahul *see* **Feigenbaum, Joan et al., 2004g:68051**
Sánchez, Estela *see* **Fiestras-Janeiro, M. Gloria et al., 2004m:91183**
Scaramozzino, Pasquale (*with* Vulkan, Nir) Uncertainty and endogenous selection of economic equilibria. (English summary) **2004j:91181**
Schechter, Orna *see* **Kraus, Sarit, 2004e:91032**
Schmedders, Karl *see* **Kubler, Felix, 2004h:91086**
Schmidt, Thorsten[1] (*with* Stute, Winfried) Credit risk—a survey. (English summary) **2004k:91126**
Schummer, James *see* **Eső, Péter, 2004m:91044**

Segal, Ilya (*with* Whinston, Michael D.) Robust predictions for bilateral contracting with externalities. (English summary) **2004d:91151**
— Coordination and discrimination in contracting with externalities: divide and conquer? (English summary) **2004i:91124**
— Collusion, exclusion, and inclusion in random-order bargaining. (English summary) **2004a:91013**
Serrano, Roberto *see* **In, Younghwan, 2004c:91006** *and* **Kunimoto, Takashi, 2004j:91182**
Shadbolt, Nigel R. *see* **Luo, Xudong et al.**
Shenker, Scott *see* **Feigenbaum, Joan et al., 2004g:68051** *and* **Friedman, Eric J. et al.**
Sherstyuk, Katerina On competitive equilibria with common complementarities. (English summary) **2004e:91091**
Shimomura, Ken-Ichi *see* **Anderson, Christopher M. et al., 2004m:91156**
Shor, Mikhael *see* **Friedman, Eric J. et al.**
Sieg, Gernot *see* **Onozaki, Tamotsu et al., 2004c:37219**
Sopher, Barry *see* **Friedman, Eric J. et al.**
Sørensen, Anders *see* **Hougaard Jensen, Svend E.**
Sornette, Didier Critical market crashes. (English summary) **2004c:91075**
Sotomayor, Marilda Implementation in the many-to-many matching market. (English summary) **2004i:91155**
Souma, Wataru (*with* Fujiwara, Yoshihisa; Aoyama, Hideaki) Complex networks and economics. (English summary)
Spiegler, Ran Simplicity of beliefs and delay tactics in a concession game. (English summary) **2004k:91015**
Stute, Winfried *see* **Schmidt, Thorsten[1], 2004k:91126**
Sudhölter, Peter *see* **Peleg, Bezalel, 2004i:91026** *and* **(2004b:91002)**
Sun, Yuanzhang *see* **Ma, Jin[2] et al., 2004h:93136**
Szidarovszky, Ferenc *see* **Forgó, F., 2004a:91011**
Tallon, Jean-Marc *see* **Billot, Antoine et al., 2004a:91009**
Thomas, L. C. ★ Games, theory and applications. **2004j:91001**
Thomson, William L. Axiomatic and game-theoretic analysis of bankruptcy and taxation problems: a survey. (English summary) **2004c:91003**
Toda, Manabu Consistency and its converse in assignment games. **2004c:91019**
Tolmasky, Carlos *see* **Forzani, Liliana, 2004d:91103**
Tsomocos, Dimitrios P. Equilibrium analysis, banking and financial instability. (English summary) **2004f:91108**
Ui, Takashi *see* **Kameda, Hisao, (2004d:91002)**
Valenciano Llovera, Federico *see* **Orshan, Gooni et al., 2004d:91027**
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Wako, Jun (*with* Quint, Thomas) Two examples in a market with two types of indivisible good. (English summary) **2004c:91007**
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Wärneryd, Karl Information in conflicts. (English summary) **2004d:91005**
Westermark, Andreas Bargaining, binding contracts, and competitive wages. (English summary) **2004d:91048**
Whinston, Michael D. *see* **Segal, Ilya, 2004d:91151**
(Wilson, Robert B.) *see* **Special Issue: In honor of Robert W. Rosenthal**
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Wong, Kit Pong Export flexibility and currency hedging. (English summary) **2004f:91058**
Wooders, Myrna *see* **Kovalenkov, Alexander, 2004d:91022**
Wooldridge, Michael *see* **Fatima, Shaheen S. et al.**
Wu, Felix *see* **Blum, Avrim et al., (2004a:68002)**
Xu, Hui Fu *see* **Anderson, Edward J., 2004a:90114**
Yan, Huibin Noncooperative selection of the core. (English summary) **2004h:91016**
Yano, Makoto *see* **Nishimura, Kazuo**
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Zarzuelo Zarzosa, José Manuel *see* **Orshan, Gooni et al., 2004d:91027**
Ziegelmeyer, Anthony *see* **Koessler, Frédéric et al., 2004i:91045**

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Rosenthal, Robert W. ★ Special issue in honor of Robert W. Rosenthal.
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91B28 Finance, portfolios, investment

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Albanese, Claudio (*with* Jaimungal, Sebastian; Rubisov, Dmitri H.) A two-state jump model. (English summary) **2004c:91043**
Al'beverio, S. A. (*with* Steblovskaya, V.) Financial market with interacting assets. Pricing barrier options. (English summary) **2004c:91044**
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Alvarez, Susana *see* **Baixauli, J. Samuel**
Amato, Paolo *see* **Montagna, Guido et al.**
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de Andrés Sánchez, Jorge (*with* Terceño Gómez, Antonio) Estimating a term structure of interest rates for fuzzy financial pricing by using fuzzy regression methods. (English summary) **2004k:91093**
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Atiya, Amir F. *see* **Magdon-Ismail, Malik**
Avellaneda, Marco (*with* Boyer-Olson, Dash; Busca, Jérôme; Friz, Peter) Application of large deviation methods to the pricing of index options in finance. (English and French summaries) **2004b:91084**
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Avram, Florin *see* **Asmussen, Søren et al., 2004m:91096**
Baaquie, Belal E. (*with* Srikant, Marakani; Warachka, Mitch C.) A quantum field theory term structure model applied to hedging. (English summary) **2004e:91059**
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Balbas de la Corte, Alejandro (*with* Ibáñez, Alfredo) Maxmin portfolios in models where immunization is not feasible. (English summary) **2004j:91113**
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Bally, Vlad (*with* Pagès, Gilles; Printems, Jacques) First-order schemes in the numerical quantization method. (English summary) **2004b:91085**
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Bank, Peter (*with* Föllmer, Hans) American options, multi-armed bandits, and optimal consumption plans: a unifying view. (English summary) **2004j:91114**
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Baptista, Alexandre M. Spanning with American options. (English summary) **2004e:91060**
Baran, Michał Quantile hedging on markets with proportional transaction costs. (English summary) **2004c:91045**
Barberà, Glòria *see* **Terceño Gómez, Antonio et al., 2004d:91131**
Bardhan, Indrajit *see* **Chao, Xiuli**
Bardos, Claude (*with* Douady, Raphaël; Fursikov, Andrei V.) Static hedging of barrier options with a smile: an inverse problem. (English summary) **2004b:91086**
Barlevy, Gadi (*with* Veronesi, Pietro) Rational panics and stock market crashes. (English summary) **2004d:91097**
Barndorff-Nielsen, Ole E. (*with* Shephard, Neil) Realized power variation and stochastic volatility models. (English summary) **2004d:91098**
Barone-Adesi, Giovanni (*with* Sorwar, Ghulam) Interest rate barrier options. (English summary) **2004j:91115**
— (*with* Bermudez, Ana; Hatgioannides, John) Two-factor convertible bonds valuation using the method of characteristics/finite elements. (English summary) **2004b:91087**
Barron, Andrew R. *see* **Cross, Jason E., 2004a:91062**
de Barros Nabholz, Rodrigo *see* **Costa, Oswaldo L. V., 2004j:91123**
Bartolucci, Francesco (*with* De Luca, Giovanni) Estimation of stochastic volatility models. (English summary) **2004i:91082**
Barucci, Emilio (*with* Malliavin, Paul; Mancino, Maria Elvira; Renò, Roberto; Thalmaier,

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Baum, Dietmar *see* **Bank, Peter, 2004k:91096**

Baviera, Roberto Vol-Bond: an analytical solution. (English summary)

Becherer, Dirk Rational hedging and valuation of integrated risks under constant absolute risk aversion. (English summary) **2004i:91083**

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Beltratti, Andrea (*with* Laurant, Andrea; Zenios, Stavros A.) Scenario modelling for selective hedging strategies. (English summary)

Benati, Stefano The optimal portfolio problem with coherent risk measure constraints. (English summary) **2004j:91116**

Benhamou, Eric (*with* Duguet, Alexandre) Small dimension PDE for discrete Asian options. (English summary) **2004f:91072**

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— (*with* Kohatsu-Higa, Arturo; Montero, Miquel) Local vega index and variance reduction methods. (English summary) **2004b:91089**

Bermudez, Ana *see* **Barone-Adesi, Giovanni et al., 2004b:91087**

Bernaschi, M. *see* **Sbaraglia, Simone et al., 2004d:91129**

Bianchi, Stephen W. (*with* Wets, Roger J.-B.; Yang, Liming) Estimating Libor/swaps spot-volatilities: the EpiVolatility model. (English summary) **2004k:91098**

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Blomvall, Jörgen *see* **Manzano, Julián**

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de Bodt, Eric *see* **Lendasse, Amaury et al., (2004m:91008)**

Bongini, L. *see* **Schianchi, A. et al., 2004i:91096**

Borici, Artan (*with* Lüthi, Hans-Jakob) Pricing American put options by fast solutions of the linear complementarity problem. (English summary) **2004m:91100**

Borland, Lisa *see* **Tsallis, Constantino et al.**

Bosch Princep, Manuela *see* **Devolder, Pierre et al., 2004i:91085**

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Chai, Jun *see* **Tian, Rong**

Challe, Edouard Sunspots and predictable asset returns. (English summary)

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Chen, Qi-hong *see* **Jiang, Li-shang et al., 2004j:91133**

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Cheng, Qian Sheng *see* **Zhang, Ming-Heng** *and* **Zhan, Hui Rong**

Cheridito, Patrick Sensitivity of the Black-Scholes option price to the local path behavior of the stochastic process modeling the underlying asset. (English summary) **2004b:91092**

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Cho, Kyung-Ha Continuous auctions and insider trading: uniqueness and risk aversion. (English summary) **2004a:91061**

Christofides, Alexander *see* **Christofides, Simon et al.**

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Corazza, Marco *see* **Billio, Monica et al.**

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Costa, Oswaldo L. V. (*with* de Barros Nabholz, Rodrigo) A linear matrix inequalities approach to robust mean-semivariance portfolio optimization. (English summary) **2004j:91123**

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Coulibaly, Ibrahim *see* **Picard, Philippe et al., 2004e:91069**

Crane, Martin *see* **Sharifi, S. et al., 2004m:91124**

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Cvitanić, Jakša (*with* Goukasian, Levon; Zapatero, Fernando) Hedging with Monte Carlo simulation. (English summary) **2004j:91124**

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Dahl, Lars O. *see* **Benth, Fred Espen et al., 2004h:91049**

Dai, Min[2] One-state variable binomial models for European-/American-style geometric Asian options. (English summary) **2004f:91074**

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Da Silva, Sergio *see* **Figueiredo, Annibal et al., 2004d:91102**

Davydov, Dmitry (*with* Linetsky, Vadim) Pricing options on scalar diffusions: an eigenfunction expansion approach. (English summary) **2004a:91063**

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Deng, Xiao-Tie *see* **Li, Zhong-Fei et al., 2004a:91076** *and* **Zhang, Shunming et al., 2004i:91104**

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Dīdkovs'ka, Bogdana V. *see* **Grigorov, Andrīĭ V.**

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Diener, Marc *see* **Diener, Francine, 2004k:91104**

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Dochviri, B. *see* **Abuladze, T.**

Dominguez Fabian, Inmaculada *see* **Devolder, Pierre et al., 2004i:91085**

Douady, Raphaël *see* **Bardos, Claude et al., 2004b:91086**

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Draviam, Thangaraj (*with* Chellathurai, Thamayanthi) Generalized Markowitz mean-variance principles for multi-period portfolio-selection problems. (English summary) **2004a:91064**

Drineas, Petros *see* **Akcoglu, Karhan et al.**

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Duguet, Alexandre *see* **Benhamou, Eric, 2004f:91072**

Durrleman, Valdo *see* **Carmona, René A., 2004m:91102**

Eberlein, Ernst (*with* Özkan, Fehmi) The defaultable Lévy term structure: ratings and restructuring. (English summary) **2004a:91065**

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Farley, Alan *see* **Zhang, Cheng et al.**

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Filipović, Damir[1] Affine short rate models. (English summary) **2004b:91098**

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Flôres, Renato G., Jr. *see* **de Athayde, Gustavo M., 2004m:91097**

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Forzani, Liliana (*with* Tolmasky, Carlos) A family of models explaining the level-slope-curvature effect. (English summary) **2004d:91103**

Fouque, Jean-Pierre (*with* Han, Chuan-Hsiang) Pricing Asian options with stochastic volatility. (English summary) **2004k:91106**

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Frieden, B. Roy *see* **Hawkins, Raymond J., 2004m:91111**

Friedman, Craig (*with* Sandow, Sven) Model performance measures for expected utility maximizing investors. (English summary) **2004d:91104**

Frishling, V. *see* **Novikov, Aleksandr A. et al., 2004g:91076**

Friz, Peter *see* **Avellaneda, Marco et al., 2004b:91084**

Fu, Michael C. *see* **Wu, Rongwen, 2004b:91110**

Fuglsbjerg, Brian *see* **Damgaard, Anders et al., 2004g:91068**

Fullér, Róbert *see* **Carlsson, Christer**

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Gaĭvoronskiĭ, A. A. (*with* Stella, Fabio) On-line portfolio selection using stochastic programming. (English summary) **2004b:91099**

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Gerbessiotis, Alexandros V. Trinomial-tree based parallel option price valuations. (English summary)

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Germano, M. *see* **Dempster, M. A. H. et al., (2004j:90007)**

Giardinà, Cristian *see* **Schianchi, A. et al., 2004i:91096**

Gilli, Manfred (*with* Këllezi, Evis) A global optimization heuristic for portfolio choice with var and expected shortfall. (English summary) **2004j:91128**

van Ginderen, Helmut *see* **Garcia, Joao B. C. et al.**

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Gléria, Iram M. *see* **Figueiredo, Annibal et al., 2004d:91102**

Gobbo, Michele *see* **Billio, Monica et al.**

Goldbaum, David Profitable technical trading rules as a source of price instability. (English summary) **2004d:91106**

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Goukasian, Levon *see* **Cvitanić, Jakša et al., 2004j:91124**

Gozzi, F. *see* **Sbaraglia, Simone et al., 2004d:91129**

Grasselli, Martino A stability result for the HARA class with stochastic interest rates. (English summary) **2004h:91052**
— *see also* **Deelstra, Griselda et al., 2004g:91069**
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Guhr, Thomas (*with* Kälber, Bernd) A new method to estimate the noise in financial correlation matrices. (English summary) **2004h:91053**
Guinvarc'h, Martial V. (*with* Janssen, Jacques; Cordier, Jean E.) Agricultural finance revenue futures contract. (English summary)
Gülpınar, Nalan (*with* Rustem, Berç; Settergren, Reuben) Multistage stochastic programming in computational finance. (English summary) **2004j:91130**
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Guo, Wen Jing (*with* Hu, Qi Ying) Mean-variance portfolio selection with random parameters: a martingale approach. (Chinese. English and Chinese summaries)
Guo, Wen-yan *see* **Xue, Hong-gang et al., 2004j:91159**
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Gushchin, A. A. (*with* Mordecki, Ernesto) Bounds on option prices for semimartingale market models. (Russian. Russian summary) **2004f:91075**
Haberman, Steven (*with* Vigna, Elena) Optimal investment strategies and risk measures in defined contribution pension schemes. (English summary) **2004b:91100**
— *see also* **Ballotta, Laura, 2004h:91048**
Haliassos, Michael (*with* Hassapis, Christis) Borrowing constraints, portfolio choice, and precautionary motives. (English summary) (*see* **2004h:91006**)
Han, Chuan-Hsiang *see* **Fouque, Jean-Pierre, 2004k:91106**
Hanel, Rudolf *see* **Thurner, Stefan et al.**
Hanke, Michael (*with* Pötzelberger, Klaus) Dilution, anti-dilution and corporate positions in options on the company's own stocks. (English summary) **2004h:91054**
Hartinger, Jürgen (*with* Predota, Martin) Simulation methods for valuing Asian option prices in a hyperbolic asset price model. (English summary)
Hassapis, Christis *see* **Haliassos, Michael, (2004h:91006)**
Hatgioannides, John *see* **Barone-Adesi, Giovanni et al., 2004b:91087**
Haugh, Martin B. (*with* Kogan, Leonid) Pricing American options: a duality approach. (English summary)
Haussmann, Ulrich *see* **Zhao, Yonggan et al., 2004h:91073**
Haven, Emmanuel A Black-Scholes Schrödinger option price: 'bit' versus 'qubit'. (English summary) **2004j:91131**
Hawkins, Raymond J. (*with* Frieden, B. Roy) Fisher information and equilibrium distributions in econophysics. (English summary) **2004m:91111**
He, Dong Hua *see* **Li, Hua et al.**
Hennessy, David A. (*with* Lapan, Harvey E.) An algebraic theory of portfolio allocation. (English summary)
Henrard, Marc Explicit bond option formula in Heath-Jarrow-Morton one factor model. (English summary) **2004a:91072**
Hernández-Hernández, Daniel *see* **Fleming, Wendell H., 2004a:91070** *and* **Castañeda-Leyva, Netzahualcóyotl, 2004m:91103**
Herzberger, Jürgen *see* **Detmers, F., (2004c:65046)**
Hipp, Christian (*with* Plum, Michael) Optimal investment for investors with state dependent income, and for insurers. (English summary) **2004f:91076**
Ho, Alan F. Optimal trading strategy for European options with transaction costs. (English summary) **2004d:91108**
Hodges, Stewart *see* **Černý, Aleš, 2004d:91101**
Höing, Andrea *see* **Embrechts, Paul et al., 2004c:91048**
Holt, Richard W. P. Investment and dividends under irreversibility and financial constraints. (English summary) **2004b:91101**
Honda, Toshiki Optimal portfolio choice for unobservable and regime-switching mean returns. (English summary) **2004g:91071**
Hörfelt, Per Extension of the corrected barrier approximation by Broadie, Glasserman, and Kou. (English summary) **2004b:91102**
— Pricing discrete European barrier options using lattice random walks. (English summary) **2004g:91072**
Hou, Zhen Ting *see* **Chen, Chao[1] et al., 2004j:91121**
Howison, S. D. *see* **Lamper, David**
Hu, Qi Ying *see* **Liu, Xuan Hui** *and* **Guo, Wen Jing**
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Huang, Kevin X. D. On infinite-horizon minimum-cost hedging under cone constraints. (English summary) **2004h:91055**
Huang, Li Hong *see* **Yang, Zhao Jun et al., 2004h:91072**
Huang, Nan Jing *see* **Ge, Yu**
Huchzermeier, Arnd *see* **Spinler, Stefan et al., 2004g:91080**
Hughston, Lane P. *see* **Brody, Dorje C., 2004m:91101**
Hui, C. H. *see* **Lo, C. F. et al., 2004c:91053** *and* **2004i:91091**
Hunter, John *see* **Serguieva, Antoaneta, 2004k:91120**
Hurn, Stan *see* **Becker, Ralf[2]**
Ibáñez, Alfredo Valuation by simulation of contingent claims with multiple exercise opportunities. (English summary)
— *see also* **Balbas de la Corte, Alejandro, 2004j:91113**
Ida, Masaaki Portfolio selection problem with interval coefficients. (English summary) **2004b:91103**
In, Francis *see* **Zhang, Cheng et al.**
Ishijima, Hiroshi Bayesian interpretation of continuous-time universal portfolios. (English summary) **2004b:91104**
Ivanov, Viktor Vladimirovich[2] *see* **Antoniou, Ioannis E. et al.**
Iwaki, Hideki An economic premium principle in a continuous-time economy. (English summary) **2004d:91109**
Jach, Agnieszka Location of Schweizer price in the range of European options prices for a diffusion with jumps model of the financial market. (English summary) **2004h:91056**
Jaimungal, Sebastian *see* **Albanese, Claudio et al., 2004c:91043**
Jakubėnas, Paulius On option pricing in certain incomplete markets. (English summary) **2004d:91110**
Janeček, Karel (*with* Shreve, Steven E.) Asymptotic analysis for optimal investment and consumption with transaction costs. (English summary) **2004m:91113**
Janssen, Jacques *see* **Guinvarc'h, Martial V. et al.**
Jaworski, Piotr A geometric point of view on mean-variance models. (English summary) **2004e:91062**
Jeantheau, Thierry A link between complete models with stochastic volatility and ARCH models. (English summary) **2004j:91132**
Jian, Zhihong (*with* Li, Chu Lin) Pricing of multiple defaultable bond. (English summary) **2004d:91111**
Jiang, Li-shang (*with* Chen, Qi-hong; Wang, Li Jun; Zhang, Jin E.) A new well-posed algorithm to recover implied local volatility. (English summary) **2004j:91133**
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Jonsson, Mattias (*with* Sircar, K. Ronnie) Optimal investment problems and volatility homogenization approximations. (English summary) **2004j:91134**
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— (*with* Napp, Clotilde) Convergence of utility functions and convergence of optimal strategies. (English summary) **2004j:91135**
Juri, Alessandro *see* **Embrechts, Paul et al., 2004c:91048**
Kaas, Rob *see* **Vanduffel, S. et al.**
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Kalai, Adam (*with* Vempala, Santosh) Efficient algorithms for universal portfolios. (English summary) **2004h:91057**
Kälber, Bernd *see* **Guhr, Thomas, 2004h:91053**
Kallsen, Jan Utility-based derivative pricing in incomplete markets. (English summary) **2004a:91073**
Kao, Ming-Yang *see* **Akcoglu, Karhan et al.**
Karatzas, Ioannis (*with* Žitković, Gordan) Optimal consumption from investment and random endowment in incomplete semimartingale markets. (English summary) **2004h:91058**
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Karguine, Slava Optimal asset allocation with asymptotic criteria. (English summary)
Karlsen, Kenneth Hvistendahl *see* **Benth, Fred Espen et al., 2004a:91056; 2004h:91049; 2004k:91097** *and* **(2004a:62014)**
Kaščelan, Vladimir Estimation of beta coefficient and stock option pricing. (English summary) **2004i:91086**
Kashin, B. S. (*with* Pastukhov, S. V.) On short-term forecasting in the securities market. (Russian) **2004g:91073**
Kellerer, Hans[2] *see* **Maringer, Dietmar**
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— *see also* **Gilli, Manfred, 2004j:91128**
Kennedy, N. L. (*with* Zhu, Yun Min) Generalized minimum-variance-portfolio weights. (English and Chinese summaries) **2004m:91115**
Kerstens, Kristiaan *see* **Briec, Walter et al., 2004j:91119**
Khalifa, H. A. *see* **Ammar, Elsaid Ebrahim**
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Kiesel, Rüdiger *see* **Bingham, N. H. et al., 2004j:91117**
Kijima, Masaaki (*with* Miyake, Yusuke) On the term structure of lending interest rates when a fraction of collateral is recovered upon default. (English summary) **2004i:91087**
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Knight, John L. (*with* Satchell, Stephen; Wang, Guoqiang) Value at risk linear exponent (VARLINEX) forecasts. (English summary) **2004e:91063**
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Kogan, Leonid *see* **Haugh, Martin B.**
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Kolkiewicz, Adam W. *see* **Boyle, Phelim P. et al., 2004d:91100**
Konno, Hiroshi Portfolio optimization of small scale fund using mean-absolute deviation model. (English summary) **2004d:91114**
Kordzakhia, Nino *see* **Novikov, Aleksandr A. et al., 2004g:91076**
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Koulisianis, M. D. (*with* Papatheodorou, T. S.) Pricing of American options using linear complementarity formulation: methods and their evaluation. (English summary) **2004j:91137**
Koulouriotis, D. E. *see* **Diakoulakis, I. E. et al., 2004j:91126**
Kraft, Holger Elasticity approach to portfolio optimization. (English summary) **2004e:91064**
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Kramkov, D. (*with* Schachermayer, Walter) Necessary and sufficient conditions in the problem of optimal investment in incomplete markets. (English summary) **2004j:91138**
Krause, Andreas Inventory effects on daily returns in financial markets. (English summary) **2004i:91089**
Krawczyk, Jacek B. A Markovian approximated solution to a portfolio management problem. (English summary) **2004d:91115**
Krebs, Tom (*with* Wilson, Bonnie) Asset returns in an endogenous growth model with incomplete markets. (English summary) **2004f:91077**
Kryanev, A. V. *see* **Antoniou, Ioannis E. et al.**
Kunitomo, Naoto (*with* Takahashi, Akihiko) On validity of the asymptotic expansion approach in contingent claim analysis. (English summary) **2004e:91065**
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Kwok, Yue Kuen *see* **Yu, Hong et al., 2004c:91059**; **Wong, Hoi Ying** *and* **Chu, Chi Chiu**
Kyprianou, Andreas E. Some calculations for Israeli options. (English summary) **2004k:91110**
Labadie, Suzanne M. *see* **McCartin, Brian J., 2004d:91122**
Lacaze, Dominique *see* **Kwan, Clarence C. Y.** *and* **Charpin, Françoise**
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Lapan, Harvey E. *see* **Hennessy, David A.**
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Lari-Lavassani, Ali (*with* Simchi, Mohamadreza; Ware, Antony) A discrete valuation of swing options. (English summary) **2004d:91117**
Last, Günter *see* **Kabanov, Yu. M., 2004d:91113**
Laue, Silke *see* **Korn, Ralf, (2004b:60005)**
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Laurant, Andrea *see* **Beltratti, Andrea et al.**
Laurence, Peter (*with* Stredulinsky, Edward) A comparison principle for an American option on several assets: index and spread options. (English summary) **2004f:91078**
Laws, Jason (*with* Thompson, John L.) The efficiency of financial futures markets: tests of prediction accuracy. (English summary)
Lee, Hon-chor *see* **Lo, C. F. et al., 2004c:91053**
Lee, John Aldo *see* **Lendasse, Amaury et al., (2004m:91008)**
Lefèvre, Claude *see* **Picard, Philippe et al., 2004e:91069** *and* **2004e:91070**
Lefoll, Jean *see* **Perrakis, Stylianos, 2004k:91118**
Leippold, Markus (*with* Trojani, Fabio; Vanini, Paolo) A geometric approach to multiperiod mean variance optimization of assets and liabilities. (English summary) **2004j:91139**
Lendasse, Amaury (*with* Lee, John Aldo; de Bodt, Eric; Wertz, Vincent; Verleysen, Michel) Approximation by radial basis function networks: application to option pricing. (English summary) (*see* **2004m:91008**)
Leontitsis, Alexandros A note on shuffled financial surrogates. (English summary)
Lesourd, J. B. *see* **Briec, Walter et al., 2004j:91119**
Le Van, Cuong *see* **Allouch, Nizar et al., 2004d:91096**
Levendorskiĭ, Sergei Consistency conditions for affine term structure models. (English summary) **2004k:91111**
Levy, Moshe Are rich people smarter? (English summary) **2004d:91118**
Li, Chu Lin *see* **Jian, Zhihong, 2004d:91111**; **Yang, Ming, 2004d:91134**; **2004i:91101**; **Mei, Zhengyang, (2004d:91002)** *and* **Liu, Jin Shan[2] et al.**
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Li, Ming Hui *see* **Zhang, Tie**
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Li, Shi Yin *see* **Wang, Bao He**
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Li, Zhong-Xiang *see* **Li, Zhong-Fei et al., 2004a:91076**
Liang, Xiang Qian *see* **Wang, Xiao-Tian et al., 2004f:91088**
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Liinev, J. *see* **Deelstra, Griselda et al., 2004k:91103**
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Lin, Tyrone T. A new real options entry model with HARA utility class. (English summary)
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Lin, Yan-ping *see* **Allegretto, Walter et al., (2004h:00025)**
Lin, Yi[3] *see* **Ying, Yi-rong et al., 2004e:91072**
Lindset, Snorre Pricing of multi-period rate of return guarantees. (English summary) **2004i:91090**
Linetsky, Vadim *see* **Davydov, Dmitry, 2004a:91063** *and* **Gorovoi, Viatcheslav, 2004j:91129**
Lipkin, Michael D. *see* **Avellaneda, Marco**
Liu, Dao Bai Mean-variance hedging for pricing European-type contingent claims with transaction costs. (English summary) **2004j:91140**
Liu, Jin E *see* **Zhao, Xia et al., 2004a:91083**
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Liu, S. (*with* Wang, Shou Yang; Qiu, Wan Hua) Mean-variance-skewness model for portfolio selection with transaction costs. (English summary) **2004h:91062**
Liu, San Yang *see* **Yan, Hai Feng, 2004h:91071**
Liu, Shancun (*with* Qiu, Wan Hua) Ordered weighted averaging aggregation method for portfolio selection. (English summary) **2004k:91113**
Liu, Shao Yue (*with* Yang, Xiang Qun) Pricing of European option on dividend-paying stock in a fractional Brownian motion environment. (Chinese. English and Chinese summaries)
Liu, Shu Ren *see* **Yang, Liu**
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Liu, Xian Zhong *see* **Lü, Yu Hua**
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Lo, C. F. (*with* Hui, C. H.) Pricing multi-asset financial derivatives with time-dependent parameters—Lie algebraic approach. (English summary) **2004i:91091**
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Løkka, Arne *see* **Benth, Fred Espen et al., 2004a:91057**
Londoño, Jaime A. State tameness: a new approach for credit constrains. (English summary) **2004m:91116**
Lorenzana, Tomás *see* **Terceño Gómez, Antonio et al., 2004d:91131**
Lü, Yu Hua (*with* Liu, Xian Zhong) Interest rate uncertainty and investment decisions. (Chinese. English and Chinese summaries)
Lukin, G. V. *see* **Antoniou, Ioannis E. et al.**
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Luo, Qiu Lan (*with* Chen, You Lu) Investment strategies for portfolios with transaction costs. (Chinese. English and Chinese summaries) **2004b:91106**
Lüthi, Hans-Jakob *see* **Borici, Artan, 2004m:91100**
Ma, Chaoqun *see* **Yang, Zhao Jun et al., 2004h:91072**
Ma, He-Ping *see* **Sheng, Hui-Li**
Ma, Jin[1] *see* **Cvitanić, Jakša et al., 2004g:91067** *and* **Galea Rojas, Manuel et al., 2004k:91107**
Machado, Birajara S. *see* **Ferreira, Fernando F. et al., 2004c:91049**
MacLean, Leonard C. (*with* Sanegre, Rafael; Zhao, Yonggan; Ziemba, William T.) Capital growth with security. (English summary) **2004k:91114**
Magdon-Ismail, Malik (*with* Atiya, Amir F.) A maximum likelihood approach to volatility estimation for a Brownian motion using high, low and close price data. (English summary)
Mahayni, Antje Effectiveness of hedging strategies under model misspecification and trading restrictions. (English summary) **2004e:91066**
Mahomed, F. M. *see* **Pooe, C. A. et al., 2004d:91127**
Maillet, Bertrand (*with* Rousset, Patrick) Classifying hedge funds with Kahonen maps: a first attempt. (English summary) (*see* **2004m:91008**)
Makagon, A. *see* **Broszkiewicz-Suwaj, E. et al.**
Malcolm, W. P. *see* **Elliott, Robert J. et al., 2004b:91096**
Malevergne, Y. (*with* Sornette, Didier) Testing the Gaussian copula hypothesis for

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Maller, R. A. (*with* Turkington, D. A.) New light on the portfolio allocation problem. (English summary) **2004a:91078**

Malliavin, Paul *see* **Barucci, Emilio et al., 2004d:91099**

Mallier, Roland (*with* Alobaidi, Ghada) Pricing equity-linked debt using the Vasicek model. (English summary) **2004d:91119**

— (*with* Alobaidi, Ghada) A new algorithm for Monte Carlo for American options. (English summary) **2004j:91141**

— *see also* **Alobaidi, Ghada, 2004b:91083**

Mamon, Rogemar S. Three ways to solve for bond prices in the Vasicek model. (English summary) **2004j:91142**

Mancino, Maria Elvira *see* **Barucci, Emilio et al., 2004d:91099**

Mania, Mikhael (*with* Tevzadze, Revaz) Backward stochastic PDE and hedging in incomplete markets. (English and Georgian summaries) **2004d:91120**

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Manoliu, Mihaela Storage options valuation using multilevel trees and calendar spreads. (English summary)

Mansini, Renata (*with* Ogryczak, Włodzimierz; Speranza, Maria Grazia) On LP solvable models for portfolio selection. (English and Lithuanian summaries) **2004k:91115**

— *see also* **Chiodi, Luca et al., 2004k:91101**

Manzano, Julián (*with* Blomvall, Jörgen) Positive forward rates in the maximum smoothness framework. (English summary)

Marciniuk, Agnieszka *see* **Burnecki, Krzysztof et al.**

Mari, Carlo Single factor models with Markovian spot interest rate: an analytical treatment. (English summary) **2004i:91092**

Maringer, Dietmar (*with* Kellerer, Hans[2]) Optimization of cardinality constrained portfolios with a hybrid local search algorithm. (English summary)

Martini, Claude The cheapest superstrategy without optional decomposition. (English summary) **2004d:91121**

Maskawa, Jun-ichi Multivariate Markov chain modeling for stock markets. (English summary)

Maslov, V. P. On the nonlinearity of averages in financial mathematics. (Russian)

Masoliver, Jaume *see* **Perelló, Josep, 2004m:91119**

Masutti, Oliver *see* **Zumbach, Gilles et al., 2004j:91161**

Matsushita, Raul *see* **Figueiredo, Annibal et al., 2004d:91102**

McAleer, Michael *see* **Verhoeven, Peter**

McCartin, Brian J. (*with* Labadie, Suzanne M.) Accurate and efficient pricing of vanilla stock options via the Crandall-Douglas scheme. (English summary) **2004d:91122**

Medova-Dempster, E. A. *see* **Dempster, M. A. H. et al.**, (**2004j:90007**)

Medvedev, Gennadiĭ Alekseevich Pricing financial derivatives when the price of the underlying asset is a random process with a floating reflecting lower boundary. (Russian. English and Russian summaries) **2004c:91054**

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Mei, Zhengyang (*with* Li, Chu Lin) Strategic analysis and application of corporate debt. (English summary) (*see* **2004d:91002**)

Melamed, Benjamin Modeling financial time series using ARM processes. (English summary) **2004d:91123**

Mèndez, O. (*with* Stumpf, S.) Pricing European options of assets with dividends and stochastic volatility. (Portuguese. English and Portuguese summaries)

Mercurio, Fabio *see* **Brigo, Damiano et al., 2004a:91059** *and* **2004a:91060**

Merino, Sandro *see* **Koch Medina, Pablo, 2004c:91051**

Meucci, Attilio *see* **Mignacca, Domenico, 2004j:91144**

Miao, Bao-shan *see* **Xue, Hong-gang et al., 2004j:91159**

Michael, Fredrick (*with* Johnson, M. D.) Derivative pricing with non-linear Fokker-Planck dynamics. (English summary) **2004j:91143**

Mignacca, Domenico (*with* Meucci, Attilio) Multi-period optimal asset allocation for a multi-currency hedged portfolio. (English summary) **2004j:91144**

Mishura, Yuliya S. (*with* Valkeĭla, È.) Absence of arbitrage in a mixed Brownian-fractional Brownian model. (Russian. Russian summary) **2004k:91116**

Miyake, Yusuke *see* **Kijima, Masaaki, 2004i:91087**

Monoyios, Michael Option pricing with transaction costs using a Markov chain approximation. (English summary) **2004m:91117**

Montagna, Guido (*with* Nicrosini, Oreste; Moreni, Nicola) A path integral way to option pricing. (English summary) **2004h:91063**

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Montero, Miquel *see* **Bermin, Hans-Peter et al., 2004b:91089**

Moraux, Franck (*with* Villa, Christophe) The dynamics of the term structure of interest rates: an independent component analysis. (English summary) (*see* **2004m:91008**)

Mordecki, Ernesto Perpetual options for Lévy processes in the Bachelier model. (English summary) **2004d:91124**

— *see also* **Gushchin, A. A., 2004f:91075**

Morelli, Marco *see* **Montagna, Guido et al.**

Moreni, Nicola *see* **Montagna, Guido et al., 2004h:91063**

Morettin, Pedro A. ★ Séries temporais em finanças. (Portuguese) [Financial time series] **2004d:91125**

Morland, W. J. *see* **Windcliff, H. et al.**, (**2004h:91006**)

Mukerji, Sujoy (*with* Tallon, Jean-Marc) Ellsberg's two-color experiment, portfolio inertia and ambiguity. (English summary) **2004f:91081**

Mulinacci, Sabrina American path-dependent options: analysis and approximations. (English summary) **2004j:91145**

Mulvey, John M. (*with* Simsek, Koray D.) Rebalancing strategies for long-term investors. (English summary) **2004j:91146**

— (*with* Shetty, Bala) Financial planning via multi-stage stochastic optimization. (English summary) **2004h:91064**

Munk, Claus *see* **Damgaard, Anders et al., 2004g:91068**

Muñoz-Bouzo, María José *see* **Balbas de la Corte, Alejandro, 2004k:91095**

Muruganandam, Paulsamy *see* **Ferreira, Fernando F. et al., 2004c:91049**

Muzzioli, Silvia (*with* Torricelli, Costanza) A multiperiod binomial model for pricing options in a vague world. (English summary) **2004j:91147**

Nagai, Hideo Optimal strategies for risk-sensitive portfolio optimization problems for general factor models. (English summary) **2004c:91055**

Napp, Clotilde The Dalang-Morton-Willinger theorem under cone constraints. (English summary) **2004g:91075**

— *see also* **Jouini, Elyès, 2004d:91112** *and* **2004j:91135**

Natoli, Vincent D. *see* **Cohen, Morrel H.**

Nicolato, Elisa (*with* Venardos, Emmanouil) Option pricing in stochastic volatility models of the Ornstein-Uhlenbeck type. (English summary) **2004h:91065**

Nicrosini, Oreste *see* **Montagna, Guido et al., 2004h:91063**

Nie, Zan Kan *see* **Zhang, Wei Guo[2], 2004c:91060**

Nielsen, Søren S. (*with* Poulsen, Rolf) A two-factor, stochastic programming model of Danish mortgage-backed securities. (English summary) **2004m:91118**

Ning, Li Juan (*with* Liu, Xin Ping) An option pricing model when the stock pricing process is a jump-diffusion process. (Chinese. English and Chinese summaries)

Novikov, Aleksandr A. (*with* Frishling, V.; Kordzakhia, Nino) Time-dependent barrier options and boundary crossing probabilities. (English summary) **2004g:91076**

Nunes, João Pedro Vidal Multifactor valuation of floating range notes. (English summary) **2004j:91148**

Nuyts, Jean *see* **Alderweireld, Thomas, 2004m:91094**

Oertel, Frank *see* **Korn, Ralf et al., 2004h:91060**

Ogryczak, Włodzimierz *see* **Mansini, Renata et al., 2004k:91115**

Ohnishi, Masamitsu (*with* Tamba, Yasuhiro) Dynamic asset allocation under uncertainty. (English summary)

Oks, Maksim *see* **El Ghaoui, Laurent et al.**

Øksendal, Bernt *see* **Benth, Fred Espen et al., 2004a:91057** *and* **Hu, Yaozhong et al., 2004m:91112**

Osorio, Roberto *see* **Tsallis, Constantino et al.**

Otruba, Susanne *see* **Bodie, Zvi et al., 2004j:91118**

Oustry, Francois *see* **El Ghaoui, Laurent et al.**

Ou Yang, Zi Sheng *see* **Zhao, Xia et al., 2004a:91083**

Owadally, M. Iqbal Pension funding and the actuarial assumption concerning investment returns. (English summary) **2004k:91117**

Özkan, Fehmi *see* **Eberlein, Ernst, 2004a:91065**

Page, Frank H., Jr. *see* **Allouch, Nizar et al., 2004d:91096**

Pagès, Gilles *see* **Bally, Vlad et al., 2004b:91085** *and* **2004f:91071**

Palczewski, Jan Arbitrage and pricing in a general model with flows. (English summary) **2004j:91149**

Pan, De Hui *see* **Yu, Xue Fei et al.**

Papanicolaou, George *see* **Fouque, Jean-Pierre et al., 2004g:91070** *and* **Cotton, Peter et al., 2004k:91102**

Papatheodorou, T. S. *see* **Koulisianis, M. D., 2004j:91137**

Papi, Marco *see* **Sbaraglia, Simone et al., 2004d:91129**

Pastukhov, S. V. On H-volatility in financial mathematics. (Russian)

— *see also* **Kashin, B. S., 2004g:91073**

Pawelzik, Klaus *see* **Rothenstein, R.**

Pellizzari, Paolo *see* **Li Calzi, Marco**

Pelsser, Antoon Pricing and hedging guaranteed annuity options via static option replication. (English summary)

Peng, Da Heng Continuous time models for long run portfolios. (Chinese. English and Chinese summaries)

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Pepelyaeva, T. V. On optimal times for switching between portfolios of securities. (Russian. English and Ukrainian summaries) **2004e:91067**

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Perelló, Josep (*with* Masoliver, Jaume) Option pricing and perfect hedging on correlated stocks. (English summary) **2004m:91119**

Peretti, Alberto On the selection of an efficient portfolio in the mean-variance approach. (English summary)

Pérez Vicente, Conrado J. *see* **Turiel, Antonio, 2004f:91086**

Perla, F. A parallel mathematical software for Asian options pricing. (English summary) **2004c:91056**

Perrakis, Stylianos (*with* Lefoll, Jean) The American put under transactions costs. (English summary) **2004k:91118**

Peskir, Goran A true buyer's risk and classification of options. (English summary) **2004e:91068**

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— (*with* Shorish, J.) Market forces and dynamic asset pricing. (English summary) **2004d:91126**

Peters, R. Th. Nonconvergence in the variation of the hedging strategy of a European call option. (English summary) **2004g:91077**

Petruccione, Francesco *see* **Faller, D., 2004a:91067**

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Pichler, Stefan *see* **Thurner, Stefan et al.**

Picozzi, Sergio *see* **Scafetta, Nicola et al.**

Pictet, Olivier V. *see* **Zumbach, Gilles et al., 2004j:91161**

Pistorius, Martijn R. *see* **Asmussen, Søren et al., 2004m:91096**

Pliska, Stanley R. (*with* Suzuki, Kiyoshi) Optimal tracking for asset allocation with fixed and proportional transaction costs. (English summary) **2004m:91120**

Plum, Michael *see* **Hipp, Christian, 2004f:91076**

Pontier, Monique Why heavy tails in financial series? Estimations and tests. (English summary) **2004i:91093**

Pooe, C. A. (*with* Mahomed, F. M.; Wafo Soh, C.) Invariant solutions of the Black-Scholes equation. (English summary) **2004d:91127**
Pötzelberger, Klaus *see* **Hanke, Michael**, **2004h:91054**
Poulsen, Rolf *see* **Nielsen, Søren S.**, **2004m:91118**
Pratap, Sangeeta Do adjustment costs explain investment-cash flow insensitivity? (English summary) **2004f:91082**
Predota, Martin *see* **Larcher, Gerhard et al.**, **2004h:91061** *and* **Hartinger, Jürgen**
Pressacco, Flavio *see* **Gaudenzi, Marcellino**, **2004c:91050**
Printems, Jacques *see* **Bally, Vlad et al.**, **2004b:91085**
Privault, Nicolas *see* **El-Khatib, Youssef**, **2004k:91105**
Proske, Frank N. *see* **Benth, Fred Espen et al.**, **2004a:91057**
Qi, Chuan Da Nonlinear investment system model with time delay. (Chinese. English and Chinese summaries)
Qi, Huan *see* **Xiao, Heng Hui et al.**, **2004i:91100**
Qian, Shu The application of wavelets in stock market data analysis. (Chinese. English and Chinese summaries)
Qian, Xiao Song Valuation of Asian options in a jump-diffusion model. (Chinese. English and Chinese summaries) **2004j:91150**
— Valuation of exchange options in jump-diffusion models. (Chinese. English and Chinese summaries)
Qian, Yan Ying Optimal decision on portfolio investment under the condition of non short sale. (Chinese. English and Chinese summaries)
Qiu, Wan Hua *see* **Liu, S. et al.**, **2004h:91062** *and* **Liu, Shancun**, **2004k:91113**
Qiu, Wei Yuan *see* **Chen, Jian-Hong et al.**, **2004k:91100**
Rapisarda, Francesco *see* **Brigo, Damiano et al.**
Rásonyi, Miklós Equivalent martingale measures for large financial markets in discrete time. (English summary) **2004j:91151**
Rebonato, Riccardo Interest-rate term-structure pricing models: a review. (English summary) **2004k:91119**
— *see also* **Joshi, Mark S.**
Reikvam, Kristin *see* **Benth, Fred Espen et al.**, **2004a:91056**; **2004k:91097** *and* (**2004a:62014**)
Reisman, Haim Some comments on the APT. (English summary) **2004f:91083**
Ren, Fu-Yao *see* **Wang, Xiao-Tian et al.**, **2004f:91088** *and* **Chen, Jian-Hong et al.**, **2004k:91100**
Ren, Hongliang *see* **Zhu, You-Lan et al.**, **2004e:91073**
Renò, Roberto (*with* Rizza, Rosario) Is volatility lognormal? Evidence from Italian futures. (English summary) **2004d:91128**
— *see also* **Barucci, Emilio et al.**, **2004d:91099**
Rincón-Zapatero, Juan Pablo *see* **Josa-Fombellida, Ricardo**
Rizza, Rosario *see* **Renò, Roberto**, **2004d:91128**
Rodríguez Longarela, Iñaki A simple linear programming approach to gain, loss and asset pricing. (English summary)
Rogers, L. C. G. (*with* Stapleton, E. J.) Utility maximisation with a time lag in trading. (English summary) **2004j:91152**
Rokhlin, D. B. A criterion for the nonexistence of the asymptotic free lunch in a finite-dimensional market under convex portfolio constraints and convex transaction costs. (Russian. Russian summary) **2004g:91078**
Rothenstein, R. (*with* Pawelzik, Klaus) Evolution and anti-evolution in a minimal stock market model. (English summary)
Rousset, Patrick *see* **Maillet, Bertrand**, (**2004m:91008**)
Rubisov, Dmitri H. *see* **Albanese, Claudio et al.**, **2004c:91043**
Runggaldier, Wolfgang J. On stochastic control in finance. (English summary) **2004m:91121**
Rüschendorf, Ludger On upper and lower prices in discrete-time models. (English summary) **2004b:91107**
Ruskin, H. *see* **Sharifi, S. et al.**, **2004m:91124**
Rustem, Berç (*with* Settergren, Reuben) Scenario specification for robust portfolio analysis. (English summary) **2004j:91153**
— *see also* **Gülpınar, Nalan et al.**, **2004j:91130**
Ryan, Peter J. Progressive option bounds from the sequence of concurrently expiring options. (English summary)
Saavedra, Patricia Valuation of an American option as a moving boundary problem. (Spanish. Spanish summary) (*see* **2004k:00016**)
— *see also* **Fernández, Begoña**, **2004a:91068**
Samarov, A. M. *see* **Lauprete, G. J. et al.**, (**2004a:62010**)
Sandow, Sven *see* **Friedman, Craig**, **2004d:91104**
Sanegre, Rafael *see* **MacLean, Leonard C. et al.**, **2004k:91114**
Santacroce, Marina *see* **Mania, Mikhael et al.**, **2004f:91080**
Sarkar, Sudipto The effect of mean reversion on investment under uncertainty. (English summary)
Sartorelli, Giulio *see* **Brigo, Damiano et al.**, **2004a:91060**
Satchell, Stephen *see* **Knight, John L. et al.**, **2004e:91063**
Sayan, Serdar *see* **Turhan-Sayan, Gonul**, **2004j:91157**
Sbaraglia, Simone (*with* Papi, Marco; Briani, M.; Bernaschi, M.; Gozzi, F.) A model for the optimal asset-liability management for insurance companies. (English summary) **2004d:91129**
Scafetta, Nicola (*with* Picozzi, Sergio; West, Bruce J.) An out-of-equilibrium model of the distributions of wealth. (English summary)
Scagnellato, Caterina (*with* Vargiolu, Tiziano) Explicit solutions for shortfall risk minimization in multinomial models. **2004d:91130**
Scaillet, O. Nonparametric estimation and sensitivity analysis of expected shortfall. (English summary)
Schachermayer, Walter Introduction to the mathematics of financial markets. (English summary) **2004i:91094**
— *see also* **Kramkov, D.**, **2004j:91138** *and* **Delbaen, Freddy**
Schäfer, Dominik When should we be prepared to improve a portfolio by lacklustre stocks?—a note on log-optimal portfolio selection. (English summary) **2004i:91095**
Schäl, Manfred *see* **Korn, Ralf et al.**, **2004h:91060**
Schenk-Hoppé, Klaus Reiner *see* **Dempster, M. A. H. et al.**, **2004j:91125**
Schianchi, A. (*with* Bongini, L.; Degli Esposti, Mirko; Giardinà, Cristian) Multiple optimal solutions in the portfolio selection model with short-selling. (English summary) **2004i:91096**
Schied, Alexander *see* **Föllmer, Hans**, **2004h:91051**
Schipper, S. (*with* Schmid, Wolfgang P.) Control charts for GARCH processes. (English summary) **2004f:91084**
Schmid, Olivier A multistage stochastic optimization model for the cash management problem. (English summary) **2004j:91154**
Schmid, Wolfgang P. *see* **Schipper, S.**, **2004f:91084**
Schmidt, Anatoly B. The true invariant of an arbitrage free portfolio. (English summary) **2004a:91080**
Schmidt, Rafael *see* **Bingham, N. H. et al.**, **2004j:91117**
Schoutens, Wim (*with* Studer, Michael) Short-term risk management using stochastic Taylor expansions under Lévy models. (English summary) **2004g:91079**
— (*with* Symens, Stijn) The pricing of exotic options by Monte-Carlo simulations in a Lévy market with stochastic volatility. (English summary) **2004j:91155**
Schroder, Mark Douglas (*with* Skiadas, Costis) Optimal lifetime consumption-portfolio strategies under trading constraints and generalized recursive preferences. (English summary) **2004i:91097**
Schumacher, J. M. Control and financial engineering. (English summary) **2004m:91122**
Schürger, Klaus *see* **Evstigneev, Igor V. et al.**, **2004m:91107**
Scotti, Rita *see* **Brigo, Damiano et al.**
Sepp, Artur Analytical pricing of double-barrier options under a double-exponential jump diffusion process: applications of Laplace transform. (English summary) **2004m:91123**
Serguieva, Antoaneta (*with* Hunter, John) Fuzzy interval methods in investment risk appraisal. (English summary) **2004k:91120**
Settergren, Reuben *see* **Gülpınar, Nalan et al.**, **2004j:91130** *and* **Rustem, Berç**, **2004j:91153**
Sever, Ali A stability estimate of an inverse problem in financial prospection. (English summary) **2004k:91121**
Shackleton, Mark B. *see* **Chang, Chuang-Chang et al.**
Shamaie, A. *see* **Sharifi, S. et al.**, **2004m:91124**
Sharifi, S. (*with* Crane, Martin; Shamaie, A.; Ruskin, H.) Random matrix theory for portfolio optimization: a stability approach. (English summary) **2004m:91124**
Sheng, Hui-Li (*with* Ma, He-Ping) Evaluation of double average asian options by the Legendre spectral method. (English summary)
Shephard, Neil *see* **Barndorff-Nielsen, Ole E.**, **2004d:91098**
Shetty, Bala *see* **Mulvey, John M.**, **2004h:91064**
Shi, Ke *see* **Li, Zhi-ming**
Shi, Shu Zhong (*with* Yang, Jie) Efficient subset for portfolio selection without short selling. (Chinese. English and Chinese summaries) **2004i:91098**
Shinohara, Toshio *see* **Kimura, Toshikazu**
Shiryaev, Albert N. *see* **Peskir, Goran**, **2004a:91079**
Shoji, Isao *see* **Takamizawa, Hideyuki**
Shorish, J. *see* **Peskir, Goran**, **2004d:91126**
Shreve, Steven E. *see* **Janeček, Karel**, **2004m:91113**
Simchi, Mohamadreza *see* **Lari-Lavassani, Ali et al.**, **2004d:91117**
Simsek, Koray D. *see* **Mulvey, John M.**, **2004j:91146**
Sircar, K. Ronnie *see* **Fouque, Jean-Pierre et al.**, **2004g:91070**; **Jonsson, Mattias**, **2004j:91134** *and* **Cotton, Peter et al.**, **2004k:91102**
Skiadas, Costis *see* **Schroder, Mark Douglas**, **2004i:91097**
Solna, Knut *see* **Fouque, Jean-Pierre et al.**, **2004g:91070**
Song, Xuefeng *see* **You, Chen et al.**, **2004m:91128**
Sornette, Didier *see* **Malevergne, Y.**, **2004f:91079** *and* **Zhou, Wei Xing**
Sorwar, Ghulam *see* **Barone-Adesi, Giovanni**, **2004j:91115**
Speranza, Maria Grazia *see* **Chiodi, Luca et al.**, **2004k:91101** *and* **Mansini, Renata et al.**, **2004k:91115**
Speth, J. *see* **Kwapień, J. et al.**
Spinler, Stefan (*with* Huchzermeier, Arnd; Kleindorfer, Paul) Risk hedging via options contracts for physical delivery. (English summary) **2004g:91080**
Srikant, Marakani *see* **Baaquie, Belal E. et al.**, **2004e:91059** *and* **2004m:91098**
Stanislavskiĭ, A. A. Black-Scholes model under subordination. (English summary) **2004a:91081**
Stapleton, E. J. *see* **Rogers, L. C. G.**, **2004j:91152**
Stapleton, Richard C. *see* **Franke, Günter et al.**, **2004j:91127**
Steblovskaya, V. *see* **Al'beverio, S. A.**, **2004c:91044**
Stella, Fabio *see* **Gaĭvoronskiĭ, A. A.**, **2004b:91099**
Stenbacka, Rune *see* **Alvarez, Luis H. R.**, **2004m:91095**
Stredulinsky, Edward *see* **Laurence, Peter**, **2004f:91078**
Studer, Michael *see* **Schoutens, Wim**, **2004g:91079**
Stumpf, S. *see* **Mèndez, O.**
Subrahmanyam, Marti G. *see* **Franke, Günter et al.**, **2004j:91127**
Sulem, Agnès *see* **Hu, Yaozhong et al.**, **2004m:91112**
Sun, Yeneng *see* **Khan, M. Ali**, **2004g:91074** *and* **2004h:91059**
Suzuki, Kiyoshi *see* **Pliska, Stanley R.**, **2004m:91120**
Symens, Stijn *see* **Schoutens, Wim**, **2004j:91155**
Tabak, Benjamin M. *see* **Cajueiro, Daniel O.**
Takahashi, Akihiko (*with* Yoshida, Nakahiro) An asymptotic expansion scheme for optimal investment problems. (English summary)
— *see also* **Kunitomo, Naoto**, **2004e:91065**
Takamizawa, Hideyuki (*with* Shoji, Isao) Modeling the term structure of interest rates with general short-rate models. (English summary)
— (*with* Shoji, Isao) On the accuracy of the local linear approximation for the term structure of interest rates. (English summary)
Taksar, Michael I. *see* **Evstigneev, Igor V. et al.**, **2004m:91107**
Tallon, Jean-Marc *see* **Mukerji, Sujoy**, **2004f:91081**
Tamba, Yasuhiro *see* **Ohnishi, Masamitsu**
Tamura, Tsutomu The effect of randomized low discrepancy sequences in option pricing. (Japanese. English and Japanese summaries) **2004c:91057**
Tan, Ken Seng *see* **Boyle, Phelim P. et al.**, **2004d:91100**
Tasche, Dirk Expected shortfall and beyond. (English summary) **2004g:91081**

Terceño Gómez, Antonio (*with* de Andrés Sánchez, Jorge; Barberà, Glòria; Lorenzana, Tomás) Using fuzzy set theory to analyse investments and select portfolios of tangible investments in uncertain environments. (English summary) **2004d:91131**
— *see also* **de Andrés Sánchez, Jorge**, **2004k:91093**
Tessitore, Gianmario (*with* Zabczyk, Jerzy) Pricing options for Markovian models. (English summary) (*see* **2004b:60005**)
Tevzadze, Revaz *see* **Mania, Mikhael et al.**, **2004d:91120** *and* **2004f:91080**
Thalmaier, Anton *see* **Barucci, Emilio et al.**, **2004d:91099**
Thierbach, F. Mean-variance hedging under additional market information. (English summary) **2004f:91085**
Thomann, Enrique (*with* Waymire, Edward C.) Contingent claims on assets with conversion costs. (English summary) **2004b:91108**
Thompson, John L. *see* **Laws, Jason**
Thurner, Stefan (*with* Hanel, Rudolf; Pichler, Stefan) Risk trading, network topology and banking regulation. (English summary)
Tian, Rong (*with* Chai, Jun) Applications of the equivalent martingale measures model in pricing option on foreign currency. (Chinese. English and Chinese summaries)
Tian, Weidong *see* **Detemple, Jérôme B. et al.**, **2004e:91061**
Tichy, Robert F. *see* **Larcher, Gerhard et al.**, **2004h:91061**
Tolmasky, Carlos *see* **Forzani, Liliana**, **2004d:91103**
Torres, Soledad *see* **Galea Rojas, Manuel et al.**, **2004k:91107**
Torricelli, Costanza *see* **Muzzioli, Silvia**, **2004j:91147**
Trojani, Fabio (*with* Vanini, Paolo) A review of perturbative approaches for robust optimal portfolio problems. (English summary) **2004j:91156**
— *see also* **Leippold, Markus et al.**, **2004j:91139**
Tsallis, Constantino (*with* Anteneodo, Celia; Borland, Lisa; Osorio, Roberto) Nonextensive statistical mechanics and economics. (English summary)
Tse, Y. K. *see* **Lien, Da-Hsiang Donald**, (**2004j:62007**)
Tsionas, Efthymios G. Exact solution of asset pricing models with arbitrary shock distributions. (English summary) **2004a:91082**
Tsoi, Allanus H. *see* **Elliott, Robert J. et al.**, **2004b:91096**
Turhan-Sayan, Gonul (*with* Sayan, Serdar) Use of time-frequency representations in the analysis of stock market data. (English summary) **2004j:91157**
Turiel, Antonio (*with* Pérez Vicente, Conrado J.) Multifractal geometry in stock market time series. (English summary) **2004f:91086**
Turkington, D. A. *see* **Maller, R. A.**, **2004a:91078**
Tutubalin, V. N. Comparison of certain models and results of stochastic financial mathematics with real data. (Russian. Russian summary) **2004c:91058**
Valkeïla, È. *see* **Mishura, Yuliya S.**, **2004k:91116**
Valls Martinez, María Del Carmen *see* **Cruz Rambaud, Salvador**
Vander Vennet, Rudi *see* **Annaert, Jan et al.**
Vanduffel, S. (*with* Dhaene, Jan; Goovaerts, Marc J.; Kaas, Rob) The hurdle-race problem. (English summary)
Vanini, Paolo *see* **Leippold, Markus et al.**, **2004j:91139** *and* **Trojani, Fabio**, **2004j:91156**
Vanmaele, M. *see* **Deelstra, Griselda et al.**, **2004k:91103**
Vargiolu, Tiziano *see* **Scagnellato, Caterina**, **2004d:91130**
Vayanos, Dimitri The decentralization of information processing in the presence of interactions. (English summary)
Vempala, Santosh *see* **Kalai, Adam**, **2004h:91057**
Venardos, Emmanouil *see* **Nicolato, Elisa**, **2004h:91065**
Verhoeven, Peter (*with* McAleer, Michael) Fat tails and asymmetry in financial volatility models. (English summary)
Verleysen, Michel *see* **Lendasse, Amaury et al.**, (**2004m:91008**)
Veronesi, Pietro The peso problem hypothesis and stock market returns. (English summary) **2004g:91082**
— *see also* **Barlevy, Gadi**, **2004d:91097**
Vetzal, K. R. *see* **Windcliff, H. et al.**, (**2004h:91006**)
Vigna, Elena *see* **Haberman, Steven**, **2004b:91100**
Villa, Christophe *see* **Moraux, Franck**, (**2004m:91008**)
Villaverde, M. *see* **Dempster, M. A. H. et al.**, (**2004j:90007**)
Villeneuve, Stéphane *see* **Lamberton, Damien**, **2004d:91116**
Vinter, Richard B. (*with* Zheng, Harry H.) Some finance problems solved with nonsmooth optimization techniques. (English summary) **2004i:91099**
Voit, Johannes From Brownian motion to operational risk: statistical physics and financial markets. (English summary) **2004h:91066**
Vollert, Alexander ★ A stochastic control framework for real options in strategic evaluation. **2004f:91087**
Wachter, Jessica A. Risk aversion and allocation to long-term bonds. (English summary) **2004h:91067**
Wafo Soh, C. *see* **Pooe, C. A. et al.**, **2004d:91127**
Wagner, Friedrich Volatility cluster and herding. (English summary) **2004d:91132**
Walter, Stephan *see* **Bodie, Zvi et al.**, **2004j:91118**
Wang, Bao He (*with* Li, Shi Yin) Pricing the derivatives with credit risk of allowing default before maturity. (Chinese. English and Chinese summaries)
Wang, Bing Hong[1] *see* **Wei, Yi-ming et al.**, **2004f:91089**
Wang, Feng (*with* Xu, Xiao Ping; Zhao, Wei) European option pricing driven by the combination of Brownian motion and Poisson process. (Chinese. English and Chinese summaries)
Wang, Guoqiang *see* **Knight, John L. et al.**, **2004e:91063**
Wang, Jin Yu[1] *see* **Yu, Xue Fei et al.**
Wang, Li Jun *see* **Jiang, Li-shang et al.**, **2004j:91133**
Wang, Shou Yang *see* **Li, Zhong-Fei et al.**, **2004a:91076**; **Liu, S. et al.**, **2004h:91062** *and* **Zhang, Shunming et al.**, **2004i:91104**
Wang, Tao The benefits of portfolio diversification with transaction costs reconsidered. (Chinese. English and Chinese summaries)
Wang, Xian Yu *see* **Luo, Qiang**
Wang, Xiao-Tian (*with* Ren, Fu-Yao; Liang, Xiang Qian) A fractional version of the Merton model. (English summary) **2004f:91088**
Wang, Yang *see* **Chen, Zhi Ping et al.**, **2004c:91047**
Wang, Yuan Pei The pricing analysis of irredeemable convertible bonds. (Chinese. English and Chinese summaries) **2004k:91122**
Warachka, Mitch C. *see* **Baaquie, Belal E. et al.**, **2004e:91059**
Ware, Antony *see* **Lari-Lavassani, Ali et al.**, **2004d:91117**
Watada, Junzo *see* **Watanabe, Teruyuki**
Watanabe, Teruyuki (*with* Watada, Junzo) A meta-controlled Boltzmann machine for rebalancing portfolio selection. (English summary)
Waymire, Edward C. *see* **Thomann, Enrique**, **2004b:91108**
Webber, Nick *see* **Këllezi, Evis**
Wee, In-Suk Error estimates for option prices in jump-diffusion models. (English summary) **2004b:91109**
Wei, Gang[1] *see* **Wu, Zhen**
Wei, Yi-ming (*with* Ying, Shang-jun; Fan, Ying[4]; Wang, Bing Hong[1]) The cellular automaton model of investment behavior in the stock market. (English summary) **2004f:91089**
Weisshaupt, Heinz Insuring against the shortfall risk associated with real options. (English summary) **2004h:91068**
Welsch, R. E. *see* **Lauprete, G. J. et al.**, (**2004a:62010**)
Weron, Aleksander *see* **Burnecki, Krzysztof et al.**
Weron, Rafał Pricing European options on instruments with a constant dividend yield: the randomized discrete-time approach. (English summary) **2004g:91083**
— *see also* **Broszkiewicz-Suwaj, E. et al.**
Wertz, Vincent *see* **Lendasse, Amaury et al.**, (**2004m:91008**)
West, Bruce J. *see* **Scafetta, Nicola et al.**
Wets, Roger J.-B. *see* **Bianchi, Stephen W. et al.**, **2004k:91098**
Wielhouwer, Jacco L. On the steady state of the replicating portfolio: accounting for a growth rate. (English summary) **2004h:91069**
Wilson, Bonnie *see* **Krebs, Tom**, **2004f:91077**
Windcliff, H. (*with* Forsyth, P. A.; Vetzal, K. R.; Morland, W. J.) Simulations for hedging financial contracts with optimal decisions. (*see* **2004h:91006**)
Wong, Hoi Ying (*with* Kwok, Yue Kuen) Jump diffusion models for risky debts: quality spread differentials. (English summary)
Wong, Kit Pong Forward markets and the behaviour of the competitive firm with production flexibility. (English summary) **2004m:91125**
Wu, Chong-feng *see* **Ying, Yi-rong et al.**, **2004e:91072**
Wu, Ho-mou (*with* Guo, Wen-Chung) Speculative trading with rational beliefs and endogenous uncertainty. (English summary) **2004h:91070**
Wu, Lixin[2] *see* **Yu, Hong et al.**, **2004c:91059**
Wu, Rong[1] *see* **Chen, Dian Fa**, **2004b:91090**
Wu, Rongwen (*with* Fu, Michael C.) Optimal exercise policies and simulation-based valuation for American-Asian options. (English summary) **2004b:91110**
Wu, Zhen (*with* Wei, Gang[1]) One kind of optimal international security investment portfolio and consumption choice problem. (English and Chinese summaries)
Wyłomańska, A. *see* **Broszkiewicz-Suwaj, E. et al.**
Xia, Jian-ming Dividing gains between a client and her agent. (English summary) **2004b:91111**
— (*with* Yan, Jia-An) A new look at some basic concepts in arbitrage pricing theory. (English summary) **2004j:91158**
— Multi-agent investment in incomplete markets. (English summary) **2004m:91126**
Xiao, Heng Hui (*with* Qi, Huan; Yang, Ming) Valuation of continuous investment strategies of the two-phase R&D project. (Chinese. English and Chinese summaries)
— (*with* Qi, Huan; Yang, Ming) The valuation of investment strategies under regulation. (Chinese. English and Chinese summaries) **2004i:91100**
Xiao, Zheng Yan (*with* Xu, Xu-song) Optimal portfolio rules with habit formation and preference for wealth. (English summary) **2004m:91127**
Xiong, De Wen (*with* Ye, Zhong Xing) Optimal utility with "side information" and its effect. (Chinese. English and Chinese summaries)
Xu, Bao Hua *see* **Li, Xiao Ai et al.**
Xu, Cheng Xian *see* **Xue, Hong-gang et al.**, **2004j:91159**
Xu, Hanping *see* **Zhu, You-Lan et al.**, **2004c:91073**
Xu, Ping *see* **Liao, Chang-gao et al.**, **2004c:91052**
Xu, Xiao Ping *see* **Wang, Feng et al.**
Xu, Xu-song *see* **Xiao, Zheng Yan**, **2004m:91127**
Xu, Zhaoxia (*with* Gençay, Ramazan) Scaling, self-similarity and multifractality in FX markets. (English summary) **2004d:91133**
Xue, Hong[1] A multi-dimensional Black-Scholes model on foreign stock options. (Chinese. English and Chinese summaries)
Xue, Hong-gang (*with* Xu, Cheng Xian; Guo, Wen-yan; Miao, Bao-shan) Portfolio's sensitivity analysis with riskless asset. (English and Chinese summaries) **2004j:91159**
Yakovenko, Victor M. *see* **Drăgulescu, Adrian D.**, **2004b:91095a**; **2004b:91095b** *and* **Errata: "Probability distribution of returns in the Heston model with stochastic volatility"**, **2004b:91095b**
Yan, Hai Feng (*with* Liu, San Yang) New method to option pricing for the general Black-Scholes model—an actuarial approach. (Chinese. English and Chinese summaries) **2004h:91071**
— (*with* Liu, San Yang) Pricing options on stocks driven by Poisson jump diffusion processes. (Chinese. English and Chinese summaries)
Yan, Jia-An *see* **Xia, Jian-ming**, **2004j:91158**
Yang, Chang Fan The hedging strategy of arithmetic Asian options. (Chinese. English and Chinese summaries)
Yang, De Sheng European contingent claim pricing with two kinds of transaction costs. (Chinese. English and Chinese summaries)
— *see also* **Jiang, Li-shang et al.**, **2004k:91109**
Yang, Hongtao *see* **Allegretto, Walter et al.**, (**2004h:00025**)
Yang, Jie *see* **Shi, Shu Zhong**, **2004i:91098**
Yang, Liming *see* **Bianchi, Stephen W. et al.**, **2004k:91098**
Yang, Liu (*with* Liu, Shu Ren) A new method for portfolio selection models. (Chinese. English and Chinese summaries)
Yang, Ming (*with* Li, Chu Lin) Valuing investment project in competitive environment. (English summary) **2004i:91101**

— (*with* Li, Chu Lin) Encouraging foreign direct investment by joint ventures. (Chinese. English and Chinese summaries) **2004d:91134**
— *see also* **Xiao, Heng Hui et al., 2004i:91100** *and* **Li, Qi Cai**
Yang, W. *see* **Allen, David Edmund**
Yang, Xiang Qun *see* **Liu, Shao Yue**
Yang, Zhao Jun (*with* Zou, Jie Zhong) The hedging strategy of an Asian option. (English summary) **2004i:91102**
— (*with* Huang, Li Hong; Ma, Chaoqun) Explicit expressions for the valuation and hedging of the arithmetic Asian option. (English summary) **2004h:91072**
Ye, Jin Chun *see* **Zhang, Cui Lan, 2004m:91129**
Ye, Jun[2] *see* **Chu, Yun Hao**
Ye, Zhong Xing *see* **Lin, Jian Zhong[1], 2004k:91112** *and* **Xiong, De Wen**
Yin, Gang George (*with* Zhang, Qing[1]; Yin, Kewen) Constrained stochastic estimation algorithms for a class of hybrid stock market models. (English summary) **2004c:91071**
— *see also* **Zhou, Xun Yu, 2004m:91130**
Yin, Kewen *see* **Yin, Gang George et al., 2004e:91071**
Ying, Shang-jun *see* **Wei, Yi-ming et al., 2004f:91089**
Ying, Yi-rong (*with* Lin, Yi[3]; Wu, Chong-feng) On stochastic optimal control for stock price volatility. (English summary) **2004e:91072**
Yoshida, Nakahiro *see* **Takahashi, Akihiko**
Yoshida, Yuji A discrete-time model of American put option in an uncertain environment. (English summary)
You, Chen (*with* Zhang, Xinmin; Song, Xuefeng) A study on the chaos model of liquidity in stock market. (English summary) **2004m:91128**
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Yu, Xue Fei (*with* Wang, Jin Yu[1]; Pan, De Hui) Application of non-parameter interval estimation to investment in securities. (Chinese. English and Chinese summaries)
Yuan, George Xian-Zhi The numerical solutions of American options by using interior point method. (English summary) **2004j:91160**
Yuan, Xiao-ling *see* **Chen, Zhi Ping et al., 2004c:91047**
Zabczyk, Jerzy *see* **Tessitore, Gianmario, (2004b:60005)**
Zapart, Christopher A. Beyond Black-Scholes: a neural networks-based approach to options pricing. (English summary)
Zapatero, Fernando *see* **Cvitanić, Jakša et al., 2004j:91124**
Zeng, Qi *see* **Brandt, Michael W. et al.**
Zeng, Yong[1] A partially observed model for micromovement of asset prices with Bayes estimation via filtering. (English summary) **2004d:91135**
Zenios, Stavros A. *see* **Beltratti, Andrea et al.**
Zhan, Hui Rong (*with* Cheng, Qian Sheng) A new multiple control variate estimator for Asian options. (Chinese. English and Chinese summaries)
Zhang, Cheng (*with* In, Francis; Farley, Alan) A multiscaling test of causality effects among international stock markets. (English summary)
Zhang, Chu Underpricing of initial public offerings: a cooperative game theoretic approach. (English and Chinese summaries) **2004i:91103**
Zhang, Cui Lan (*with* Ye, Jin Chun) Option pricing problems when stock price returns have hyperbolic distribution. (Chinese. English and Chinese summaries) **2004m:91129**
Zhang, Jianfeng *see* **Cvitanić, Jakša et al., 2004g:91067**
Zhang, Jin E. *see* **Jiang, Li-shang et al., 2004j:91133**
Zhang, Lu[1] *see* **Brandt, Michael W. et al.**
Zhang, Ming-Heng (*with* Cheng, Qian Sheng) Gaussian mixture modelling to detect random walks in capital markets. (English summary)
Zhang, Pan Ming *see* **Liu, Tang**
Zhang, Qing[1] *see* **Yin, Gang George et al., 2004e:91071**
Zhang, Shuguang *see* **Jiang, Li-shang et al., 2004k:91109**
Zhang, Shunming (*with* Wang, Shou Yang; Deng, Xiao-Tie) Portfolio selection theory with different interest rates for borrowing and lending. (English summary) **2004i:91104**
Zhang, Tie (*with* Li, Ming Hui) Difference methods for solving stock option pricing problems. (Chinese. English and Chinese summaries)
Zhang, Wei Guo[2] (*with* Nie, Zan Kan) Research of efficient portfolio of risky securities with lower bound. (Chinese. English and Chinese summaries) **2004c:91060**
— (*with* Nie, Zan Kan) Efficient portfolio set with nonnegative investment proportions constraints and its dynamic analysis. (Chinese. English and Chinese summaries)
Zhang, Xinmin *see* **You, Chen et al., 2004m:91128**
Zhao, Cai-e *see* **Chen, Zhi Ping, 2004j:91122**
Zhao, Wei *see* **Wang, Feng et al.**
Zhao, Xia (*with* Liu, Jin E; Ou Yang, Zi Sheng) The application of the martingale approach in a class of ruin theory. (Chinese. English and Chinese summaries) **2004a:91083**
Zhao, Yonggan (*with* Haussmann, Ulrich; Ziemba, William T.) A dynamic investment model with control on the portfolio's worst case outcome. (English summary) **2004h:91073**
— *see also* **MacLean, Leonard C. et al., 2004k:91114**
Zheng, Harry H. *see* **Vinter, Richard B., 2004i:91099**
Zhou, Wei Xing (*with* Sornette, Didier) Evidence of a worldwide stock market log-periodic anti-bubble since mid-2000. (English summary)
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Zhou, Xun Yu (*with* Yin, Gang George) Markowitz's mean-variance portfolio selection with regime switching: a continuous-time model. (English summary) **2004m:91130**
Zhu, You-Lan (*with* Chen, Bing Mu; Ren, Hongliang; Xu, Hanping) Application of the singularity-separating method to American exotic option pricing. (English summary) **2004e:91073**
— (*with* Li, Jinliang) Multi-factor financial derivatives on finite domains. (English summary) **2004c:91061**
Zhu, Yun Min *see* **Kennedy, N. L., 2004m:91115**
Ziemba, William T. *see* **Zhao, Yonggan et al., 2004h:91073** *and* **MacLean, Leonard C. et al., 2004k:91114**
Žitković, Gordan *see* **Karatzas, Ioannis, 2004h:91058**
Zou, Jie Zhong *see* **Yang, Zhao Jun, 2004i:91102; Chen, Chao[1] et al., 2004j:91121** *and* **Li, Xiao Ai et al.**
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Items with secondary classifications in 91B28

de Abreu Sá, Leonardo *see* **Ramos, Fernando M. et al., 2004d:82036**
Agliari, Anna Global bifurcations in the basins of attraction in noninvertible maps and economic applications. (English summary) **2004c:37108**
Aït-Sahalia, Yacine Maximum likelihood estimation of discretely sampled diffusions: a closed-form approximation approach. (English summary) **2004c:62172**
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Albrecher, Hansjörg (*with* Predota, Martin) Bounds and approximations for discrete Asian options in a variance-gamma model. (English summary) (*see* **2004a:62012**)
— (*with* Hartinger, Jürgen; Tichy, Robert F.) Multivariate approximation methods for the pricing of catastrophe-linked bonds. (English summary)
Al-Eideh, Basel M. (*with* Al-Refai, Ahmad S. A.; Sbeiti, Wafaa M.) Modelling the CPI using a lognormal diffusion process and implications on forecasting inflation. (English summary)
Aliprantis, Charalambos D. (*with* Monteiro, Paulo K.; Tourky, Rabee) Non-marketed options, non-existence of equilibria, and non-linear prices. (English summary) **2004k:91079**
Allegretto, Walter (*with* Lin, Yan-ping; Yang, Hongtao) Numerical pricing of American put options on zero-coupon bonds. (English summary) **2004f:65111**
Allen, Edward J. *see* **Severino, J. S. et al., 2004i:65006**
Allouch, Nizar (*with* Florenzano, Monique) Edgeworth and Walras equilibria of an arbitrage-free exchange economy. (English summary) **2004j:91018**
Alobaidi, Ghada (*with* Mallier, Roland) American lock-in options close to expiry. (English summary) **2004m:35032**
Al-Refai, Ahmad S. A. *see* **Al-Eideh, Basel M. et al.**
Al-Zanaidi, M. A. *see* **Chawla, M. M. et al.**
Amster, P. (*with* Averbuj, C. G.; Mariani, María Cristina) Stationary solutions for two nonlinear Black-Scholes type equations. (English summary) **2004k:35176**
Anderson, Robert M. (*with* Zame, William R.) Genericity with infinitely many parameters. (English summary) **2004g:91038**
Ang, James S. *see* **Zhang, Shaojun et al., 2004j:62215**
Angel, Omer (*with* Benjamini, Itai; Virág, Bálint) Random walks that avoid their past convex hull. (English summary) **2004f:60201**
Angulo, J. M. *see* **Fernández-Pascual, R. et al., 2004g:62150**
Anh, V. V. (*with* Leonenko, N. N.; Nguyen, C. N.) Stochastic differential equations with fractional Riesz-Bessel motion input. (English summary) **2004e:60091**
Araújo, Tanya *see* **Vilela Mendes, Rui et al., 2004d:91093**
Aven, Terje ★ Foundations of risk analysis. **2004k:62254**
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Klüppelberg, Claudia *see* **Jaschke, Stefan et al.**, **2004k:62046**

Koenker, Roger *see* **Bassett, Gilbert W., Jr. et al.**, **2004f:62196**

Kohatsu-Higa, Arturo *see* **Gobet, Emmanuel**, **2004d:60140**

Kohlmann, Michael (*with* Tang, Shanjian) Minimization of risk and linear quadratic optimal control theory. (English summary) **2004f:93138**

Konno, Hiroshi (*with* Yamamoto, Rei) Minimal concave cost rebalance of a portfolio to the efficient frontier. (English summary) **2004g:90100**

Kordas, Gregory *see* **Bassett, Gilbert W., Jr. et al., 2004f:62196**
Korf, Lisa A. Stochastic programming duality: $\mathcal{L}^\infty$ multipliers for unbounded constraints with an application to mathematical finance. (English summary) **2004k:90084**
Kou, S. C. (*with* Kou, S. G.) Modeling growth stocks via birth-death processes. (English summary) **2004f:60181**
Kou, S. G. (*with* Wang, Hui[4]) First passage times of a jump diffusion process. (English summary) **2004e:60141**
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Koulisianis, M. D. (*with* Papatheodorou, T. S.) Improving projected successive overrelaxation method for linear complementarity problems. (English summary) **2004c:90076**
Koutsougeras, Leonidas C. (*with* Papadopoulos, Konstantinos G.) Arbitrage and equilibrium in strategic security markets. (English summary) **2004k:91087**
Kruk, Łukasz Limiting distributions for minimum relative entropy calibration. (English summary) **2004m:60067**
Kryazhimskii, Arkadii V. *see* **Klaassen, Ger et al., 2004j:91067**
Kubler, Felix (*with* Schmedders, Karl) Generic inefficiency of equilibria in the general equilibrium model with incomplete asset markets and infinite time. (English summary) **2004e:91084**
Kukla, Grzegorz *see* **Burnecki, Krzysztof, 2004k:62244**
Kukush, A. G. *see* **Jönsson, H. et al.**
Kulperger, Reg *see* **Chen, Zeng Jing et al., 2004k:60162** *and* **2004k:60163**
Kwek, Kian Teng *see* **Hughes, Anthony W. et al.**
Kyprianou, Andreas E. (*with* Pistorius, Martijn R.) Perpetual options and Canadization through fluctuation theory. (English summary) **2004f:60096**
Lai, Min (*with* Zhao, Shi Shun; Song, Li Xin[1]) The equivalence property of return-risk models. (Chinese. English and Chinese summaries) **2004i:91110**
Lanconelli, Ermanno (*with* Pascucci, Andrea; Polidoro, Sergio) Linear and nonlinear ultraparabolic equations of Kolmogorov type arising in diffusion theory and in finance. (English summary) **2004c:35238**
Lang, Bruno *see* **Bischof, Christian H. et al., 2004m:65030**
Langer, Andreas Gregor *see* **Herzberger, Jürgen, 2004h:65045**
(Langtangen, Hans Petter) *see* **Advanced topics in computational partial differential equations, 2004k:65003**
Lapied, André *see* **Chateauneuf, Alain et al., 2004c:91034** *and* **De Waegenaere, Anja et al., 2004e:91075**
Lawrence, Richard D. A machine-learning approach to optimal bid pricing. (English summary) (*see* **2004b:90006**)
Lazrak, Ali (*with* Quenez, Marie Claire) A generalized stochastic differential utility. (English summary) **2004c:60176**
Leobacher, Gunther (*with* Pillichshammer, Friedrich) A method for approximate inversion of the hyperbolic CDF. (English summary) **2004b:65011**
Leonenko, N. N. *see* **Anh, V. V. et al., 2004e:60091**
Levental, Shlomo *see* **Jakubėnas, Paulius et al., 2004a:60121**
Li, Cai Ping *see* **Li, Yin Xing, 2004e:62026**
Li, Chu Lin *see* **Xue, Minggao**
Li, Duan (*with* Qian, Fu Cai; Fu, Peilin) Variance minimization in stochastic systems. **2004b:93140**
Li, Ping[8] (*with* Xia, Jian-ming) Minimal martingale measures for discrete-time incomplete financial markets. (English summary) **2004j:60074**
Li, Yin Xing (*with* Li, Cai Ping) Probability criterion with admissible portfolio. (Chinese. English and Chinese summaries) **2004e:62026**
Li, Zhi-cheng *see* **Che, Ka-jia**
Lian, Song Zhe *see* **Wang, Guang Lie, 2004h:35110**
Liang, Yan Chun (*with* Sun, Yan Feng) An improved method of support vector machine and its applications to financial time series forecasting. (English summary) **2004g:62016**
von Lieres und Wilkau, Carsten *see* **Dette, Holger, 2004d:62172**
Lin, Chin-Tsai (*with* Wu, Cheng-Ru) Batch process and transfer decisions in foreign market: a real options model. (English summary) **2004c:91041**
Lin, Shih-Kuei *see* **Fuh, Cheng-Der et al., 2004j:62175**
Lin, Yan-ping *see* **Allegretto, Walter et al., 2004f:65111**
Lin, Yuanlie (*with* Filar, Jerzy A.; Liu, Ke[1]) Finite horizon portfolio risk models with probability criterion. (English summary) **2004i:91112**
Lindner, Alexander *see* **Jaschke, Stefan et al., 2004k:62046**
Liu, Guo Xiang[2] The statistical basics of technical analysis of financial markets. (Chinese. English and Chinese summaries)
Liu, Ke[1] *see* **Lin, Yuanlie et al., 2004i:91112**
Liu, Yazeng (*with* Peng, Shige) Determination of a controllable set for a class of non-linear stochastic control systems. (English summary) **2004d:93129**
London, M. D. (*with* Evans, A. K.; Turner, Martin J.) Why study financial time series? (English summary) **2004h:62159**
Long, Steven R. *see* **Huang, Norden E. et al.**
Loubergé, Henri (*with* Villeneuve, Stéphane; Chesney, Marc) Long-term risk management of nuclear waste: a real options approach. (English summary) **2004d:91188**
Louçã, Francisco *see* **Vilela Mendes, Rui et al., 2004d:91093**
Luger, Richard *see* **Garcia, René et al., 2004g:60105**
Lukkarinen, Jani *see* **Tanskanen, Antti Juho, 2004i:91115**
Lynn, Nicholas James The price of failure. (English summary)
Magill, Michael (*with* Quinzii, Martine) Capital market equilibrium with moral hazard. (English summary) **2004a:91091**
— (*with* Quinzii, Martine) Nonshiftable capital, affine price expectations and convergence to the Golden Rule. (English summary) **2004h:91096**
Malevergne, Y. (*with* Sornette, Didier) Value-at-risk-efficient portfolios for a class of super- and sub-exponentially decaying assets return distributions. (English summary) **2004m:62226**
Mallier, Roland *see* **Alobaidi, Ghada, 2004m:35032**
Mancini, C. Uniqueness of the solution to a difference-partial differential equation for finance. (English summary) **2004h:60098**
Mangino, Elisabetta M. A positive approximation sequence related to Black and Scholes equation. (English summary) **2004d:35096**
(Marcet, A.) *see* **Computing in economics and finance**
Marcozzi, Michael D. On the valuation of Asian options by variational methods. (English summary) **2004d:60105**
— *see also* **Choi, Seungmook S.**
Maréchal, P. *see* **Borwein, Jonathan M. et al., 2004m:90112**
Mariani, María Cristina *see* **Amster, P. et al., 2004k:35176**
(Marti, Kurt) *see* **Dynamic stochastic optimization, 2004j:90007**
Maskawa, Jun-ichi Ordered phase and non-equilibrium fluctuation in stock market. (English summary) **2004a:82100**
Maslov, V. P. Methods of quantum statistics from the standpoint of probability theory. I. (Russian. Russian summary) **2004i:82006**
— Integral equations and phase transitions in probabilistic games. An analogy with statistical physics. (Russian. Russian summary) **2004h:91036**
Mazliak, L. *see* **Bouchard, Bruno, 2004i:46001**
Mazzoleni, Piera Parametric preference structures. (English summary) **2004e:90113**
McAleer, Michael *see* **Sequeira, John M. et al.**
McCulloch, J. Huston *see* **Bidarkota, Prasad V.**
Meade, N. *see* **Beasley, J. E. et al., 2004b:90167**
Mel'nikov, A. V. On the unity of quantitative methods in computations in finance and insurance. (Russian. Russian summary) **2004b:91115**
— ★ Risk analysis in finance and insurance. **2004i:91004**
Merener, Nicolas *see* **Glasserman, Paul, 2004a:60134**
Messina, Vincenzina (*with* Bosetti, Valentina) Uncertainty and option value in land allocation problems. (English summary)
Michelacci, Claudio (*with* Suarez, Javier) Business creation and the stock market. (English summary) **2004m:91092**
Milevsky, Moshe Arye *see* **Huang, Huaxiong et al.**
Mil'shtein, G. N. (*with* Schoenmakers, J. G. M.) Monte Carlo construction of hedging strategies against multi-asset European claims. (English summary) **2004b:60168**
Mishura, Yuliya S. (*with* Oltsik, Yanina A.) Optimal financial strategy with wealth process governed by backward stochastic differential equation. (English summary) **2004j:60125**
(Mitra, Gautam) *see* **Financial decision models in a dynamical setting**
Mitsui, Hidetoshi (*with* Watanabe, Toshiaki) Bayesian analysis of GARCH option pricing models. (Japanese. English and Japanese summaries) **2004m:62198**
Monteiro, Paulo K. *see* **Aliprantis, Charalambos D. et al., 2004k:91079**
Moore, Kristen S. (*with* Young, Virginia R.) Pricing equity-linked pure endowments via the principle of equivalent utility. (English summary) **2004i:91114**
Motoczyński, Michał Risk minimization in the model with transaction costs. (English summary) **2004e:91051**
Musiela, Marek (*with* Zariphopoulou, Thaleia) An example of indifference prices under exponential preferences. (English summary) **2004m:93146**
Nagaev, A. V. (*with* Nagaev, S. A.) Asymptotics of riskless profit under selling of discrete time call options. (English summary) **2004c:62189**
Nagaev, S. A. *see* **Nagaev, A. V., 2004c:62189**
Nagurney, Anna (*with* Ke, Ke) Financial networks with electronic transactions: modelling, analysis and computations. (English summary) **2004d:91053**
Nakamori, Yoshiteru *see* **Huang, Wei[5] et al.**
Nardecchia, Annamaria *see* **Gastaldi, Massimo**
Nardon, Martina *see* **Basso, Antonella et al.**
Nasyrov, F. S. Symmetric integrals and their application to financial mathematics. (Russian. Russian summary) **2004a:60105**
Neto, Camilo Rodrigues *see* **Ramos, Fernando M. et al., 2004d:82036**
Neumann, C. D. D. *see* **Hoogland, J. K. et al., 2004b:60204**
Ng, Siu-Ah ★ Hypermodels in mathematical finance. **2004f:91004**
Nguyen, C. N. *see* **Anh, V. V. et al., 2004e:60091**
Niemann, Rainer (*with* Sureth, Caren) Tax neutrality under irreversibility and risk aversion. (English summary)
Nietert, Bernhard Portfolio insurance and model uncertainty. (English summary) **2004m:91137**
Nikitin, Yakov *see* **Beghin, Luisa et al., 2004m:60173**
Ninomiya, Syoiti A new simulation scheme of diffusion processes: application of the Kusuoka approximation to finance problems. (English summary) **2004d:65017**
— A partial sampling method applied to the Kusuoka approximation. (English summary) **2004e:60111**
Niu, Xu-Feng *see* **Zhang, Shaojun et al., 2004j:62215**
Norkin, Vladimir *see* **Ermol'ev, Yu. M., 2004m:90100**
Ojowu, O. *see* **Ugbebor, O. O. et al.**
Øksendal, Bernt (*with* Ubøe, Jan; Zhang, Tu-Sheng) Non-robustness of some impulse control problems with respect to intervention costs. (English summary) **2004c:93116**
— *see also* **Chancelier, J.-Ph. et al., 2004b:60111**; **Hu, Yaozhong, 2004c:60194** *and* **Di Nunno, Giulia et al., 2004j:60148**
Oltsik, Yanina A. *see* **Mishura, Yuliya S., 2004j:60125**
Onah, S. E. *see* **Ugbebor, O. O. et al.**
Oosterlee, C. W. On multigrid for linear complementarity problems with application to American-style options. (English summary) **2004f:65144**
Oren, Shmuel S. *see* **Deng, Shi-Jie, 2004a:60112**
Orsingher, Enzo *see* **Beghin, Luisa et al., 2004m:60173**
Owadally, M. Iqbal (*with* Haberman, Steven) Pension fund dynamics and gains/losses due to random rates of investment return. (English summary) **2004j:62213**
Pagès, Gilles (*with* Printems, Jacques) Optimal quadratic quantization for numerics: the Gaussian case. (English summary) **2004h:62148**
Panjer, Harry *see* **Chen, Cho-Jieh, 2004k:91123**
Pankov, A. R. (*with* Platonov, E. N.) Guaranteeing solutions of a quadratic programming problem with inexactly specified parameters and their applications in investment. (Russian. Russian summary) **2004d:90053**
Papadopoulos, Konstantinos G. *see* **Koutsougeras, Leonidas C., 2004k:91087**
Papageorgiou, Anargyros Sufficient conditions for fast quasi-Monte Carlo convergence. (English summary) **2004d:65014**
Papatheodorou, T. S. *see* **Koulisianis, M. D., 2004c:90076**
Pascucci, Andrea *see* **Lanconelli, Ermanno et al., 2004c:35238**

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Pavlova, Anna *see* **Cass, David**, **2004k:91130**
Pedersen, Christian S. (*with* Satchell, Stephen) Utility functions whose parameters depend on initial wealth. (English summary) **2004i:91063**
Pellizzari, Paolo *see* **Pizzi, Claudio**, **2004k:65009**
Peng, Shige *see* **Liu, Yazeng**, **2004d:93129**
Pergamenshchikov, Sergei Limit theorem for Leland's strategy. (English summary) **2004e:60042**
Petit, Frédérique *see* **Fujita, Takahiko et al.**, **2004j:60164**
(Pflug, Georg Ch.) *see* **Dynamic stochastic optimization**, **2004j:90007**
Pianca, Paolo *see* **Basso, Antonella et al.**
Piccardi, Carlo *see* **Ghezzi, Luca L.**, **2004c:60203**
Pillichshammer, Friedrich *see* **Leobacher, Gunther**, **2004b:65011**
Piotrowski, Edward W. (*with* Sładkowski, Jan) An invitation to quantum game theory. (English summary)
Pistorius, Martijn R. *see* **Kyprianou, Andreas E.**, **2004f:60096**
Pizzi, Claudio (*with* Pellizzari, Paolo) Monte Carlo pricing of American options using nonparametric regression. (English summary) **2004k:65009**
Platen, Eckhard (*with* Stahl, Gerhard) A structure for general and specific market risk. (English summary)
— A class of complete benchmark models with intensity-based jumps. (English summary) **2004j:91105**
Platonov, E. N. *see* **Pankov, A. R.**, **2004d:90053**
Polidoro, Sergio On the regularity of solutions to a nonlinear ultraparabolic equation arising in mathematical finance. (English summary) **2004c:35239**
— *see also* **Lanconelli, Ermanno et al.**, **2004c:35238**
Politis, Dimitris N. *see* **Bertail, Patrice et al.**
Polyrakis, Ioannis A. Linear optimization in $C(\Omega)$ and portfolio insurance. (English summary) **2004b:90067**
Pooley, D. M. (*with* Forsyth, P. A.; Vetzal, K. R.) Numerical convergence properties of option pricing PDEs with uncertain volatility. (English summary) **2004b:65132**
Poor, H. Vincent *see* **Chen, Li**
Popescu-Bodorin, N. *see* **Varsan, Constantin**
Pötzelberger, Klaus (*with* Sögner, Leopold) Stochastic equilibrium: learning by exponential smoothing. (English summary) **2004e:62049**
Predota, Martin *see* **Hartinger, Jürgen**, **2004d:62362** *and* **Albrecher, Hansjörg**, **(2004a:62012)**
Printems, Jacques *see* **Pagès, Gilles**, **2004h:62148**
Privault, Nicolas *see* **El-Khatib, Youssef**, **2004e:91054** *and* **Jeanblanc-Picqué, Monique**, **2004f:60122**
Proske, Frank N. *see* **Di Nunno, Giulia et al.**, **2004j:60148**
Qian, Fu Cai *see* **Li, Duan et al.**, **2004b:93140**
Qian, Xiao Song Valuation of Asian options in a jump-diffusion model. (Chinese. English and Chinese summaries)
— *see also* **Xu, Cheng-Long et al.**, **2004d:65098**
Qu, Chaochun (*with* Wang, Ping[4]) Mathematical model and optimization in global production problems. (English summary)
Qu, Wendong *see* **Huang, Norden E. et al.**
Quenez, Marie Claire *see* **Lazrak, Ali**, **2004c:60176**
Quinzii, Martine *see* **Magill, Michael**, **2004a:91091** *and* **2004h:91096**
Racheva-Iotova, Boryana *see* **Wörner, Stefan et al.**, **2004d:91149**
Ramos, Fernando M. (*with* Rosa, Reinaldo R.; Neto, Camilo Rodrigues; Bolzan, Mauricio J. A.; de Abreu Sá, Leonardo) Nonextensive thermostatistics description of intermittency in turbulence and financial markets. (English summary) **2004d:82036**
Rásonyi, Miklós A remark on the superhedging theorem under transaction costs. (English summary) (*see* **2004k:60002**)
— *see also* **Kabanov, Yu. M. et al.**, **2004d:60109**
Reed, William J. (*with* Jorgensen, Murray) The double Pareto-lognormal distribution—a new parametric model for size distributions. (English summary)
Renault, Eric *see* **Garcia, René et al.**, **2004g:60105**
Roche, Hervé Stochastic growth: a duality approach. (English summary) **2004i:91140**
Rockinger, Michael *see* **Jondeau, Eric**, **2004d:62095**
Rojo, Javier (*with* El Barmi, Hammou) Estimation of distribution functions under second order stochastic dominance. (English summary) **2004f:62097**
Rosa, Reinaldo R. *see* **Ramos, Fernando M. et al.**, **2004d:82036**
Ruan, Da *see* **Cengiz, Kahraman et al.**
Ruiz-Medina, M. D. *see* **Fernández-Pascual, R. et al.**, **2004g:62150**
Runggaldier, Wolfgang J. *see* **Favero, Gino**, **2004h:93179**
Russell, Jeffrey R. *see* **Bai, Xuezheng et al.**, **2004a:62150**
Rustem, Berç *see* **Gülpınar, Nalan et al.**
Ruszczyński, Andrzej *see* **Dentcheva, Darinka**, **2004m:90098**
Rutkowski, Marek First passage time structural models with interest rate risk. (English summary) **2004e:60114**
Ryznar, Michał *see* **Jakubėnas, Paulius et al.**, **2004a:60121**
(Sakalauskas, L.) *see* **Financial risk in open economies**
Saley, Hadiza Moussa *see* **De Meyer, Bernard**, **2004b:91024**
Salinelli, Ernesto *see* **Bellini, Fabio**, **2004k:94003**
Saphores, Jean-Daniel *see* **Khalaf, Lynda et al.**, **2004g:62161**
Satchell, Stephen *see* **Pedersen, Christian S.**, **2004i:91063**
Sbeiti, Wafaa M. *see* **Al-Eideh, Basel M. et al.**
Schachermayer, Walter *see* **Duffie, Darrell et al.**, **2004g:60107** *and* **Gaier, J. et al.**, **2004k:91124**
Schlesinger, Harris *see* **Gollier, Christian**
Schmedders, Karl *see* **Kubler, Felix**, **2004e:91084**
Schmidt, Thorsten[1] (*with* Stute, Winfried) Credit risk—a survey. (English summary) **2004k:91126**
Schoenmakers, J. G. M. *see* **Mil'shteĭn, G. N.**, **2004b:60168**
Schröder, Michael On the integral of geometric Brownian motion. (English summary) **2004b:60202**
— Brownian excursions and Parisian barrier options: a note. (English summary) **2004h:60024**
Schulz, Michael ★ Statistical physics and economics. **2004f:91005**
Schumacher, Hans *see* **Berridge, Steffan**, **(2004j:00013)**
Sequeira, John M. (*with* Chiat, Pang Chia; McAleer, Michael) Volatility models of currency futures in developed and emerging markets. (English summary)
Settergren, Reuben *see* **Gülpınar, Nalan et al.**
Severino, J. S. (*with* Allen, Edward J.; Victory, H. D., Jr.) Acceleration of quasi-Monte Carlo approximations with applications in mathematical finance. (English summary) **2004i:65006**
Seydel, Rüdiger ★ Tools for computational finance. **2004g:65004**
Shang, Jen S. (*with* Tadikamalla, Pandu R.) Modeling financial series distributions: a versatile data fitting approach. (English summary)
Shen, Samuel S. P. *see* **Huang, Norden E. et al.**
Shiu, Elias S. W. *see* **Gerber, Hans U.**, **2004d:60103**; **2004d:62361**; **Young, Virginia R.**; **Decamps, Marc** *and* **Yu, Carisa K. W.**
Shreve, Steven E. ★ Stochastic calculus for finance. I. **2004m:91003**
Silvestrov, Dmitrii *see* **Jönsson, H. et al.**
Sładkowski, Jan *see* **Piotrowski, Edward W.**
Slim, Skander *see* **Clémençon, Stéphan**
Smith, Peter N. (*with* Wickens, Michael) Asset pricing with observable stochastic discount factors. (*see* **2004j:62007**)
So, Mike K. P. Bayesian analysis of long memory stochastic volatility models. (English summary) **2004a:62166**
Sögner, Leopold *see* **Pötzelberger, Klaus**, **2004e:62049**
Soner, Halil Mete (*with* Touzi, Nizar) Dynamic programming for stochastic target problems and geometric flows. (English summary) **2004d:93142**
— (*with* Touzi, Nizar) The problem of super-replication under constraints. (English summary) **2004j:60128**
— (*with* Touzi, Nizar) A stochastic representation for mean curvature type geometric flows. (English summary) **2004e:60135**
Song, Li Xin[1] *see* **Lai, Min et al.**, **2004i:91110**
Sornette, Didier *see* **Ide, Kayo**, **2004g:34062** *and* **Malevergne, Y.**, **2004m:62226**
Sottinen, T. (*with* Valkeila, È.) On arbitrage and replication in the fractional Black-Scholes pricing model. (English summary) **2004g:60101**
Srikant, Marakani *see* **Baaquie, Belal E. et al.**, **(2004i:81006)**
Stahl, Gerhard *see* **Platen, Eckhard**
Steffensen, Mogens Intervention options in life insurance. (English summary) **2004a:91085**
Štěpán, Josef *see* **Dupačová, Jitka et al.**, **2004f:91002**
Stoyanov, Stoyan *see* **Wörner, Stefan et al.**, **2004d:91149**
Stoynov, Pavel An approach to wealth modelling. (English summary) **2004i:60051**
Stricker, Christophe *see* **Kabanov, Yu. M. et al.**, **2004d:60109**
Strulik, Holger Capital tax reform, corporate finance, and economic growth and welfare. (English summary) **2004e:91095**
Stute, Winfried *see* **Schmidt, Thorsten[1]**, **2004k:91126**
Suarez, Javier *see* **Michelacci, Claudio**, **2004m:91092**
Sulem, Agnès *see* **Chancelier, J.-Ph. et al.**, **2004b:60111**
Sun, Yan Feng *see* **Liang, Yan Chun**, **2004g:62016**
Sureth, Caren *see* **Niemann, Rainer**
Święch, Andrzej *see* **Kelome, Djivede**, **2004j:49046**
Tadikamalla, Pandu R. *see* **Shang, Jen S.**
Tanaka, Hideo *see* **Guo, Peijun**, **2004b:90055**
Tang, Shanjian *see* **Kohlmann, Michael**, **2004f:93138**
Tankov, Peter *see* **Cont, Rama**, **2004m:91004**
Tanskanen, Antti Juho (*with* Lukkarinen, Jani) Fair valuation of path-dependent participating life insurance contracts. (English summary) **2004i:91115**
Taras'ev, A. M. *see* **Klaassen, Ger et al.**, **2004j:91067**
Teichmann, Josef *see* **Filipović, Damir[1]**, **2004b:60147**
Temam, E. Analysis of error with Malliavin calculus: application to hedging. (English summary) **2004i:60087**
(Thomas, Alan) *see* **Bouleau, Nicolas**
Tiao, George C. *see* **Bai, Xuezheng et al.**, **2004a:62150**
Tichy, Robert F. *see* **Albrecher, Hansjörg et al.**
Todor, Fabian On the orthogonal polynomials of Pareto and applications on mathematical models. **2004e:42042**
Tourky, Rabee *see* **Aliprantis, Charalambos D. et al.**, **2004k:91079**
Touzi, Nizar *see* **Soner, Halil Mete**, **2004d:93142**; **2004e:60135**; **2004j:60128** *and* **Bouchard, Bruno et al.**, **2004k:60154**
Troskie, Cas G. *see* **Chen, Tuhao J. et al.**, **2004e:62041**
Tse, Sze-Man *see* **Hsu, Yu-Yun et al.**
Turner, Martin J. *see* **London, M. D. et al.**, **2004b:62159**
(Tveito, Aslak) *see* **Advanced topics in computational partial differential equations**, **2004k:65003**
Tysk, Johan *see* **Janson, Svante**, **2004d:60151**
Uboe, Jan *see* **Øksendal, Bernt et al.**, **2004c:93116**
Ugbebor, O. O. (*with* Onah, S. E.; Ojowu, O.) An empirical stochastic model of stock price changes. (English summary)
Valkeila, È. *see* **Sottinen, T.**, **2004g:60101**
(Vanderhoof, Irwin T.) *see* **Day, Richard H.**, **2004d:91166**
Varsan, Constantin (*with* Popescu-Bodorin, N.) Stochastic Hamiltonians associated with stochastic differential equations and non-smooth final value. (English summary)
Vellekoop, M. H. *see* **Hoogland, J. K. et al.**, **2004b:60204**
Veredas, David *see* **Bauwens, Luc**
Vetzal, K. R. *see* **Pooley, D. M. et al.**, **2004b:65132**
Victory, H. D., Jr. *see* **Severino, J. S. et al.**, **2004i:65006**
Vilela Mendes, Rui (*with* Araújo, Tanya; Louçã, Francisco) Reconstructing an economic space from a market metric. (English summary) **2004d:91093**
Villasana, Minaya *see* **Gzyl, Henryk**

Villeneuve, Stéphane *see* **Loubergé, Henri et al., 2004d:91188**
Virág, Bálint *see* **Angel, Omer et al., 2004f:60201**
Wagner, Niklas Estimating financial risk under time-varying extremal return behavior. (English summary) **2004f:91093**
Wago, Hajime Bayesian estimation of smooth transition GARCH model using Gibbs sampling. (English summary)
Wallace, Stein W. *see* **Fleten, Stein-Erik et al., (2004k:91005)**
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Wang, Hui[4] *see* **Kou, S. G., 2004e:60141**
Wang, J. *see* **Huang, Huaxiong et al.**
Wang, Jiahui *see* **Zivot, Eric, 2004f:62011**
Wang, Ping[4] *see* **Qu, Chaochun**
Wang, Shou Yang *see* **Huang, Wei[5] et al.**
Watanabe, Toshiaki *see* **Mitsui, Hidetoshi, 2004m:62198**
Weber, Thomas Alois (*with* Croson, David C.) Selling less information for more: garbling with benefits. (English summary)
White, Halbert *see* **Bertail, Patrice et al.**
Wickens, Michael *see* **Smith, Peter N., (2004j:62007)**
Wirl, Franz *see* **Dangl, Thomas, 2004m:49080**
Wong, Kit Pong Export flexibility and currency hedging. (English summary) **2004f:91058**
Wörner, Stefan (*with* Racheva-Iotova, Boryana; Stoyanov, Stoyan) Calibration of a basket option model applied to company valuation. (English summary) **2004d:91149**
Wu, Berlin *see* **Hsu, Yu-Yun et al.**
Wu, Cheng-Ru *see* **Lin, Chin-Tsai, 2004c:91041**
Wu, Man-Li C. *see* **Huang, Norden E. et al.**
Wu, Xiaonan *see* **Han, Hou-de, 2004k:65136**
Xia, Jian-ming *see* **Li, Ping[8], 2004j:60074**
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Yamamoto, Rei *see* **Konno, Hiroshi, 2004g:90100**
Yan, Jia-An A numeraire-free and original probability based framework for financial markets. (English summary) **2004b:60169**
Yang, Chuanhou *see* **Brockett, Patrick L. et al., (2004k:62016)**
Yang, Hongtao *see* **Allegretto, Walter et al., 2004f:65111**
Yang, Zhao Jun (*with* Huang, Li Hong) Maximizing the expected logarithmic utility from terminal wealth under the partial information and the valuation of information. (Chinese. English and Chinese summaries)
Ye, Zhong Xing *see* **Xiong, De Wen, 2004k:91075**
Yor, Marc *see* **Fujita, Takahiko et al., 2004j:60164**
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Yuen, Kam C. *see* **Chen, Zhi Ping et al., 2004j:91201**
Zaffaroni, Paolo (*with* d'Italia, Banca) Gaussian inference on certain long-range dependent volatility models. (English summary) **2004e:62031**
Zame, William R. *see* **Anderson, Robert M., 2004g:91038**
Zapatero, Fernando *see* **Cvitanić, Jakša, 2004m:91002**
Zariphopoulou, Thaleia *see* **Musiela, Marek, 2004m:93146**
Zastawniak, Tomasz *see* **Capiński, Marek, 2004f:91001**
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(Zenios, Stavros A.) *see* **Financial decision models in a dynamical setting**
Zervos, Michael A problem of sequential entry and exit decisions combined with discretionary stopping. (English summary) **2004b:93141**
Zhang, Chunming M. *see* **Fan, Jianqing, 2004a:62078**
Zhang, Shaojun (*with* Niu, Xu-Feng; Ang, James S.) Building tracking portfolios based on a generalized information criterion. (English summary) **2004j:62215**
Zhang, Tu-Sheng *see* **Øksendal, Bernt et al., 2004c:93116**
Zhang, Yu Zhong[1] *see* **Xu, Shi Meng**
Zhao, Shi Shun *see* **Lai, Min et al., 2004i:91110**
Zhao, Xue Lei *see* **Zeng, Li Fei et al.**
Ziemba, William T. *see* **Fleten, Stein-Erik et al., (2004k:91005)**
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Society for Computational Economics ★ Computing in economics and finance.
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Financial decision models in a dynamical setting ★ Financial decision models in a dynamical setting.
Financial risk in open economies ★ Financial risk in open economies.
Laxenburg ★ Dynamic stochastic optimization. **2004j:90007**
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91B30 Risk theory, insurance

Albrecher, Hansjörg (*with* Kainhofer, Reinhold; Tichy, Robert F.) Simulation methods in ruin models with non-linear dividend barriers. (English summary)
Allouba, Hassan (*with* Goodman, Victor) Market price of risk and random field driven models of term structure: a space-time change of measure look. (English summary) **2004j:91162**
Arriaza, Manuel *see* **Gómez-Limón, José A. et al., 2004g:91084**
Asmussen, Søren (*with* Møller, Jakob R.) Risk comparisons of premium rules: optimality and a life insurance study. (English summary) **2004d:91136**
Avram, Florin (*with* Usabel, Miguel) Finite time ruin probabilities with one Laplace inversion. (English summary)
Badam, Ulemj A simple model of improving survival in economical systems. (English summary) **2004j:91163**
Beirlant, Jan *see* **Hoedemakers, Tom et al., 2004i:91109** *and* **Verlaak, Robert**
Bening, Vladimir E. (*with* Korolev, V. Yu.; Kudryavtsev, A. A.) On the computation of confidence intervals for the ruin probability in generalized risk. (Russian. Russian summary) **2004c:91062**
— *see also* **Wu, Da, 2004a:91086**
Bolancé, Catalina (*with* Guillén, Montserrat; Pinquet, Jean) Time-varying credibility for frequency risk models: estimation and tests for autoregressive specifications on the random effects. (English summary)
Borm, Peter *see* **De Waegenaere, Anja et al., 2004f:91090**
Borotyuk, A. Yu. *see* **Ēleĭko, Ya. Ī.**
Bouleau, Nicolas Error calculus and path sensitivity in financial models. (English summary) **2004i:91105**
Breitmeyer, Carsten (*with* Hakenes, Hendrik; Pfingsten, Andreas) From poverty measurement to the measurement of downside risk. (English summary) **2004m:91131**
Campbell, Colin MacKenzie Blackwell's ordering and public information. (English summary)
Carlier, Guillaume (*with* Dana, Rose-Anne) Pareto efficient insurance contracts when the insurer's cost function is discontinuous. (English summary) **2004d:91137**
Castagnoli, Erio (*with* Maccheroni, Fabio; Marinacci, Massimo) Insurance premia consistent with the market. (English summary) **2004d:91138**
Chan, Wai-sum (*with* Yang, Hailiang; Zhang, Lian-zeng) Some results on ruin probabilities in a two-dimensional risk model. (English summary)
Chang, Ching Lung *see* **Shao, Sai Lai, 2004m:91139**
Chang, Fwu-Ranq Life insurance, precautionary saving and contingent bequest. (English summary) **2004m:91132**
Chateauneuf, Alain (*with* Cohen, Michèle; Meilijson, Isaac) Four notions of mean-preserving increase in risk, risk attitudes and applications to the rank-dependent expected utility model. (English summary) **2004m:91133**
Chen, Cho-Jieh (*with* Panjer, Harry) Unifying discrete structural models and reduced-form models in credit risk using a jump-diffusion process. (English summary) **2004k:91123**
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Cheng, Yu (*with* Pai, Jeffrey S.) On the nth stop-loss transform order of ruin probability. (English summary) **2004b:91112**
Chernih, Andrew *see* **Valdez, Emiliano A., 2004i:91116**
Chiat, Pang Chia *see* **Sequeira, John M. et al.**
Christensen, Bent Jesper Financial risk modelling and inference. **2004e:91074**
Cohen, Michèle *see* **Chateauneuf, Alain et al., 2004m:91133**
Crowder, Martin J. *see* **Stephens, David A. et al.**
Da, Qing Li *see* **Xu, Ze Shui, 2004d:91143**
Dahan, Merav (*with* Frostig, Esther; Langberg, Naftali A.) Analysis of heterogeneous endowment policies portfolios under fractional approximations. (English summary) **2004i:91107**
Dana, Rose-Anne *see* **Carlier, Guillaume, 2004d:91137**
Dębicka, Joanna Moments of the cash value of future payment steams arising from life insurance contracts. (English summary)
Dellaportas, Petros *see* **Stephens, David A. et al.**
Denuit, Michel *see* **Dhaene, Jan et al., 2004d:91139**
Derieva, Elena N. *see* **Knopov, Pavel S., 2004g:91085**
De Waegenaere, Anja (*with* Suijs, Jeroen; Borm, Peter) Optimal design of pension funds: a mission impossible? (English summary) **2004f:91090**
— (*with* Kast, Robert; Lapied, André) Choquet pricing and equilibrium. (English summary) **2004e:91075**
Dhaene, Jan (*with* Denuit, Michel; Goovaerts, Marc J.; Kaas, Rob; Vyncke, David) The concept of comonotonicity in actuarial science and finance: applications. (English summary) **2004d:91139**
— *see also* **Hoedemakers, Tom et al., 2004i:91109**
Dickson, David C. M. *see* **Willmot, Gordon E., 2004m:91140**
Ding, Zhao Peng *see* **Zeng, Li Fei et al.**
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Dutta, Suddha Sankar (*with* Pal, Manisha) A stocking cum pricing model under the effect of consumer behaviour. (English summary) **2004j:91164**
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Ermol′eva, T. Yu. *see* **Ermol′ev, Yu. M. et al., 2004c:91063**
Faure-Grimaud, Antoine (*with* Laffont, Jean-Jacques; Martimort, David) Risk averse supervisors and the efficiency of collusion. (English summary)
Filar, Jerzy A. *see* **Lin, Yuanlie et al., 2004i:91112**
Fischer, Tom Risk capital allocation by coherent risk measures based on one-sided moments. (English summary) **2004b:91113**
Fleten, Stein-Erik *see* **de Lange, Petter E. et al.**
Fragnelli, Vito (*with* Marina Borghesani, Maria Erminia) A fair procedure in insurance. (English summary) **2004i:91108**
Frees, Edward W. Stochastic forecasting of labor force participation rates. (English summary)
Frostig, Esther Upper bounds on the expected time to ruin and on the expected recovery time. (English summary) **2004m:91134**
— *see also* **Dahan, Merav et al., 2004i:91107**
Gaier, J. (*with* Grandits, P.; Schachermayer, Walter) Asymptotic ruin probabilities and optimal investment. (English summary) **2004k:91124**
Gaĭvoronskiĭ, A. A. *see* **de Lange, Petter E. et al.**
Gao, Ming Mei (*with* Zhao, Ming Qing) Recursive formulas of a discrete time risk model. (English and Chinese summaries) **2004h:91074**
Gómez-Limón, José A. (*with* Arriaza, Manuel; Riesgo, Laura) An MCDM analysis of agricultural risk aversion. (English summary) **2004g:91084**
Goodman, Victor *see* **Allouba, Hassan, 2004j:91162**
Goovaerts, Marc J. *see* **Dhaene, Jan et al., 2004d:91139** *and* **Hoedemakers, Tom et al., 2004i:91109**
Gordon, Stephen (*with* St-Amour, Pascal) Asset returns and state-dependent risk preferences. (English summary)
Grandits, P. *see* **Gaier, J. et al., 2004k:91124**
Guillén, Montserrat *see* **Bolancé, Catalina et al.**
Haberman, Steven *see* **Renshaw, A. E.**
Hakenes, Hendrik *see* **Breitmeyer, Carsten et al., 2004m:91131**
Hall, F. R. *see* **Zhang, Xutuan et al., (2004i:00008)**
Hoedemakers, Tom (*with* Beirlant, Jan; Goovaerts, Marc J.; Dhaene, Jan) Confidence bounds for discounted loss reserves. (English summary) **2004i:91109**
Hubalek, Friedrich (*with* Schachermayer, Walter) Optimizing expected utility of dividend payments for a Brownian risk process and a peculiar nonlinear ODE. (English summary) **2004m:91135**
Hürlimann, Werner Measuring operational risk using a mean scaled individual risk model. (English summary) **2004m:91136**
Jerger, Jürgen (*with* Michaelis, Jochen) Wage hikes as supply and demand shock. (English summary) **2004h:91075**
Jiang, Tao[3] *see* **Su, Chun et al., 2004h:91076**
Jucá, Iana B. *see* **Powers, Michael R. et al., 2004b:91117**
Kaas, Rob *see* **Dhaene, Jan et al., 2004d:91139**
Kainhofer, Reinhold *see* **Albrecher, Hansjörg et al.**
Kast, Robert (*with* Lapied, André) Comonotonic book making and attitudes to uncertainty. (English summary) **2004e:91076**
— *see also* **De Waegenaere, Anja et al., 2004e:91075**
Kibble, K. *see* **Zhang, Xutuan et al., (2004i:00008)**
Knopov, Pavel S. (*with* Derieva, Elena N.) One model of insurance company optimal control. (English summary) **2004g:91085**
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Korolev, V. Yu. *see* **Bening, Vladimir E. et al., 2004c:91062**
Kräkel, Matthias (*with* Sliwka, Dirk) Risk taking in asymmetric tournaments. (English summary) **2004k:91125**
Krishnamurthy, Arvind[2] Collateral constraints and the amplification mechanism. (English summary) **2004c:91064**
Kudryavtsev, A. A. *see* **Bening, Vladimir E. et al., 2004c:91062**
Laffont, Jean-Jacques *see* **Faure-Grimaud, Antoine et al.**
Lai, Min (*with* Zhao, Shi Shun; Song, Li Xin[1]) The equivalence property of return-risk models. (Chinese. English and Chinese summaries) **2004i:91110**
Langberg, Naftali A. *see* **Dahan, Merav et al., 2004i:91107**
de Lange, Petter E. (*with* Fleten, Stein-Erik; Gaĭvoronskiĭ, A. A.) Modeling financial reinsurance in the casuality insurance business via stochastic programming. (English summary)
Lapied, André *see* **De Waegenaere, Anja et al., 2004e:91075** *and* **Kast, Robert, 2004e:91076**
Leong, Siew Meng *see* **Teo, Chung-Piaw, 2004d:91142**
Li, Ping *see* **Sun, Zhi Hua et al.**
Lin, X. Sheldon (*with* Willmot, Gordon E.; Drekic, Steve) The classical risk model with a constant dividend barrier: analysis of the Gerber-Shiu discounted penalty function. (English summary) **2004i:91111**
Lin, Yuanlie (*with* Filar, Jerzy A.; Liu, Ke[1]) Finite horizon portfolio risk models with probability criterion. (English summary) **2004i:91112**
Liu, Ke[1] *see* **Lin, Yuanlie et al., 2004i:91112**
Liu, Wen Ping *see* **Sun, Zhi Hua et al.**
Liu, Yu Qing *see* **Long, Wen Li et al., 2004i:91113**
Long, Wen Li (*with* Liu, Yu Qing; Wang, Chong) Pricing on two kinds of group insurance contracts. (Chinese. English and Chinese summaries) **2004i:91113**
Lukkarinen, Jani *see* **Tanskanen, Antti Juho, 2004i:91115**
Maccheroni, Fabio *see* **Castagnoli, Erio et al., 2004d:91138**
MacDonald, Gordon J. F. *see* **Ermol′ev, Yu. M. et al., 2004c:91063**
Makatis, G. (*with* Zazanis, Michael A.) Smoothed Monte Carlo estimators for the time-in-the-red in risk processes. (English summary)
Mao, Ze Chun The applications of dual utility theory in insurance. (Chinese. English and Chinese summaries) **2004b:91114**
Marina Borghesani, Maria Erminia *see* **Fragnelli, Vito, 2004i:91108**
Marinacci, Massimo *see* **Castagnoli, Erio et al., 2004d:91138**
Martimort, David *see* **Faure-Grimaud, Antoine et al.**
McAleer, Michael *see* **Sequeira, John M. et al.**
Meilijson, Isaac *see* **Chateauneuf, Alain et al., 2004m:91133**
Mel′nikov, A. V. On the unity of quantitative methods in computations in finance and insurance. (Russian. Russian summary) **2004b:91115**
Michaelis, Jochen *see* **Jerger, Jürgen, 2004h:91075**
Mihsein, M. *see* **Zhang, Xutuan et al., (2004i:00008)**
Møller, Jakob R. *see* **Asmussen, Søren, 2004d:91136**
Møller, Thomas Indifference pricing of insurance contracts in a product space model. (English summary) **2004d:91141**
— Indifference pricing of insurance contracts in a product space model: applications. (English summary) **2004b:91116**
Moore, Kristen S. (*with* Young, Virginia R.) Pricing equity-linked pure endowments via the principle of equivalent utility. (English summary) **2004i:91114**
Nietert, Bernhard Portfolio insurance and model uncertainty. (English summary) **2004m:91137**
Norkin, Vladimir *see* **Ermol′ev, Yu. M. et al., 2004c:91063**
Olivieri, Annamaria (*with* Pitacco, Ermanno) Managing demographic risks in long term care insurance. (English summary)
Ou Yang, Zi Sheng (*with* Yan, Yin) Some moment's results of present value function of increasing life insurance under random interest rate. (Chinese. English and Chinese summaries)
Pai, Jeffrey S. *see* **Cheng, Yu, 2004b:91112**
Pal, Manisha *see* **Dutta, Suddha Sankar, 2004j:91164**
Panjer, Harry *see* **Chen, Cho-Jieh, 2004k:91123**
Pelessoni, Renato (*with* Vicig, Paolo) Imprecise previsions for risk measurement. (English summary) **2004g:91086**
Pfingsten, Andreas *see* **Breitmeyer, Carsten et al., 2004m:91131**
Pinquet, Jean *see* **Bolancé, Catalina et al.**
Pitacco, Ermanno *see* **Olivieri, Annamaria**
Powers, Michael R. (*with* Venezian, Emilio C.; Jucá, Iana B.) Of happy and hapless regulators: the asymptotics of ruin. (English summary) **2004b:91117**
Prasad, Kislaya *see* **Dutta, Jayasri, 2004a:91084**
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Rey, Béatrice A note on optimal insurance in the presence of a nonpecuniary background risk. (English summary)
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Riesgo, Laura *see* **Gómez-Limón, José A. et al., 2004g:91084**
Romaniuk, Maciej Pricing the risk-transfer financial instruments via Monte Carlo methods. (English summary) **2004f:91091**
Ryan, Matthew Joseph (*with* Vaithianathan, Rhema) Adverse selection and insurance contracting: a rank-dependent utility analysis. (English summary) **2004f:91092**
— (*with* Vaithianathan, Rhema) Medical insurance with rank-dependent utility. (English summary) **2004g:91087**
Schachermayer, Walter *see* **Gaier, J. et al., 2004k:91124** *and* **Hubalek, Friedrich, 2004m:91135**
Schmidt, Thorsten[1] (*with* Stute, Winfried) Credit risk—a survey. (English summary) **2004k:91126**
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Shao, Sai Lai (*with* Chang, Ching Lung) Asymptotic and numerical solutions for diffusion models for compounded risk reserves with dividend payments. (English summary) **2004m:91139**
Sliwka, Dirk *see* **Kräkel, Matthias, 2004k:91125**
Song, Li Xin[1] *see* **Lai, Min et al., 2004i:91110**
Spronk, Jaap (*with* Vermeulen, Erik M.) Comparative performance evaluation under uncertainty. (English summary) **2004g:91088**
Stafford, James E. *see* **Drekic, Steve et al.**
St-Amour, Pascal *see* **Gordon, Stephen**
Steffensen, Mogens Intervention options in life insurance. (English summary) **2004a:91085**
Stephens, David A. (*with* Crowder, Martin J.; Dellaportas, Petros) Quantification of automobile insurance liability: a Bayesian failure time approach. (English summary)
Stute, Winfried *see* **Schmidt, Thorsten[1], 2004k:91126**
Su, Chun (*with* Jiang, Tao[3]; Tang, Qi-he) Extension of some classical results on ruin probability to delayed renewal model. (English summary) **2004h:91076**
Suijs, Jeroen *see* **De Waegenaere, Anja et al., 2004f:91090**
Sun, Zhi Hua (*with* Li, Ping; Liu, Wen Ping) The effect of technological uncertainty on the investment of R&D. (Chinese. English and Chinese summaries)
Sundt, Bjørn Some recursions for moments of n-fold convolutions. (English summary) **2004j:91165**
Tang, Qi-he *see* **Su, Chun et al., 2004h:91076**
Tanskanen, Antti Juho (*with* Lukkarinen, Jani) Fair valuation of path-dependent participating life insurance contracts. (English summary) **2004i:91115**
Teo, Chung-Piaw (*with* Leong, Siew Meng) Managing risk in a four-digit number game. (English summary) **2004d:91142**
Tichy, Robert F. *see* **Albrecher, Hansjörg et al.**
Tsai, Cary Chi-Liang On the expectations of the present values of the time of ruin perturbed by diffusion. (English summary) **2004e:91077**
Usabel, Miguel *see* **Avram, Florin**

Vaithianathan, Rhema *see* **Ryan, Matthew Joseph**, **2004f:91092** *and* **2004g:91087**
Valdez, Emiliano A. (*with* Chernih, Andrew) Wang's capital allocation formula for elliptically contoured distributions. (English summary) **2004i:91116**
Venezian, Emilio C. *see* **Powers, Michael R. et al.**, **2004b:91117**
Verlaak, Robert (*with* Beirlant, Jan) Optimal reinsurance programs. An optimal combination of several reinsurance protections on a heterogeneous insurance portfolio. (English summary)
Vermeulen, Erik M. *see* **Spronk, Jaap**, **2004g:91088**
Vicig, Paolo *see* **Pelessoni, Renato**, **2004g:91086**
Vyncke, David *see* **Dhaene, Jan et al.**, **2004d:91139**
Wagener, Andreas *see* **Eichner, Thomas**, **2004d:91140**
Wagner, Niklas Estimating financial risk under time-varying extremal return behavior. (English summary) **2004f:91093**
Wang, Chong *see* **Long, Wen Li et al.**, **2004i:91113**
Wang, Chun Fa Locally risk-minimizing hedging strategies for equity-linked pure endowment life insurance contracts. (Chinese. English and Chinese summaries) **2004i:91117**
Wang, Guo-jing *see* **Zhang, Chun Sheng**, **2004d:91144**
Wang, Han Xing *see* **Yu, Wan Xia**
Wang, Jing Long *see* **Wu, Xianyi**, **2004c:91065**
Wang, Wei (*with* Yatracos, Yannis) A stop-loss risk index. (English summary)
Willmot, Gordon E. (*with* Dickson, David C. M.) The Gerber-Shiu discounted penalty function in the stationary renewal risk model. (English summary) **2004m:91140**
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Xiang, George *see* **Chen, Dian Fa**, **2004i:91106**
Xu, Ze Shui (*with* Da, Qing Li) Synthetic hierarchy methods based on weight matrices in risk investment. (Chinese. English and Chinese summaries) **2004d:91143**
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Lajeri-Chaherli, Fatma Partial derivatives, comparative risk behavior and concavity of utility functions. (English summary) **2004f:91055**
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Li, Shi Yin *see* **Wang, Bao He, 2004h:60075**
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Norkin, Vladimir *see* **Ermol′ev, Yu. M., 2004m:90100**
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Stenbacka, Rune *see* **Alvarez, Luis H. R., 2004m:91095**
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Weisshaupt, Heinz Insuring against the shortfall risk associated with real options. (English summary) **2004h:91068**
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91B32 Resource and cost allocation

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Di, Zengru *see* **Wu, Jinshan et al., 2004d:91147**
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García-Jurado, Ignacio *see* **Fragnelli, Vito et al., 2004i:91118**
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Jewkes, E. M. *see* **Ray, Saibal[2]**
Kıbrıs, Özgür Constrained allocation problems with single-peaked preferences: an axiomatic analysis. (English summary) **2004d:91146**
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Maniquet, François (*with* Sprumont, Yves) Fair production and allocation of an excludable nonrival good. (English summary) **2004j:91166**
Melnikov, Valery V. *see* **Zakharov, Viktor, 2004m:91146**
Méndez-Naya, Luciano *see* **Fragnelli, Vito et al., 2004i:91118**
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Ohseto, Shinji Implementing egalitarian-equivalent allocation of indivisible goods on restricted domains. (English summary) **2004k:91127**
Palhares, Reinaldo M. *see* **Ekel, P. Ya. et al.**
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Pritchard, Geoffrey *see* **Philpott, A. B.**
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Simmons, Forest W. (*with* Su, Francis Edward) Consensus-halving via theorems of Borsuk-Ulam and Tucker. (English summary) **2004a:91087**
Sprumont, Yves *see* **Maniquet, François, 2004j:91166**
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Su, Francis Edward *see* **Simmons, Forest W., 2004a:91087**
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Kittsteiner, Thomas *see* **Fieseler, Karsten et al., 2004i:91127**
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Peters, Hans *see* **Otten, Gert-Jan, 2004i:91025**
Plyasunov, A. V. *see* **Kochetov, Yu. A., 2004b:90052**
Prakhovnik, A. *see* **Ekel, P. Ya. et al.**
Pulsipher, Allan G. *see* **Kaiser, Mark J.**
Quintas, Louis V. *see* **Farrell, Edward J. et al., 2004m:05146**
Romeijn, H. Edwin *see* **Geunes, Joseph et al., 2004j:91168**
Sanegre, Rafael *see* **MacLean, Leonard C. et al., 2004k:91114**
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91B38 Production theory, theory of the firm

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Cohen, Joel M. *see* **Barile, Margherita, 2004i:11018**
Ekes, Maria Core and equilibria in models of large household economy. (English summary) **2004k:91133**
Kerstens, Kristiaan *see* **Boussemart, Jean-Philippe et al., 2004i:91160** *and* **Briec, Walter, 2004m:91192**
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Magill, Michael (*with* Quinzii, Martine) Nonshiftable capital, affine price expectations and convergence to the Golden Rule. (English summary) **2004h:91096**
Norin, Anna *see* **Puu, Tönu, 2004g:91112**
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91B40 Labor market, contracts

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van den Berg, Gerard J. Multiple equilibria and minimum wages in labor markets with informational frictions and heterogeneous production technologies. (English summary) **2004g:91090**
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Burdett, Ken (*with* Coles, Melvyn G.) Equilibrium wage-tenure contracts. (English summary) **2004f:91099**
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Dellas, Harris *see* **Collard, Fabrice**, **2004j:91171**
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Madden, Paul *see* **Kaas, Leo**
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Mittendorf, Brian *see* **Arya, Anil**, **2004j:91169**
Moen, Espen R. Do good workers hurt bad workers—or is it the other way around? (English summary) **2004d:91150**
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Radić, Dubravko *see* **Hujer, Reinhard**, (**2004k:62015**)
Reichelstein, Stefan *see* **Mookherjee, Dilip**
Sandholm, Tuomas *see* **Braynov, Sviatoslav**, **2004b:91119**
Segal, Ilya (*with* Whinston, Michael D.) Robust predictions for bilateral contracting with externalities. (English summary) **2004d:91151**
— Coordination and discrimination in contracting with externalities: divide and conquer? (English summary) **2004i:91124**
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Simmons, Peter *see* **Berloffa, Gabriella**, **2004e:91081**
Skåtun, John Douglas (*with* Theodossiou, Ioannis) Contracts, the spot market wage and unemployment benefits. (English summary) **2004h:91077**
Sørensen, Anders *see* **Hougaard Jensen, Svend E.**
(Stadler, Manfred) *see* **Wapler, Rüdiger**, **2004i:91125**
Suen, Wing *see* **Li, Hao[5]**, **2004j:91172**
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Whinston, Michael D. *see* **Segal, Ilya**, **2004d:91151**

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Banin, Maxim V. *see* **Mazalov, Vladimir V.**, **2004k:91044**
Cai, Xiao-Qiang *see* **Lee, Heung Wing Joseph et al.**, **2004k:90053**
Calvó-Armengol, Antoni Job contact networks. (English summary) **2004k:91165**
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García-Jurado, Ignacio *see* **Casas-Méndez, Balbina et al.**, **2004k:91018**
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Hopenhayn, Hugo A. *see* **Albuquerque, Rui**, **2004m:91147**
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91B42 Consumer behavior, demand theory

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Kittsteiner, Thomas *see* **Fieseler, Karsten et al., 2004i:91127**
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Muir, Allan *see* **Glycopantis, Dionysius et al., 2004h:91080**
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91B50 Equilibrium: general theory

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Chen, Fuchuan *see* **Zhang, Yu Cheng[2]**
Chen, Qinglin *see* **Wang, Songping et al.**
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Ekeland, Ivar *see* **Chiappori, Pierre-Andre et al., 2004m:91160**
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Hua, Ben *see* **Wang, Songping et al.**
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Pavlova, Anna *see* **Cass, David, 2004k:91130**
Pintos-Clapés, Juan *see* **Molina-Abraldes, Antonio, 2004h:91082**
Plott, Charles R. *see* **Anderson, Christopher M. et al., 2004m:91156**
Podczeck, Konrad Core and Walrasian equilibria when agents' characteristics are extremely dispersed. (English summary) **2004k:91137**
Polemarchakis, Herakles M. *see* **Chiappori, Pierre-Andre et al., 2004m:91160**
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Rotar, Vladimir *see* **Majumdar, Mukul, 2004b:91124**
Rubinov, Aleksandr M. *see* **Ioffe, Alexander D., 2004k:91134**
Rutherford, Thomas F. *see* **Rasmussen, Tobias N., 2004m:91164**
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Tarafdar, Enayet *see* **Chowdhury, Mohammad S. R., 2004g:90098**
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von Thadden, Leopold *see* **Kaas, Leo**
Tirelli, Mario Income taxation when markets are incomplete. (English summary) **2004h:91102**
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91B52 Special types of equilibria

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Moulin, Hervé *see* **Crès, Hervé**, **2004e:91089**
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Safra, Shmuel *see* **Deng, Xiao-Tie et al.**, **2004h:68054**
Sandroni, Alvaro *see* **Mailath, George J.**, **2004d:91087**
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91B54 Special types of economies

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Magill, Michael (*with* Quinzii, Martine) Indeterminacy of equilibrium in stochastic OLG models. (English summary) **2004h:91087**
Majumdar, Mukul *see* **Hashimzade, Nigar**, **2004d:91158**
Marschak, Thomas *see* **Hurwicz, Leonid**, **2004m:91168**
McLean, Richard P. (*with* Postlewaite, Andrew) Informational size and incentive compatibility with aggregate uncertainty. (English summary) **2004j:91183**
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Núñez-Sanz, Carmelo *see* **Hervés-Beloso, Carlos et al.**, **2004c:91070**
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Quinzii, Martine *see* **Magill, Michael**, **2004h:91087**
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Schmedders, Karl *see* **Kubler, Felix**, **2004h:91086**
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Shitovitz, Benyamin *see* **Einy, Ezra**, **2004d:91145**
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91B60 General economic models, trade models

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Gupta, Manash Ranjan *see* **Chaudhuri, Sarbajit**
Halevy, Yoram The possibility of speculative trade between dynamically consistent agents. (English summary)
Huang, Nan Jing *see* **Lan, Heng You et al., 2004c:91071**
Ishiguro, Shingo Comparing allocations under asymmetric information: Coase theorem revisited. (English summary) **2004d:91161**
Johnson, Simon *see* **Friedman, Eric J. et al.**
Katayama, Seiichi *see* **Das, Satya P.**
Keglević, Ivan Matrix approach to the calculation of indirect quotas. (English summary) **2004g:91102**
Laffargue, Jean-Pierre *see* **Cadiou, Loïc et al., 2004f:91109**
Lan, Heng You (*with* Huang, Nan Jing; Li, Zhu Yu) A tariff trade game model. (Chinese. English and Chinese summaries) **2004c:91071**
Landsberg, A. S. *see* **Friedman, Eric J. et al.**
Lasserre, Guillaume Asymmetric information and imperfect competition in a continuous time multivariate security model. (English summary) **2004m:91169**
Li, Zhu Yu *see* **Lan, Heng You et al., 2004c:91071**
Melitz, Marc J. The impact of trade on intra-industry reallocations and aggregate industry productivity. (English summary) **2004h:91089**
de Meza, David *see* **Collie, David**
Oomes, Nienke Local trade networks and spatially persistent unemployment. (English summary) **2004d:91162**
Péridy, Nicolas Trade effects of scale economies: evidence from four EU countries. (English summary)
Pfaffermayr, Michael *see* **Baltagi, Badi H. et al., 2004g:91099**
Puu, Tönu *see* **Sushko, Irina M. et al., 2004f:91110**
Sachs, Jeffrey D. *see* **Cheng, Wenli et al., 2004k:91141**
Sushko, Irina M. (*with* Puu, Tönu; Gardini, Laura) The Hicksian floor-roof model for two regions linked by interregional trade. (English summary) **2004f:91110**
Tabata, Minoru (*with* Eshima, Nobuoki) A self-referential agent-based model that consists of a large number of agents moving stochastically in a discrete bounded domain. (English summary) **2004c:91072**
— (*with* Eshima, Nobuoki) The behavior of stochastic agent-based models when the number of agents and the time variable tend to infinity. (English summary) **2004m:91170**
Wong, Siu-kee Existence of trading Nash equilibrium in tariff retaliation models. (English summary) **2004m:91171**
Yang, Xiaokai *see* **Cheng, Wenli et al., 2004k:91141**
Yun, Kwan Koo Similarity of endowments and the factor price equalization condition. (English summary)

Items with secondary classifications in 91B60

Al-Najjar, Nabil I. Aggregation and the law of large numbers in large economies. (English summary) **2004k:91024**
Baliga, Sandeep (*with* Vohra, Rakesh V.) Market research and market design. (English summary) **2004f:91059**
Boccard, Nicolas (*with* Wauthy, Xavier J.) Optimal quotas, price competition and products' attributes. (English summary) **2004i:91040**
Calzolari, Giacomo Incentive regulation of multinational enterprises. (English summary) **2004j:91184**
Chau, Nancy H. (*with* Färe, Rolf; Grosskopf, Shawna) Trade restrictiveness and efficiecy. (English summary) **2004d:91148**
Ding, Xie Ping *see* **Kim, Won Kyu, 2004e:91007**
Dubey, Pradeep (*with* Geanakoplos, John) Inside and outside fiat money, gains to trade, and IS-LM. (English summary) **2004h:91100**
— (*with* Sahi, Siddhartha) Price-mediated trade with quantity signals: an axiomatic approach. (English summary) **2004e:91035**
Färe, Rolf *see* **Chau, Nancy H. et al., 2004d:91148**
Fieseler, Karsten (*with* Kittsteiner, Thomas; Moldovanu, Benny) Partnerships, lemons, and efficient trade. (English summary) **2004i:91127**
Gallegati, Mauro (*with* Gardini, Laura; Puu, Tönu; Sushko, Irina M.) Hicks' trade cycle revisited: cycles and bifurcations. (English summary) **2004i:91136**
Gardini, Laura *see* **Gallegati, Mauro et al., 2004i:91136**
Geanakoplos, John *see* **Dubey, Pradeep, 2004h:91100**
Grosskopf, Shawna *see* **Chau, Nancy H. et al., 2004d:91148**
Kim, Won Kyu (*with* Ding, Xie Ping) On generalized weight Nash equilibria for generalized multiobjective games. (English summary) **2004e:91007**
Kittsteiner, Thomas *see* **Fieseler, Karsten et al., 2004i:91127**
Leahy, Dermot *see* **Neary, J. Peter, 2004j:91070**
Moldovanu, Benny *see* **Fieseler, Karsten et al., 2004i:91127**
Neary, J. Peter (*with* Leahy, Dermot) Revenue-constrained strategic trade and industrial policy. (English summary) **2004j:91070**
Ng, Man-Chung On the duality between prior beliefs and trading demands. (English summary) **2004d:91047**
Picozzi, Sergio *see* **Scafetta, Nicola et al.**
Puu, Tönu *see* **Gallegati, Mauro et al., 2004i:91136**
Sahi, Siddhartha *see* **Dubey, Pradeep, 2004e:91035**
Scafetta, Nicola (*with* Picozzi, Sergio; West, Bruce J.) An out-of-equilibrium model of the distributions of wealth. (English summary)
Sushko, Irina M. *see* **Gallegati, Mauro et al., 2004i:91136**
Vohra, Rakesh V. *see* **Baliga, Sandeep, 2004f:91059**
Wauthy, Xavier J. *see* **Boccard, Nicolas, 2004i:91040**
West, Bruce J. *see* **Scafetta, Nicola et al.**

91B62 Dynamic economic models, growth models

Aadland, David Cattle cycles, heterogeneous expectations and the age distribution of capital. (English summary)
Abe, Naohito The multi-sector business cycle model and aggregate shocks: an empirical analysis. (English summary)
de Abreu Pessôa, Samuel *see* **Barelli, Paulo**
Amilon, Henrik (*with* Bermin, Hans-Peter) Welfare effects of controlling labor supply: an application of the stochastic Ramsey model. (English summary) **2004h:91090**
Arrow, Kenneth J. (*with* Dasgupta, Partha[1]; Mäler, Karl-Göran) The genuine savings criterion and the value of population. (English summary) **2004h:91091**
Asheim, Geir B. Green national accounting with a changing population. (English summary) **2004k:91142**
Auray, Stéphane (*with* Collard, Fabrice; Fève, Patrick) Money and external habit persistence. A tale for chaos. (English summary) **2004b:91127**
Avvakumov, S. N. (*with* Kiselev, Yu. N.) Qualitative study and algorithms in the mathematical model of the innovation diffusion. **2004k:91143**
Barelli, Paulo (*with* de Abreu Pessôa, Samuel) Inada conditions imply that production function must be asymptotically Cobb-Douglas. (English summary)
Basov, Suren Incentives for boundedly rational agents. (English summary) **2004g:91103**
Basu, Kaushik (*with* Mitra, Tapan) Aggregating infinite utility streams with intergenerational equity: the impossibility of being Paretian. (English summary)
Beklaryan, L. A. (*with* Borisova, S. V.) A single-product dynamic model of replacing production capacities. (Russian. Russian summary)
Ben-Gad, Michael Fiscal policy and indeterminacy in models of endogenous growth. (English summary) **2004d:91163**
— The economic effects of immigration—a dynamic analysis. (English summary)
Bermin, Hans-Peter *see* **Amilon, Henrik, 2004h:91090**
Bhatti, M. I. *see* **Jayaraman, Vaidyanathan et al., 2004h:91095**
Blackburn, Keith (*with* Pelloni, Alessandra) On the relationship between growth and volatility. (English summary)
Blake, Andrew P. Open loop time consistency for linear rational expectations models. (English summary) **2004k:91144**
(Boldrin, Michele) *see* **Peralta-Alva, Adrian**
Bond, Eric W. (*with* Trask, Kathleen; Wang, Ping) Factor accumulation and trade: dynamic comparative advantage with endogenous physical and human capital. (English summary) **2004e:91093**
Borisov, K. Yu. A dynamic economic model with a continuum of steady-state equilibria. (Russian) **2004i:91134**
Borisova, S. V. *see* **Beklaryan, L. A.**
Bucci, Alberto (*with* Fiorillo, Fabio; Staffolani, Stefano) Can market power influence employment, wage inequality and growth? (English summary)
Budnyam, S. Nonlinear phenomena in economics. (English summary) (*see* **2004h:90005**)
Burnside, Craig (*with* Eichenbaum, Martin; Fisher, Jonas D. M.) Fiscal shocks and their consequences. (English summary)
Busato, Francesco (*with* Chiarini, Bruno) Market and underground activities in a two-sector dynamic equilibrium model. (English summary)
Cabello, J. G. *see* **Fernández, M. V. et al., (2004h:00021)**
Cai, Dong-han (*with* Zhou, Ming-chun) A two-sector economic growth model with labor force transfer. (English summary)
— *see also* **Ma, Su-yan**
Calzolari, Giacomo Incentive regulation of multinational enterprises. (English summary) **2004j:91184**
Campanha, José R. *see* **Gupta, Hari M., 2004d:91168**
Canova, Fabio Testing for convergence clubs in income per capita: a predictive density approach. (English summary) **2004m:91172**
Cantó, Begoña (*with* Coll, Carmen; de Lima, Teresa P.; Sánchez, Elena) Admissible solution of an N-periodic Leontief dynamic model. (English summary)
Carceles Poveda, Eva Capital adjustment costs and firm risk aversion. (English summary)
Cardia, Emanuela (*with* Michel, Philippe Gaston) Altruism, intergenerational transfers of time and bequests. (English summary) **2004k:91145**
Chae, Suchan Can time preference be an instrument for price discrimination? (English summary)
Chakraborty, Rabindra Nath Short- and long-run effects of environmental degradation: a structuralist approach. (English summary)
Chakraborty, Shankha Endogenous lifetime and economic growth. (English summary)
Chen, Qinghua *see* **Fang, Fukang**
Chiarella, Carl *see* **Szidarovszky, Ferenc, 2004b:91129**
Chiarini, Bruno *see* **Busato, Francesco**
Christiaans, Thomas Types of balanced growth. (English summary)

Chukanov, S. V. Economic behavior and the method of dynamic programming on an infinite time interval. (Russian. English and Russian summaries) **2004g:91104**
Chukwu, Ethelbert Nwakuche Goodness through optimal dynamics of the wealth of nations. (English summary) **2004d:91164**
Coll, Carmen *see* **Cantó, Begoña et al.**
Collard, Fabrice *see* **Auray, Stéphane et al., 2004b:91127**
Colombo, Luca (*with* Weinrich, Gerd) The Phillips curve as a long-run phenomenon in a macroeconomic model with complex dynamics. (English summary) **2004g:91105**
Cowan, Robin (*with* Jonard, Nicolas) Network structure and the diffusion of knowledge. (English summary) **2004m:91173**
Das, Mausumi Optimal growth with decreasing marginal impatience. (English summary) **2004d:91165**
Dasgupta, Partha[1] *see* **Arrow, Kenneth J. et al., 2004h:91091**
Day, Richard H. Complex dynamics, market mediation and stock price behavior. (English summary) **2004d:91166**
Deeba, Elias (*with* Dibeh, Ghassan; Khuri, Suheil A.; Xie, Shishen) Decomposition method for solving a nonlinear business cycle model. (English summary) **2004f:91111**
Dennis, Richard Solving for optimal simple rules in rational expectations models. (English summary) **2004k:91146**
Dibeh, Ghassan *see* **Deeba, Elias et al., 2004f:91111**
Dong, June *see* **Zhang, Ding et al., (2004h:91006)**
Doraszelski, Ulrich Innovations, improvements, and the optimal adoption of new technologies. (English summary)
Du, Juan *see* **Shang, Shengwu et al., 2004g:91114**
Eichenbaum, Martin *see* **Burnside, Craig et al.**
Epstein, Larry G. (*with* Schneider, Martin) Recursive multiple-priors. (English summary) **2004h:91092**
Fang, Fukang (*with* Chen, Qinghua) The J structure in economic evolving process. (English summary)
Fender, John (*with* Wang, Ping) Educational policy in a credit constrained economy with skill heterogeneity. (English summary)
Fernández, M. V. (*with* Cabello, J. G.; Sánchez Gonzalez, Carlos) Long-run dynamic equilibrium in a state-space model under symmetrical controllability. (English summary) (*see* **2004h:00021**)
Fève, Patrick *see* **Auray, Stéphane et al., 2004b:91127**
Fiorillo, Fabio *see* **Bucci, Alberto et al.**
Fisher, Jonas D. M. *see* **Burnside, Craig et al.**
Fleurbaey, Marc (*with* Michel, Philippe Gaston) Intertemporal equity and the extension of the Ramsey criterion. (English summary) **2004i:91135**
Fujita, Masahisa (*with* Thisse, Jacques-François) Does geographical agglomeration Foster economic growth? And who gains and loses from it? (English summary) **2004d:91167**
Fujiwara, Fumiyo (*with* Mimura, Fumitake; Nôno, Takayuki) New derivation of conservation laws in one and two sector growth models. **2004e:91094**
— (*with* Mimura, Fumitake; Nôno, Takayuki) Conservation laws and optimal paths in a growth model with utility polynomial. **2004h:91093**
Gaffney, J. M. (*with* Pearce, Charles E. M.) Nonlinear-cobweb dynamics in the approach to equilibrium. (English summary)
Gallegati, Mauro (*with* Gardini, Laura; Puu, Tönu; Sushko, Irina M.) Hicks' trade cycle revisited: cycles and bifurcations. (English summary) **2004i:91136**
Gardini, Laura *see* **Gallegati, Mauro et al., 2004i:91136**
Geng, Xian Min The mathematical theory on a macro-economy for balanced development. III. (Chinese. English and Chinese summaries)
Ghosh, Sugata (*with* Mourmouras, Iannis A.) Debt, growth and budgetary regimes. (English summary)
Gimatova, È. È. *see* **Gorelik, V. A., 2004j:91185**
Glomm, Gerhard (*with* Kaganovich, M.) Distribution effects of public education in an economy with public pensions. (English summary) **2004f:91112**
Gombi, Ichiro (*with* Ikeda, Shinsuke) Habit formation and the transfer paradox. (English summary) **2004i:91137**
Gómez Suárez, M. A. Optimal fiscal policy in the Uzawa-Lucas model with externalities. (English summary) **2004i:91138**
— Equilibrium dynamics in the one-sector endogenous growth model with physical and human capital. (English summary)
— Optimality of the competitive equilibrium in the Uzawa-Lucas model with sector-specific externalities. (English summary)
Gomis-Porqueras, Pere (*with* Haro, Alex) Global dynamics in macroeconomics: an overlapping generations example. (English summary) **2004g:91106**
Gong, Liutang (*with* Zou, Heng-Fu) A fiscal federalism approach to optimal taxation and intergovernmental transfers in a dynamic model. (English summary) **2004k:91147**
— (*with* Zou, Heng-Fu) Military spending and stochastic growth. (English summary) **2004h:91094**
Gorelik, V. A. (*with* Gimatova, È. È.) Correction methods in the problem of the stability of economic systems. (Russian. Russian summary) **2004j:91185**
Guo, Jang-Ting Increasing returns, capital utilization, and the effects of government spending. (English summary)
Gupta, Hari M. (*with* Campanha, José R.) Firms growth dynamics, competition and power-law scaling. (English summary) **2004d:91168**
Haro, Alex *see* **Gomis-Porqueras, Pere, 2004g:91106**
Hartl, Richard F. (*with* Kort, Peter M.) History dependence without unstable steady state: a non-differentiable framework. (English summary) **2004g:91107**
Haruvy, Ernan (*with* Prasad, Ashutosh; Sethi, Suresh P.) Harvesting altruism in open-source software development. (English summary) **2004g:91108**
Hazari, Bharat R. (*with* Sgro, Pasquale M.) The simple analytics of optimal growth with illegal migrants. (English summary) **2004g:91109**
Hintermaier, Thomas On the minimum degree of returns to scale in sunspot models of the business cycle. (English summary) **2004d:91169**
Hu, Baiding (*with* McAleer, Michael) Input-output structure and growth in China. (English summary)
Hu, Shi Geng *see* **Wu, Fu Ke et al.** *and* **Zhao, Jian Bin et al.**
Huberman, Bernardo A. *see* **Maurer, Sebastian M., 2004f:91114**
Ikeda, Shinsuke *see* **Gombi, Ichiro, 2004i:91137**
Jayaraman, Vaidyanathan (*with* Bhatti, M. I.; Saber, H.) Towards optimal testing of an hypothesis based on dynamic technology transfer model. (English summary) **2004h:91095**
Jian, Ming *see* **Shang, Shengwu et al., 2004g:91114**
Jonard, Nicolas *see* **Cowan, Robin, 2004m:91173**
Kaas, Leo (*with* von Thadden, Leopold) Unemployment, factor substitution and capital formation. (English summary)
Kaganovich, M. *see* **Glomm, Gerhard, 2004f:91112**
Kamihigashi, Takashi Necessity of transversality conditions for stochastic problems. (English summary) **2004d:91170**
Karp, Larry (*with* Lee, In Ho) Time-consistent policies. (English summary) **2004g:91110**
Kasa, Kenneth Learning, large deviations, and recurrent currency crises. (English summary) **2004j:91186**
Kemp, Murray C. (*with* Shimomura, Koji) A dynamic Heckscher-Ohlin model: the case of costly factor reallocation. (English summary)
Kenc, Turalay Taxation, risk-taking and growth: a continuous-time stochastic general equilibrium analysis with labor-leisure choice. (English summary) **2004k:91148**
Khuri, Suheil A. *see* **Deeba, Elias et al., 2004f:91111**
Kiselev, Yu. N. *see* **Avvakumov, S. N., 2004k:91143**
Kort, Peter M. *see* **Hartl, Richard F., 2004g:91107**
Krawczyk, Jacek B. (*with* Shimomura, Koji) Why countries with the same technology and preferences can have different growth rates. (English summary) **2004d:91171**
Kristensen, Gustav (*with* Sushko, Irina M.) Complex market dynamics under Box-Cox monopoly. (English summary) **2004k:91149**
— *see also* **Yanchuk, S. V. et al.**
Laing, Derek (*with* Palivos, Theodore; Wang, Ping) The economics of 'new blood'. (English summary) **2004f:91113**
Laptev, Aleksandr Anatol'evich Analytical investigation of the "political differentiation-degree of adaptation" mathematical model. (Russian. English summary) **2004b:91128**
Lee, In Ho *see* **Karp, Larry, 2004g:91110**
Lei, Dong Xia *see* **Wu, Fu Ke et al.**
(Levine, David K.) *see* **Peralta-Alva, Adrian**
Li, Jenny X. A finite states contraction algorithm for dynamic models. (English summary) **2004j:91187**
de Lima, Teresa P. *see* **Cantó, Begoña et al.**
Linnemann, Ludger (*with* Schabert, Andreas) Can fiscal spending stimulate private consumption? (English summary) **2004j:91188**
Liu, Chunhui *see* **Shang, Shengwu et al., 2004g:91114**
Liu, Jicheng *see* **Xu, Jiu Ping, 2004h:91097**
Lü, Yong *see* **Zhao, Jian Bin et al.**
Ma, Su-yan (*with* Cai, Dong-han) The dynamics of the Uzawa-Lucas model with unskilled labor. (English summary)
Magill, Michael (*with* Quinzii, Martine) Nonshiftable capital, affine price expectations and convergence to the Golden Rule. (English summary) **2004h:91096**
Mäler, Karl-Göran *see* **Arrow, Kenneth J. et al., 2004h:91091**
Maliar, Lilia (*with* Maliar, Serguei) Quasi-geometric discounting: a closed-form solution under the exponential utility function. (English summary)
— (*with* Maliar, Serguei) Indivisible-labor, lotteries and idiosyncratic productivity shocks. (English summary) **2004m:91174**
Maliar, Serguei *see* **Maliar, Lilia, 2004m:91174**
Mamedov, Musa A. A turnpike theorem for continuous-time control systems when the optimal stationary point is not unique. **2004i:91139**
Mateos-Planas, Xavier Longer lives, fertility, and accumulation. (English summary)
Matrossova, Claudia V. Sustainable development in the modified model "World Dynamics". (English summary) **2004d:91172**
Maurer, Sebastian M. (*with* Huberman, Bernardo A.) Competitive dynamics of web sites. (English summary) **2004f:91114**
McAleer, Michael *see* **Hu, Baiding**
Meng, Qinglai (*with* Velasco, Andrés) Indeterminacy in a small open economy with endogenous labor supply. (English summary)
Michel, Philippe Gaston *see* **Fleurbaey, Marc, 2004i:91135** *and* **Cardia, Emanuela, 2004k:91145**
Mimura, Fumitake *see* **Fujiwara, Fumiyo et al., 2004e:91094** *and* **2004h:91093**
Mitra, Tapan Intertemporal equity and efficient allocation of resources. (English summary) **2004a:91093**
— (*with* Montrucchio, Luigi; Privileggi, Fabio) The nature of the steady state in models of optimal growth under uncertainty. (English summary) **2004m:91175**
— *see also* **Basu, Kaushik**
Mohsin, Mohammed Exchange rate policies and endogenous time preference: a dynamic analysis of a small open economy. (English summary) **2004j:91189**
Montrucchio, Luigi *see* **Mitra, Tapan et al., 2004m:91175**
Mookherjee, Dilip (*with* Ray, Debraj) Persistent inequality. (English summary) **2004c:91073**
Mourmouras, Iannis A. *see* **Ghosh, Sugata**
Mureşan, Marian (*with* Vizvári, Béla) A note on the problems of stabilization of economic processes. (English summary) **2004g:91111**
Ni, Shawn (*with* Raymon, Neil) Price uncertainty and consumer welfare in an intertemporal setting. (English summary) **2004k:91150**
Nôno, Takayuki *see* **Fujiwara, Fumiyo et al., 2004e:91094** *and* **2004h:91093**
Norin, Anna *see* **Puu, Tönu, 2004g:91112**
Ntoko, Alfred *see* **Zhang, Ding et al., (2004h:91006)**
Ono, Tetsuo Environmental tax policy in a model of growth cycles. (English summary) **2004k:91151**
Ortigueira, Salvador Equipment prices, human capital and economic growth. (English summary)
Osadchiĭ, M. S. The paradox of planned obsolescence. (Russian. Russian summary) **2004k:91152**
Palivos, Theodore *see* **Laing, Derek et al., 2004f:91113**
Papageorgiou, M. Chaos may be an optimal plan. (English summary) **2004j:91190**

Park, Hyun (*with* Philippopoulos, Apostolis) Indeterminacy and fiscal policies in a growing economy. (English summary)
Pearce, Charles E. M. *see* **Gaffney, J. M.**
Pelloni, Alessandra *see* **Blackburn, Keith**
Peralta-Alva, Adrian Comment on: "Growth cycles and market crashes" [J. Econom. Theory **96** (2001), no. 1-2, 13–39; MR 2001k:91093] by M. Boldrin and D. K. Levine.
Perera-Tallo, Fernando Growth due to globalization. (English summary) **2004d:91173**
Philippopoulos, Apostolis *see* **Park, Hyun**
Prasad, Ashutosh *see* **Haruvy, Ernan et al., 2004g:91108**
Privileggi, Fabio *see* **Mitra, Tapan et al., 2004m:91175**
Puu, Tönu (*with* Norin, Anna) Cournot duopoly when the competitors operate under capacity constraints. (English summary) **2004g:91112**
— (*with* Sushko, Irina M.) A business cycle model with cubic nonlinearity. (English summary)
— *see also* **Gallegati, Mauro et al., 2004i:91136**
Quinzii, Martine *see* **Magill, Michael, 2004h:91096**
Ray, Debraj *see* **Mookherjee, Dilip, 2004c:91073**
Raymon, Neil *see* **Ni, Shawn, 2004k:91150**
Restuccia, Diego Barriers to capital accumulation and aggregate total factor productivity. (English summary)
Roche, Hervé Stochastic growth: a duality approach. (English summary) **2004i:91140**
Rudakov, S. A. Maximum profit as a maximum of an integral functional. (Russian. English and Russian summaries)
Saber, H. *see* **Jayaraman, Vaidyanathan et al., 2004h:91095**
Sánchez, Elena *see* **Cantó, Begoña et al.**
Sánchez Gonzalez, Carlos *see* **Fernández, M. V. et al., (2004h:00021)**
Schabert, Andreas *see* **Linnemann, Ludger, 2004j:91188**
Schmitt-Grohé, Stephanie (*with* Uribe, Martín) Solving dynamic general equilibrium models using a second-order approximation to the policy function. (English summary) **2004g:91113**
Schneider, Martin *see* **Epstein, Larry G., 2004h:91092**
Sethi, Suresh P. Optimal consumption-investment decisions allowing for bankruptcy: a brief survey. (English summary) **2004i:91141**
— *see also* **Haruvy, Ernan et al., 2004g:91108**
Sgro, Pasquale M. *see* **Hazari, Bharat R., 2004g:91109**
Shang, Shengwu (*with* Jian, Ming; Liu, Chunhui; Du, Juan) Postponing retirement and economic growth. (English summary) **2004g:91114**
Shimomura, Koji *see* **Krawczyk, Jacek B., 2004d:91171** *and* **Kemp, Murray C.**
Sorger, Gerhard On the multi-country version of the Solow-Swan model. (English summary) **2004c:91074**
Stachurski, John Stochastic growth: asymptotic distributions. (English summary) **2004i:91142**
— Economic dynamical systems with multiplicative noise. (English summary) **2004d:91174**
Staffolani, Stefano *see* **Bucci, Alberto et al.**
Steigum, Erling (*with* Thøgersen, Øystein) Borrow and adjust: fiscal policy and sectoral adjustment in an open economy. (English summary) **2004d:91175**
Strulik, Holger Capital tax reform, corporate finance, and economic growth and welfare. (English summary) **2004e:91095**
Sushko, Irina M. *see* **Gallegati, Mauro et al., 2004i:91136**; **Kristensen, Gustav, 2004k:91149**; **Yanchuk, S. V. et al.** *and* **Puu, Tönu**
Szidarovszky, Ferenc (*with* Chiarella, Carl) Dynamic oligopolies, stability and bifurcation. (English summary) **2004b:91129**
Szydłowski, Marek Time to build in dynamics of economic models. II. Models of economic growth. (English summary) **2004d:91176**
Tang, Huanwen *see* **Zhou, Peng**
Taras′ev, A. M. (*with* Watanabe, C.) Dynamic optimality principles and sensitivity analysis in models of economic growth. (English summary) **2004e:91096**
von Thadden, Leopold *see* **Kaas, Leo**
Thisse, Jacques-François *see* **Fujita, Masahisa, 2004d:91167**
Thøgersen, Øystein *see* **Steigum, Erling, 2004d:91175**
Trask, Kathleen *see* **Bond, Eric W. et al., 2004e:91093**
Uribe, Martín *see* **Schmitt-Grohé, Stephanie, 2004g:91113**
(Vanderhoof, Irwin T.) *see* **Day, Richard H., 2004d:91166**
Velasco, Andrés *see* **Meng, Qinglai**
Venditti, Alain Altruism and determinacy of equilibria in overlapping generations models with externalities. (English summary) **2004a:91094**
Vizvári, Béla *see* **Mureşan, Marian, 2004g:91111**
Wang, Ping *see* **Bond, Eric W. et al., 2004e:91093**; **Laing, Derek et al., 2004f:91113** *and* **Fender, John**
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Items with secondary classifications in 91B62

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Keane, Michael P. *see* **Geweke, John et al., (2004j:62006)**

Keyzer, Michiel A. *see* **Gerlagh, Reyer, 2004i:91159**

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La Torre, Davide *see* **Ferrara, Massimiliano, 2004b:91130**

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Melitz, Marc J. The impact of trade on intra-industry reallocations and aggregate industry productivity. (English summary) **2004h:91089**

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Oertel, Frank *see* **Korn, Ralf et al., 2004h:91060**

Ono, Masanori A computational approach to liquidity-constrained firms over an infinite horizon. (English summary) **2004i:91166**

Ono, Tetsuo Environmental tax policy and long-run economic growth. (English summary) **2004d:91183**

Plott, Charles R. *see* **Anderson, Christopher M. et al., 2004m:91156**

Popescu, Mariana *see* **Ungureanu, Laura et al., 2004d:34090**

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Puu, Tönu *see* **Sushko, Irina M. et al., 2004k:37194**

Radner, Roy Viscous demand. (English summary) **2004i:91079**

Raïssi, Nadia *see* **Mounir, Jerry, 2004c:91076**

Reffett, Kevin L. *see* **Datta, Manjira et al., 2004b:91123**

Rincón-Zapatero, Juan Pablo (*with* Rodríguez-Palmero, Carlos) Existence and uniqueness of solutions to the Bellman equation in the unbounded case. (English summary) **2004f:49055**

Ríos-Rull, José-Víctor *see* **Klein, Paul, 2004g:91118**

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Schenk-Hoppé, Klaus Reiner Sample-path stability of non-stationary dynamic economic systems. (English summary) **2004d:91187**

Schmedders, Karl *see* **Kubler, Felix, 2004h:91086**

Schneider, Martin *see* **Epstein, Larry G., 2004i:91161**

Shimomura, Ken-Ichi *see* **Anderson, Christopher M. et al., 2004m:91156**

Shone, Ronald ★ Economic dynamics. **2004g:91001**

Silva, Manuela S. (*with* de Lima, Teresa P.) Looking for nonnegative solutions of a Leontief dynamic model. (English summary) **2004c:15039**

Sotomayor, Marilda Reaching the core of the marriage market through a non-revelation matching mechanism. (English summary) **2004j:91200**

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(Stadler, Manfred) *see* **Wapler, Rüdiger, 2004i:91125**

Stapleton, E. J. *see* **Rogers, L. C. G., 2004j:91152**

Strulik, Holger Mortality, the trade-off between child quality and quantity, and demo-economic development. (English summary) **2004i:91126**

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Suárez, Rodolfo *see* **Álvarez-Ramírez, J. et al.**

Sushko, Irina M. (*with* Gardini, Laura; Puu, Tönu) Tongues of periodicity in a family of two-dimensional discontinuous maps of areal Möbius type. (English summary) **2004k:37194**

Szajowski, Piotr *see* **Nowak, Andrzej S., 2004m:91029**

Szidarovszky, Ferenc *see* **Chiarella, Carl, 2004e:91029**

Tahraoui, Rabah *see* **Chazal, Marie et al., 2004f:90031**

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Ungureanu, Laura (*with* Georgescu, Adelina; Popescu, Mariana) Static bifurcation diagram for a microeconomic model. (English summary) **2004d:34090**
Vailakis, Yiannis *see* **Le Van, Cuong, 2004g:91097**
Vanini, Paolo *see* **Trojani, Fabio, 2004j:91156**
Verheyen, Piet A. *see* **Kort, Peter M. et al.**
Volokitin, Evgenii P. (*with* Treskov, S. A.) The bifurcation diagram of a cubic system of Liénard type. (Russian. Russian summary) **2004g:34069**
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Welfe, Aleksander Long-run relationships in the transition economy of Poland: an application of SVEqCM. (English summary) (*see* **2004k:62015**)
Wendner, Ronald *see* **Farmer, Karl, 2004h:91103**
Whitta-Jacobsen, Hans Jørgen *see* **Aloi, Marta et al., 2004d:91177**
Więcek, Piotr Convex stochastic games of capital accumulation with nondivisible money unit. (English summary) **2004b:91022**
Willassen, Yngve On the economics of the optimal fallow-cultivation cycle. (English summary) **2004m:91191**
Wilson, Bonnie *see* **Krebs, Tom, 2004f:91077**
Withagen, Cees (*with* Asheim, Geir B.; Buchholz, Wolfgang) Maximin, discounting, and separating hyperplanes.
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Wojciechowski, Winicjusz *see* **Hołyst, Janusz A., 2004k:91077**
Wolman, Alexander L. *see* **Khan, Aubhik et al., 2004i:91150**
Woodford, Michael Optimal interest-rate smoothing. (English summary) **2004i:91153**
Wu, He Cheng (*with* Zheng, Chui Yong) An exponential-distribution-based input-output model. (Chinese. English and Chinese summaries)
Yoshida, Hiroyuki[2] *see* **Asada, Toichiro, 2004j:91196**
Zaslavski, Alexander J. Turnpike property for infinite dimensional convex discrete-time control systems in a Banach space. (English summary) **2004c:49059**
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Zeif, Y. *see* **Gaitsgory, Vladimir, 2004j:91041**
Zhao, Mei Hua *see* **Zhao, Wei Rui et al.**
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Symposium:
Dynamical Systems Subject to Random Shock ★ Symposium on Dynamical Systems Subject to Random Shock.
Theories of economic growth—recent developments ★ Theories of economic growth—recent developments.

91B64 Macro-economic models (monetary models, models of taxation)

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Albanesi, Stefania (*with* Chari, V. V.; Christiano, Lawrence J.) Expectation traps and monetary policy. (English summary) **2004i:91146**
Alexopoulos, Michelle (*with* Cohen, Jon S.) What's wrong with forced wage compression? The fair wage hypothesis redux. (English summary) **2004m:91178**
Aloi, Marta (*with* Lloyd-Braga, Teresa; Whitta-Jacobsen, Hans Jørgen) Endogenous business cycles and systematic stabilization policy. (English summary) **2004d:91177**
Alvarez, Fernando (*with* Kehoe, Patrick J.; Neumeyer, Pablo Andrés) The time consistency of optimal monetary and fiscal policies. (English summary) **2004j:91191**
Bar-Ilan, Avner (*with* Perry, David; Stadje, Wolfgang) A generalized impulse control model of cash management. (English summary)
Batini, Nicoletta (*with* Harrison, Richard[2]; Millard, Stephen P.) Monetary policy rules for an open economy. (English summary) **2004f:91116**
Boinet, Virginie Partial delegation in a model of currency crisis. (English summary)
Braun, Dieter *see* **Fischer, Robert, 2004d:91181**
Brüggemann, Imke Measuring monetary policy in Germany: a structural vector error correction approach. (English summary) **2004h:91098**
Buffie, Edward F. Policy rules and monetarist arithmetic. (English summary) **2004h:91099**
Camera, Gabriele (*with* Reed, Robert R.; Waller, Christopher J.) Can monetizing trade lower welfare? An example. (English summary) **2004i:91147**
Chadha, Jagjit S. (*with* Nolan, Charles) Interest rate bounds and fiscal policy. (English summary)
Chakravarty, Satya R. (*with* Moyes, Patrick) Individual welfare, social deprivation and income taxation. (English summary) **2004d:91178**
Chari, V. V. *see* **Albanesi, Stefania et al., 2004i:91146**
Chiades, Paolo (*with* Gambacorta, Leonardo) The Bernanke and Blinder model in an open economy: the Italian case. (English summary) **2004j:91192**
Chiarella, Carl (*with* Flaschel, Peter; Gong, Gang; Semmler, Willi) Nonlinear Phillips curves, complex dynamics and monetary policy in a Keynesian macro model. (English summary) **2004g:91115**
Chisik, Richard (*with* Davies, Ronald B.) Gradualism in tax treaties with irreversible foreign direct investment. (English summary) **2004j:91193**
Choi, Seungmook S. (*with* Marcozzi, Michael D.) The valuation of foreign currency options under stochastic interest rates. (English summary)
Christiano, Lawrence J. *see* **Albanesi, Stefania et al., 2004i:91146**
Christodoulou, Christodoulos *see* **Siokis, Fotios**
Cohen, Jon S. *see* **Alexopoulos, Michelle, 2004m:91178**
Cooley, Thomas F. (*with* Quadrini, Vincenzo) Common currencies vs. monetary independence. (English summary)
Cooper, Russell (*with* Kempf, Hubert) Overturning Mundell: fiscal policy in a monetary union. (English summary) **2004m:91179**
Corbae, Dean (*with* Temzelides, Ted; Wright, Randall) Directed matching and monetary exchange. (English summary) **2004d:91179**
Corrado, Luisa (*with* Holly, Sean) Nonlinear Phillips curves, mixing feedback rules and the distribution of inflation and output. (English summary)
Correia, Isabel *see* **Adão, Bernardino et al., 2004i:91145**
Corsetti, Giancarlo (*with* Dasgupta, Amil; Morris, Stephen E.; Shin, Hyun Song) Does one Soros make a difference? A theory of currency crises with large and small traders. (English summary) **2004j:91194**
Costello, Christopher (*with* Karp, Larry) Dynamic taxes and quotas with learning. (English summary) **2004k:91156**
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Khan, Aubhik (*with* King, Robert G.; Wolman, Alexander L.) Optimal monetary policy. (English summary) **2004i:91150**
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Nolan, Charles *see* **Chadha, Jagjit S.**
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Ono, Tetsuo Environmental tax policy and long-run economic growth. (English summary) **2004d:91183**
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Perry, David *see* **Bar-Ilan, Avner et al.**
Quadrini, Vincenzo *see* **Cooley, Thomas F.**
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Schwager, Robert *see* **Gaube, Thomas, 2004b:91132**
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Optimal monetary policy ★ {Optimal monetary policy}.

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91B66 Multisectoral models

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de la Croix, David *see* **Boucekkine, Raouf, 2004f:91118**
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Yoshida, Hiroyuki[2] *see* **Asada, Toichiro, 2004j:91196**

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Liu, Jicheng *see* **Xu, Jiu Ping**, **2004h:91097**
Millard, Stephen P. *see* **Batini, Nicoletta et al.**, **2004f:91116**
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Trask, Kathleen *see* **Bond, Eric W. et al.**, **2004e:91093**
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91B68 Matching models

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Sato, Takashi *see* **Kamiya, Kazuya**, **2004m:91184**
Seshadri, A. *see* **Durlauf, Steven**, **2004h:91104**
Sotomayor, Marilda Reaching the core of the marriage market through a non-revelation matching mechanism. (English summary) **2004j:91200**
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Voorneveld, Mark *see* **Droste, Edward et al.**, **2004m:91180**
Wallace, Neil *see* **Katzman, Brett et al.**, **2004d:91186**
Waller, Christopher J. *see* **Camera, Gabriele et al.**, **2004g:91119**
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Pápai, Szilvia Strategyproof exchange of indivisible goods. (English summary) **2004g:91062**
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91B70 Stochastic models

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91B72 Spatial models

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91B74 Models of real-world systems

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91B76 Environmental economics (natural resource models, harvesting, pollution, etc.)

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Tobiason, Glory A. *see* **Schreiber, Sebastian J.**, **2004g:92048**
Toint, Philippe L. *see* **Germain, Marc et al.**, **2004g:91030**
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Färe, Rolf *see* **Balk, Bert M. et al., 2004k:91160**
Grosskopf, Shawna *see* **Balk, Bert M. et al., 2004k:91160**
Hansen, Karsten T. *see* **Carneiro, Pedro et al., 2004e:91100**
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Pashardes, Panos *see* **Lyssiotou, Panayiota, 2004j:91205**
Poutineau, Jean-Christophe *see* **Boussemart, Jean-Philippe et al., 2004i:91160**
Schluter, Christian (*with* Trede, Mark) Local versus global assessment of mobility. (English summary) **2004i:91162**
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Pinquet, Jean *see* **Bolancé, Catalina et al.**
Ridder, Geert *see* **Hirano, Keisuke et al., 2004e:62073**
Sandow, Sven *see* **Friedman, Craig, 2004d:91104**
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91B84 Economic time series analysis [see also 62M10]

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Krämer, Walter (*with* Marmol, Francesc) The power of residual-based tests for cointegration when residuals are fractionally integrated. (English summary) **2004m:91193**

Kullmann, László *see* **Kertész, János et al.**

Kutner, Ryszard (*with* Świtała, Filip) Stochastic simulations of time series within Weierstrass-Mandelbrot walks. (English summary) **2004b:91134**

Lillo, Fabrizio *see* **Miccichè, Salvatore et al.**

Liu, Xiao Mao (*with* Zhang, Jun[7]) Moving average model of nonsynchronous trading. (English and Chinese summaries) **2004d:91191**

Maekawa, Koichi (*with* He, Zonglu; Tee, Kianheng) Estimating break points in a time series regression with structural changes. (English summary)

Mantegna, Rosario N. *see* **Miccichè, Salvatore et al.**

Marček, Dušan Determination of fuzzy relations for economic fuzzy time series models by neural networks. (English summary) **2004m:91194**

Marinova, Dora *see* **Chan, Felix et al.**

Marmol, Francesc *see* **Krämer, Walter, 2004m:91193**

McAleer, Michael *see* **Chan, Felix et al.**

Miccichè, Salvatore (*with* Bonanno, Giovanni; Lillo, Fabrizio; Mantegna, Rosario N.) Degree stability of a minimum spanning tree of price return and volatility. (English summary)

Molyboha, Anton *see* **Emmenegger, Jean-François et al.**

Moosa, Imad A. (*with* Silvapulle, Param; Silvapulle, Mervyn) Testing for temporal asymmetry in the price-volume relationship. (English summary) **2004h:91106**

Morimune, Kimio *see* **Murasawa, Yasutomo**

Murasawa, Yasutomo (*with* Morimune, Kimio) Distribution-free statistical inference for generalized Lorenz dominance based on grouped data. (English summary)

Ono, Masanori A computational approach to liquidity-constrained firms over an infinite horizon. (English summary) **2004i:91166**

Pérez, María-Teresa *see* **Coakley, Jerry et al.**

Robinson, Peter M. (*with* Hualde, J.) Cointegration in fractional systems with unknown integration orders. (English summary) **2004k:91164**

Seo, Byeongseon Nonlinear mean reversion in the term structure of interest rates. (English summary) **2004f:91123**

Shang, Jen S. (*with* Tadikamalla, Pandu R.) Modeling financial series distributions: a versatile data fitting approach. (English summary)

Silvapulle, Mervyn *see* **Moosa, Imad A. et al., 2004h:91106**

Silvapulle, Param *see* **Moosa, Imad A. et al., 2004h:91106**

Smith, Peter N. (*with* Wickens, Michael) Asset pricing with observable stochastic discount factors. (*see* **2004j:62007**)

Soriano, Angel *see* **Álvarez-Ramírez, J. et al., 2004d:91189**

Sornette, Didier (*with* Takayasu, Hideki; Zhou, Wei Xing) Finite-time singularity signature of hyperinflation. (English summary) **2004g:91124**

Suárez, Rodolfo *see* **Álvarez-Ramírez, J. et al., 2004d:91189**

Świtała, Filip *see* **Kutner, Ryszard, 2004b:91134**

Tadikamalla, Pandu R. *see* **Shang, Jen S.**

Takayasu, Hideki *see* **Sornette, Didier et al., 2004g:91124**

Tang, Lei-Han Langevin modelling of high-frequency Hang-Seng index data. (English summary)

Tee, Kianheng *see* **Maekawa, Koichi et al.**

Waggoner, Daniel F. (*with* Zha, Tao) A Gibbs sampler for structural vector autoregressions. (English summary) **2004g:91125**

Wickens, Michael *see* **Smith, Peter N., (2004j:62007)**

Wu, K. H. *see* **Chan, Wai-sum et al.**

Zawadowski, Adam G. *see* **Kertész, János et al.**

Zha, Tao *see* **Waggoner, Daniel F., 2004g:91125**

Zhang, Jun[7] *see* **Liu, Xiao Mao, 2004d:91191**

Zhou, Wei Xing *see* **Sornette, Didier et al., 2004g:91124**

Items with secondary classifications in 91B84

Alcalá, José T. *see* **Olave Rubio, María Pilar, (2004k:62008)**

Al-Eideh, Basel M. (*with* Al-Refai, Ahmad S. A.; Sbeiti, Wafaa M.) Modelling the CPI using a lognormal diffusion process and implications on forecasting inflation. (English summary)

Alhemoud, Abdulla M. *see* **Alnahas, Abdulkarim S., 2004d:91152**

Allal, J. (*with* Kaaouachi, A.; Melhaoui, S.) On adaptive estimation based on ranks in ARMA processes. (English summary) **2004k:62190**

Alnahas, Abdulkarim S. (*with* Alhemoud, Abdulla M.) Fluctuations in oil revenue prices and its effect on consumer expenditures: a theoretical mathematical model. (English summary) **2004d:91152**

Al-Refai, Ahmad S. A. *see* **Al-Eideh, Basel M. et al.**

Altay-Salih, Aslıhan (*with* Pinar, Mustafa Çelebi; Leyffer, Sven) Constrained nonlinear programming for volatility estimation with GARCH models. (English summary) **2004m:90138**

Alvarez, Susana *see* **Baixauli, J. Samuel**

Anderson, Christopher M. (*with* Plott, Charles R.; Shimomura, Ken-Ichi; Granat, Sander) Global instability in experimental general equilibrium: the Scarf example. (English summary) **2004m:91156**

Aparicio, Teresa (*with* Villanua Martin, Inmaculada) Multivariate linear regression model. (*see* **2004k:62008**)

Atiya, Amir F. *see* **Magdon-Ismail, Malik**

Bachrach, Daniel G. *see* **Bendoly, Elliot, 2004b:90053**

Bai, Xuezheng (*with* Russell, Jeffrey R.; Tiao, George C.) Kurtosis of GARCH and stochastic volatility models with non-normal innovations. (English summary) **2004a:62150**

Baixauli, J. Samuel (*with* Alvarez, Susana) Analysis of the conditional stock-return distribution under incomplete specification. (English summary)

Balaban, Ercan Comparative forecasting performance of symmetric and asymmetric conditional volatility models of an exchange rate. (English summary)

(Baltagi, Badi H.) *see* **Companion to theoretical econometrics, 2004j:62006**

Bauwens, Luc (*with* Veredas, David) The stochastic conditional duration model: a latent variable model for the analysis of financial durations. (English summary)

Bendoly, Elliot (*with* Bachrach, Daniel G.) A process-based model for priority convergence in multi-period group decision-making. (English summary) **2004b:90053**

Bertail, Patrice (*with* Haefke, Christian; Politis, Dimitris N.; White, Halbert) Subsampling the distribution of diverging statistics with applications to finance. (English summary)

Bierens, Herman J. Unit roots. (*see* **2004j:62006**)

Bilodeau, Jean-François *see* **Khalaf, Lynda et al., 2004g:62161**

Borovkova, Svetlana Detecting changes in term structure from financial time series. (English summary)

Brito, Margarida (*with* Moreira Freitas, Ana Cristina) Limiting behaviour of a geometric-type estimator for tail indices. (English summary) **2004k:62100**

Broszkiewicz-Suwaj, E. (*with* Makagon, A.; Weron, Rafał; Wyłomańska, A.) On detecting and modeling periodic correlation in financial data. (English summary)

Brüggemann, Imke Measuring monetary policy in Germany: a structural vector error correction approach. (English summary) **2004h:91098**

Brüggemann, Ralf ★ Model reduction methods for vector autoregressive processes. **2004k:91004**

Burnside, Craig (*with* Eichenbaum, Martin; Fisher, Jonas D. M.) Fiscal shocks and their consequences. (English summary)

Cajueiro, Daniel O. (*with* Tabak, Benjamin M.) The Hurst exponent over time: testing the assertion that emerging markets are becoming more efficient. (English summary)

Cameron, A. Colin (*with* Trivedi, Pravin K.) Essentials of count data regression. (*see* **2004j:62006**)

Canova, Fabio Testing for convergence clubs in income per capita: a predictive density approach. (English summary) **2004m:91172**

Challe, Edouard Sunspots and predictable asset returns. (English summary)

Chen, Chunhang Statistical and probabilistic models for stock prices: a review. **2004m:91104**

Chen, Rong[1] (*with* Schulz, Rainer; Stephan, Sabine) Multiplicative SARIMA models. (*see* **2004k:62008**)

Chen, Tuhao J. (*with* Gupta, Arjun K.; Troskie, Cas G.) The distribution of stock returns when the market is up. (English summary) **2004e:62041**

Chen, Zehua Ranked set sampling: a methodology for observational economy. (English summary) **2004k:62031**

Clémençon, Stéphan (*with* Slim, Skander) Statistical analysis of financial time series under the assumption of local stationarity. (English summary)

Cont, Rama (*with* Tankov, Peter) ★ Financial modelling with jump processes. **2004m:91004**
Crowder, Martin J. *see* **Stephens, David A. et al.**
Dellaportas, Petros *see* **Stephens, David A. et al.**
van Dijk, Dick (*with* Strikholm, Birgit; Teräsvirta, Timo) The effects of institutional and technological change and business cycle fluctuations on seasonal patterns in quarterly industrial production series. (English summary)
Dolado, Juan J. (*with* Gonzalo, Jesús; Marmol, Francesc) Cointegration. (*see* **2004j:62006**)
Dong, Xian Feng *see* **Tian, Ping et al., 2004d:62322**
Drees, Holger Extreme quantile estimation for dependent data, with applications to finance. (English summary) **2004e:62152**
Dufour, Jean-Marie (*with* Khalaf, Lynda) Monte Carlo test methods in econometrics. (*see* **2004j:62006**)
Eichenbaum, Martin *see* **Burnside, Craig et al.**
Elliott, Graham *see* **Müller, Ulrich K., 2004h:62160**
Epstein, Larry G. (*with* Schneider, Martin) Recursive multiple-priors. (English summary) **2004h:91092**
Evans, A. K. *see* **London, M. D. et al., 2004h:62159**
Ferreira, Fernando F. (*with* Francisco, Gerson; Machado, Birajara S.; Muruganandam, Paulsamy) Time series analysis for minority game simulations of financial markets. (English summary) **2004c:91049**
Fiebig, Denzil G. Seemingly unrelated regression. (*see* **2004j:62006**)
Fisher, Jonas D. M. *see* **Burnside, Craig et al.**
Fong, Pak Wing (*with* Li, Wai-Keung) On time series with randomized unit root and randomized seasonal unit root. (English summary) **2004f:62167**
Fotakis, Dimitris A. (*with* Kontogiannis, Spyros; Koutsoupias, Elias; Mavronicolas, Marios; Spirakis, Paul G.) The structure and complexity of Nash equilibria for a selfish routing game. (English summary)
Francisco, Gerson *see* **Ferreira, Fernando F. et al., 2004c:91049**
Garrett, Thomas A. Aggregated versus disaggregated data in regression analysis: implications for inference. (English summary)
Geweke, John (*with* Houser, Daniel; Keane, Michael P.) Simulation based inference for dynamic multinomial choice models. (*see* **2004j:62006**)
Ghysels, Eric (*with* Osborn, Denise R.; Rodrigues, Paulo M. M.) Seasonal nonstationarity and near-nonstationarity. (*see* **2004j:62006**)
— (*with* Gouriéroux, Christian; Jasiak, Joann) Stochastic volatility duration models. (English summary)
González, Pilar *see* **Moral, Paz, (2004k:62008)**
Gonzalo, Jesús *see* **Dolado, Juan J. et al., (2004j:62006)**
Gouriéroux, Christian (*with* Jasiak, Joann) Durations. (*see* **2004j:62006**)
— *see also* **Ghysels, Eric et al.**
Granat, Sander *see* **Anderson, Christopher M. et al., 2004m:91156**
Granger, Clive W. J. Spurious regressions in econometrics. (*see* **2004j:62006**)
Guhr, Thomas (*with* Kälber, Bernd) A new method to estimate the noise in financial correlation matrices. (English summary) **2004h:91053**
Gupta, Arjun K. *see* **Chen, Tuhao J. et al., 2004e:62041**
Haberman, Steven *see* **Renshaw, A. E.**
Haefke, Christian *see* **Bertail, Patrice et al.**
Hall, Alastair R. (*with* Inoue, Atsushi[4]) The large sample behaviour of the generalized method of moments estimator in misspecified models. (English summary) **2004b:62061**
Han, Kwang-Hee Almost sure convergence for a linear process generated by NA sequence. (English summary) **2004m:60061**
Hanel, Rudolf *see* **Thurner, Stefan et al.**
(Hansen, Gerd) *see* **Contributions to modern econometrics, 2004k:62015**
Hansen, Peter Reinhard Structural changes in the cointegrated vector autoregressive model. (English summary) **2004d:62299**
Haupt, Harry (*with* Oberhofer, Walter; Reichsthaler, Thomas) A varying-coefficient approach to estimation and extrapolation of household size. (English summary)
Hendry, David Forbes J. Denis Sargan and the origins of LSE econometric methodology. **2004e:01045**
Houser, Daniel *see* **Geweke, John et al., (2004j:62006)**
Hsu, Yu-Yun (*with* Tse, Sze-Man; Wu, Berlin) A new approach of bivariate fuzzy time series analysis to the forecasting of a stock index. (English summary)
Huang, Wei[5] (*with* Nakamori, Yoshiteru; Wang, Shou Yang; Yu, Lean) Forecasting Nikkei 225 index with support vector machine. (English summary)
Huang, Xiao Wei *see* **Tian, Ping et al., 2004d:62322**
Hughes, Anthony W. (*with* King, Maxwell L.; Kwek, Kian Teng) Selecting the order of an ARCH model. (English summary)
Inoue, Atsushi[4] *see* **Hall, Alastair R., 2004b:62061**
d'Italia, Banca *see* **Zaffaroni, Paolo, 2004e:62031**
Jasiak, Joann *see* **Gouriéroux, Christian, (2004j:62006)** *and* **Ghysels, Eric et al.**
Jensen, Søren Tolver (*with* Rahbek, Anders) Asymptotic normality of the QMLE estimator of ARCH in the nonstationary case. (English summary) **2004j:62182**
Joshi, Kiran Lata *see* **Varma, Sushama K.**
Kaaouachi, A. *see* **Allal, J. et al., 2004k:62190**
Kälber, Bernd *see* **Guhr, Thomas, 2004h:91053**
Karagrigoriou, Alex (*with* Lee, Sangyeol) On the use of model selection in multivariate processes with applications in economics. (English summary) **2004i:62104**
Kaščelan, Ljiljana Financial crises prediction with linear time-series models. (English summary)
Keane, Michael P. *see* **Geweke, John et al., (2004j:62006)**
Khalaf, Lynda (*with* Saphores, Jean-Daniel; Bilodeau, Jean-François) Simulation-based exact jump tests in models with conditional heteroskedasticity. (English summary) **2004g:62161**
— *see also* **Dufour, Jean-Marie, (2004j:62006)**
King, Maxwell L. Serial correlation. (*see* **2004j:62006**)
— *see also* **Hughes, Anthony W. et al.**
(Klein, Ingo) *see* **Contributions to modern econometrics, 2004k:62015**
Kohn, Karsten (*with* Missong, Martin) Household budget data and welfare comparisons—a reconciliation. (English summary) (*see* **2004k:62015**)
Kongsted, Hans Christian An $I(2)$ cointegration analysis of small-country import price determination. (English summary)
Kontogiannis, Spyros *see* **Fotakis, Dimitris A. et al.**
Koutsoupias, Elias *see* **Fotakis, Dimitris A. et al.**
Krause, Andreas Inventory effects on daily returns in financial markets. (English summary) **2004i:91089**
Kwek, Kian Teng *see* **Hughes, Anthony W. et al.**
Laws, Jason (*with* Thompson, John L.) The efficiency of financial futures markets: tests of prediction accuracy. (English summary)
Lee, Sangyeol *see* **Karagrigoriou, Alex, 2004i:62104**
Leontitsis, Alexandros A note on shuffled financial surrogates. (English summary)
Leybourne, Stephen (*with* Taylor, A. M. Robert) On tests for changes in persistence. (English summary)
Leyffer, Sven *see* **Altay-Salih, Aslıhan et al., 2004m:90138**
Li, Wai-Keung (*with* Yu, Philip L. H.) On the residual autocorrelation of the autoregressive conditional duration model. (English summary) **2004a:62160**
— *see also* **Fong, Pak Wing, 2004f:62167**
Liang, Yan Chun (*with* Sun, Yan Feng) An improved method of support vector machine and its applications to financial time series forecasting. (English summary) **2004g:62016**
Lien, Da-Hsiang Donald (*with* Tse, Y. K.) Some recent developments in futures hedging. (*see* **2004j:62007**)
Liu, Guo Xiang[2] The statistical basics of technical analysis of financial markets. (Chinese. English and Chinese summaries)
London, M. D. (*with* Evans, A. K.; Turner, Martin J.) Why study financial time series? (English summary) **2004h:62159**
López, Ana Jesús *see* **Presno, María José, 2004f:62174**
Lütkepohl, Helmut Vector autoregressions. (*see* **2004j:62006**)
Machado, Birajara S. *see* **Ferreira, Fernando F. et al., 2004c:91049**
Magdon-Ismail, Malik (*with* Atiya, Amir F.) A maximum likelihood approach to volatility estimation for a Brownian motion using high, low and close price data. (English summary)
Makagon, A. *see* **Broszkiewicz-Suwaj, E. et al.**
Marmol, Francesc *see* **Dolado, Juan J. et al., (2004j:62006)**
Matzkin, Rosa L. Nonparametric estimation of nonadditive random functions. (English summary) **2004g:62074**
Mavronicolas, Marios *see* **Fotakis, Dimitris A. et al.**
McAleer, Michael *see* **Verhoeven, Peter**
McCrorie, J. Roderick The problem of aliasing in identifying finite parameter continuous time stochastic models. (English summary) **2004i:62165**
McGarry, J. S. The exact discrete time representation of a system of fourth-order differential equations. (English summary)
Melamed, Benjamin Modeling financial time series using ARM processes. (English summary) **2004d:91123**
Melhaoui, S. *see* **Allal, J. et al., 2004k:62190**
Missong, Martin *see* **Kohn, Karsten, (2004k:62015)**
(Mittnik, Stefan) *see* **Contributions to modern econometrics, 2004k:62015**
Moral, Paz (*with* González, Pilar) Univariate time series modelling. (*see* **2004k:62008**)
Moral-Arce, Ignacio (*with* Rodríguez-Póo, Juan) Univariate linear regression model. (*see* **2004k:62008**)
Moraux, Franck (*with* Villa, Christophe) The dynamics of the term structure of interest rates: an independent component analysis. (English summary) (*see* **2004m:91008**)
Moreira Freitas, Ana Cristina *see* **Brito, Margarida, 2004k:62100**
Morettin, Pedro A. ★ Séries temporais em finanças. (Portuguese) [Financial time series] **2004d:91125**
Müller, Ulrich K. (*with* Elliott, Graham) Tests for unit roots and the initial condition. (English summary) **2004h:62160**
Muruganandam, Paulsamy *see* **Ferreira, Fernando F. et al., 2004c:91049**
Nakamori, Yoshiteru *see* **Huang, Wei[5] et al.**
Nielsen, Morten Ørregaard Spectral analysis of fractionally cointegrated systems. (English summary)
Obata, Tsuneshi *see* **Shiraishi, Shunsuke**
Oberhofer, Walter *see* **Haupt, Harry et al.**
Olave Rubio, María Pilar (*with* Alcalá, José T.) Autoregressive conditional heteroscedastic models. (*see* **2004k:62008**)
Osborn, Denise R. *see* **Ghysels, Eric et al., (2004j:62006)**
Phillips, Peter C. B. *see* **Ploberger, Werner, 2004b:62203**
Piacenza, Massimiliano (*with* Vannoni, Davide) Choosing among alternative cost function specifications: an application to Italian multi-utilities. (English summary)
Pichler, Stefan *see* **Thurner, Stefan et al.**
Pinar, Mustafa Çelebi *see* **Altay-Salih, Aslıhan et al., 2004m:90138**
Ploberger, Werner (*with* Phillips, Peter C. B.) Empirical limits for time series econometric models. (English summary) **2004b:62203**
Plott, Charles R. *see* **Anderson, Christopher M. et al., 2004m:91156**
Politis, Dimitris N. *see* **Bertail, Patrice et al.**
Pontier, Monique Why heavy tails in financial series? Estimations and tests. (English summary) **2004i:91093**
Presno, María José (*with* López, Ana Jesús) Testing for stationarity in series with a shift in the mean. A Fredholm approach. (English summary) **2004f:62174**
Rahbek, Anders *see* **Jensen, Søren Tolver, 2004j:62182**
Reichsthaler, Thomas *see* **Haupt, Harry et al.**
Renò, Roberto (*with* Rizza, Rosario) Is volatility lognormal? Evidence from Italian futures. (English summary) **2004d:91128**
Renshaw, A. E. (*with* Haberman, Steven) Lee-Carter mortality forecasting with age-specific enhancement. (English summary)
Rizza, Rosario *see* **Renò, Roberto, 2004d:91128**
Robinson, Peter M. Denis Sargan: some perspectives. (English summary) **2004e:01052**
Rodrigues, Paulo M. M. *see* **Ghysels, Eric et al., (2004j:62006)**

Rodríguez-Póo, Juan *see* **Computer-aided introduction to econometrics, 2004k:62008** *and* **Moral-Arce, Ignacio, (2004k:62008)**
Russell, Jeffrey R. *see* **Bai, Xuezheng et al., 2004a:62150**
(Sakalauskas, L.) *see* **Financial risk in open economies**
Samanta, Gobinda Prasad Forecasting inflation rate by STAR model: an Indian experience. (English summary)
Saphores, Jean-Daniel *see* **Khalaf, Lynda et al., 2004g:62161**
(Sargan, John Denis) *see* **Hendry, David Forbes, 2004e:01045** *and* **Robinson, Peter M., 2004e:01052**
Sayan, Serdar *see* **Turhan-Sayan, Gonul, 2004j:91157**
Sbeiti, Wafaa M. *see* **Al-Eideh, Basel M. et al.**
Scaillet, O. Nonparametric estimation and sensitivity analysis of expected shortfall. (English summary)
Schipper, S. (*with* Schmid, Wolfgang P.) Control charts for GARCH processes. (English summary) **2004f:91084**
Schmid, Wolfgang P. *see* **Schipper, S., 2004f:91084**
Schneider, Martin *see* **Epstein, Larry G., 2004h:91092**
Schulz, Rainer *see* **Chen, Rong[1] et al., (2004k:62008)**
Shimomura, Ken-Ichi *see* **Anderson, Christopher M. et al., 2004m:91156**
Shiraishi, Shunsuke (*with* Obata, Tsuneshi) On a maximization problem arising from a positive reciprocal matrix in AHP. (English summary)
Slim, Skander *see* **Clémençon, Stéphan**
Spanos, Aris Time series and dynamic models. (*see* **2004j:62006**)
Spirakis, Paul G. *see* **Fotakis, Dimitris A. et al.**
Stadie, Andreas Detecting periods in which a time series model fails to predict the observed volatility. (English summary)
Stephan, Sabine *see* **Chen, Rong[1] et al., (2004k:62008)**
Stephens, David A. (*with* Crowder, Martin J.; Dellaportas, Petros) Quantification of automobile insurance liability: a Bayesian failure time approach. (English summary)
Stock, James H. Forecasting economic time series. (*see* **2004j:62006**)
Storti, Giuseppe (*with* Vitale, Cosimo) Likelihood inference in BL-GARCH models. (English summary)
Strikholm, Birgit *see* **van Dijk, Dick et al.**
Sun, Yan Feng *see* **Liang, Yan Chun, 2004g:62016**
Surgailis, Donatas (*with* Viano, Marie-Claude) Long memory properties and covariance structure of the EGARCH model. (English summary) **2004b:60099**
Svensson, Lars E. O. (*with* Woodford, Michael) Indicator variables for optimal policy under asymmetric information. (English summary)
Swamy, P. A. V. B. (*with* Tavlas, George S.) Random coefficient models. (*see* **2004j:62006**)
Tabak, Benjamin M. *see* **Cajueiro, Daniel O.**
Takeuchi, Yoshiyuki[1] On a statistical method to detect discontinuity in the distribution function of reported earnings. (English summary)
Tankov, Peter *see* **Cont, Rama, 2004m:91004**
Tavlas, George S. *see* **Swamy, P. A. V. B., (2004j:62006)**
Taylor, A. M. Robert *see* **Leybourne, Stephen**
Teräsvirta, Timo *see* **van Dijk, Dick et al.**
Thompson, John L. *see* **Laws, Jason**
Thurner, Stefan (*with* Hanel, Rudolf; Pichler, Stefan) Risk trading, network topology and banking regulation. (English summary)
Tian, Ping (*with* Dong, Xian Feng; Wang, De Hui; Huang, Xiao Wei) An estimation method for the AR(p) model with one datum or two consecutive data missing. (Chinese. English and Chinese summaries) **2004d:62322**
Tiao, George C. *see* **Bai, Xuezheng et al., 2004a:62150**
Tödter, Karl-Heinz Exponential smoothing as an alternative to the Hodrick-Prescott filter? (English summary) (*see* **2004k:62015**)
Tong, Howell Nonlinear time series analysis since 1990: some personal reflections. (English summary)
Trivedi, Pravin K. *see* **Cameron, A. Colin, (2004j:62006)**
Troskie, Cas G. *see* **Chen, Tuhao J. et al., 2004e:62041**
Tse, Sze-Man *see* **Hsu, Yu-Yun et al.**
Tse, Y. K. *see* **Lien, Da-Hsiang Donald, (2004j:62007)**
Turhan-Sayan, Gonul (*with* Sayan, Serdar) Use of time-frequency representations in the analysis of stock market data. (English summary) **2004j:91157**
Turner, Martin J. *see* **London, M. D. et al., 2004h:62159**
Vannoni, Davide *see* **Piacenza, Massimiliano**
Varma, Sushama K. (*with* Joshi, Kiran Lata) On measure of income inequality through Burg's entropy. (English summary)
Veredas, David *see* **Bauwens, Luc**
Verhoeven, Peter (*with* McAleer, Michael) Fat tails and asymmetry in financial volatility models. (Engiish summary)
Viano, Marie-Claude *see* **Surgailis, Donatas, 2004b:60099**
Villa, Christophe *see* **Moraux, Franck, (2004m:91008)**
Villanua Martin, Inmaculada *see* **Aparicio, Teresa, (2004k:62008)**
Vitale, Cosimo *see* **Storti, Giuseppe**
Wago, Hajime Bayesian estimation of smooth transition GARCH model using Gibbs sampling. (English summary)
Walker, Agnes E. Modelling health inequalities using dynamic microsimulation: statistical issues and future scope. (English summary)
Wang, De Hui *see* **Tian, Ping et al., 2004d:62322**
Wang, Jiahui *see* **Zivot, Eric, 2004f:62011**
Wang, Shou Yang *see* **Huang, Wei[5] et al.**
Weron, Rafał *see* **Broszkiewicz-Suwaj, E. et al.**
White, Halbert *see* **Bertail, Patrice et al.**
Woodford, Michael *see* **Svensson, Lars E. O.**
Wu, Berlin *see* **Hsu, Yu-Yun et al.**
Wyłomańska, A. *see* **Broszkiewicz-Suwaj, E. et al.**
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91Dxx Mathematical sociology (including anthropology)

91D10 Models of societies, social and urban evolution

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91D35 Manpower systems [see also 91B40, 90B70]

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91Exx Mathematical psychology

91E10 Cognitive psychology

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91E30 Psychophysics and psychophysiology; perception

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Bortz, D. M. *see* **Banks, H. T. et al., (2004k:92003)**
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DiStefano, Joseph J., III *see* **Charusanti, Pep et al., 2004k:92018**
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Edwards, Roderick *see* **Beuter, Anne et al.**
Eramian, Mark *see* **Daley, Mark et al., (2004j:68014)**
Erdős, Péter L. *see* **Dress, Andreas W. M., 2004h:05033**
Federici, Antonio *see* **Conte, Elio et al.**
Frankel, I. *see* **Manela, A., 2004h:76181**
Frigui, Hichem *see* **Rhouma, Mohamed Ben Hadj**
Frigyesi, Attila ★ Topics in multifractal measures, nonparametrics and biostatistics. **2004m:62004**
Fujiwara, Yoshihisa *see* **Suzuki, Yasuhiro et al., (2004k:68009)**
Fusco, Domenico *see* **Currò, Carmela et al.**
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Hiramatsu, Kazuhiko *see* **Okamura, Hiroshi et al.**

Hu, Xiao *see* **Charusanti, Pep et al., 2004k:92018**

Ishimaru, Akira *see* **Ramon, Ceon et al.**

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Mourad, Ayman *see* **Caillerie, Denis et al., 2004k:74073**

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Krieg, Jürgen-C. *see* **Huber, Martin T. et al.**
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Lánský, Petr *see* **Rodriguez, Roger et al.**
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Lees, G. J. *see* **Wright, James Joseph et al.**
van Leeuwen, Cees *see* **Raffone, Antonino**
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Liu, Zhiqiang[2] *see* **Gu, Huaguang et al.**, **2004j:92014**
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Longtin, André *see* **Laing, Carlo R.**
Lord, Gabriel J. *see* **Coombes, Stephen et al.**, **2004b:92013**
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Oliva, Ricardo A. *see* **Guckenheimer, John**, **2004d:92003**
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Owen, Markus R. *see* **Coombes, Stephen et al.**, **2004b:92013**
Özgören, Murat *see* **Başar, Erol et al.**
Panfilov, A. V. *see* **ten Tusscher, K. H. W. J.**
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Richmond, Barry *see* **Hertz, John et al.**, (**2004e:92001**)
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Ruppin, Eytan *see* **Keinan, Alon et al.**
de Ruyter van Steveninck, Rob *see* **Rieke, Fred et al.**, **2004b:92014**
Ryge, Jesper *see* **Alstrøm, Preben et al.**, **2004b:92012**
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Schwegler, Helmut *see* **Thiel, Andreas et al.**
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Vakulenko, S. A. *see* **Buren, V. M.**, (**2004e:00013**)
Vázquez, Angel Rodríguez *see* **Bálya, Dávid et al.**
van der Velde, Frank *see* **de Kamps, Marc**, (**2004e:92001**)
Vigário, Ricardo *see* **Müller, Klaus-Robert et al.**
Wang, Xiao-Jing *see* **Renart, Alfonso et al.**
Warland, David *see* **Rieke, Fred et al.**, **2004b:92014**
Warzecha, Anne-Kathrin *see* **Kretzberg, Jutta et al.**, (**2004e:92001**)
Webb, Barbara H. *see* **Reeve, Richard E.**
Wennberg, Richard *see* **Perez Velazquez, Jose L. et al.**
Wennekers, Thomas *see* **Ay, Nihat**, (**2004e:92001**)
Wenning, Gregor *see* **Hoch, Thomas et al.**, (**2004e:92001**)
Westover, M. Brandon *see* **Fischer, Brian J.**, (**2004e:92001**)
Whittington, Miles A. *see* **Traub, Roger D. et al.**, **2004c:92006**
Williams, Peter Martin *see* **Deng, Ying Chun et al.**
Wilson, Hugh R. ★ Spikes, decisions, and actions. **2004c:92007**
Winfree, Arthur T. *see* **Sutcliffe, Paul M.**, **2004h:92003**
Wörgötter, Florentin *see* **Porr, Bernd**, **2004k:92009**
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Xu, Jian Xue *see* **Xie, Yong et al.**
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Yang, Hong-Jun *see* **Xie, Yong et al.**
Yang, Keun-Hang *see* **Jafri, Saleet M.**
Yang, Minghao *see* **Gu, Huaguang et al.**, **2004j:92014**
Yoshinaga, Tetsuya *see* **Tsumoto, Kunichika et al.**, **2004a:92010**
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Ziehe, Andreas *see* **Müller, Klaus-Robert et al.**

Items with secondary classifications in 92C20

Adamopoulos, Miltiadis *see* **Margaris, Athanasios et al.**, **2004d:37144**
Afraimovich, Valentin S. *see* **Rabinovich, Mikhail I. et al.**, (**2004j:37003**)
Aihara, Kazuyuki *see* **Kitajima, Hiroyuki et al.**, **2004i:37169**
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Andreev, K. V. (*with* Krasichkov, L. V.) Using of phenomenological piecewise continuous maps for simulation of neurons behavior. (English summary) **2004k:37189**
Bilbault, Jean Marie *see* **Kazantsev, V. B. et al.**, **2004g:37119**
Binczak, S. *see* **Kazantsev, V. B. et al.**, **2004g:37119**
Böhning, Dankmar *see* **Schlattmann, Peter et al.**, (**2004f:62020**)
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Bullinaria, John A. From biological models to the evolution of robot control systems. (English summary)
Campbell, Sue Ann *see* **Ncube, Israel et al.**, **2004b:37189**
Cannas, Sergio A. *see* **Franco, Leonardo**
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(De Schutter, Erik) *see* **Computational neuroscience**, **2004e:92001**
Dickinson, Michael H. *see* **Reiser, Michael B.**
Dimitrov, Alexander G. *see* **Gedeon, Tomáš et al.**, **2004i:68045**
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Edwards, Roderick (*with* Gill, P.) On synchronization and cross-talk in parallel networks. (English summary) **2004c:34104**
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Elliott, Terry (*with* Shadbolt, Nigel R.) Developmental robotics: manifesto and application. (English summary)
Ermentrout, George Bard *see* **Laing, Carlo R. et al.**, **2004b:37188** *and* **Drover, Jonathan D.**, **2004h:37141**
Fang, Ji Qian *see* **Ni, Tao Yang et al.**
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Fujimoto, Koichi (*with* Kaneko, Kunihiko) Bifurcation cascade as chaotic itinerancy with multiple time scales. (English summary) **2004h:37043**
Gallinat, Jürgen *see* **Schlattmann, Peter et al.**, (**2004f:62020**)
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92C35 Physiological flow [see also 76Z05]

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92C37 Cell biology

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Hoek, Jan B. *see* **Bruggeman, Frank J. et al., 2004j:92043**
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92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [see also 80A30]

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92C50 Medical applications (general)

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Malhotra, Amit *see* **Tong, Shanbao et al.**
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McClintock, Peter V. E. (*with* Stefanovska, Aneta) Noise and determinism in cardiovascular dynamics. (English summary) **2004c:92013**
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Mohr, Matthias B. *see* **Sachse, Frank B. et al.**
Mombach, José C. M. *see* **dos Reis, Adriana N. et al., 2004k:92026**
Motta, Santo *see* **Bellomo, Nicola et al., (2004d:92007)**
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Nowak, Martin A. *see* **Komarova, N. L. et al.**
Oharu, Shinnosuke *see* **Matsuura, Yoshinori et al., 2004k:92024**
Osorio, Ivan *see* **Haas, Shane M. et al.**
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Panovska, Jasmina Mathematical models of corneal wound healing. (English summary) (*see* **2004b:00012**)
Pasik-Duncan, Bozenna *see* **Haas, Shane M. et al.**
Paszek, Piotr *see* **Wakulicz-Deja, Alicja**
Patel, Sephalie *see* **Kaazempur-Mofrad, M. R. et al.**
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Radhakrishna, R. K. A. *see* **Yeragani, Vikram K. et al.**
Ramakrishnan, K. R. *see* **Yeragani, Vikram K. et al.**
Rao, Manlong *see* **Zhu, Wei[2] et al.**
Ravà, Lucilla *see* **Rossi, Carla, (2004e:00011)**
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Vainstein, Vladimir *see* **Arakelyan, Levon et al., (2004d:92007)**
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Lachowicz, Mirosław *see* **Banasiak, Jacek et al.**, **2004b:47070**
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Maass, Peter *see* **Lukaschewitsch, Michael et al.**, **2004f:65079**
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92C55 Biomedical imaging and signal processing [see also 44A12, 65R10]

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Tannenbaum, Allen *see* **Yezzi, Anthony, Jr. et al., (2004a:92004)**
Thiriet, Marc *see* **Salmon, Stéphanie et al.**
Tijdeman, R. *see* **Hajdu, Lajos, 2004d:92008**
Tortorella, F. *see* **Foggia, P. et al., (2004j:62010)**
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Vento, M. *see* **Foggia, P. et al., (2004j:62010)**
Vese, Luminita A. *see* **Chan, Tony F. C.**
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Maître, Henri *see* **Bloch, Isabelle et al.**
Maury, Bertrand *see* **Thiriet, Marc et al.**
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Moulton, Vincent *see* **Dress, Andreas W. M. et al., (2004d:00019)**
Neher, D. A. *see* **Leisner, S. M.**
Nelson, David L. *see* **Renwick, Alexander et al., 2004i:92021**
Nelson, Philip C. *see* **Storm, Cornelis, 2004f:92016**
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Dietler, Giovanni *see* **Lehmann, Jean et al.**
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Gerber, Georg *see* **Bar-Joseph, Ziv et al.**, **2004m:62228**
Giavitto, Jean-Louis (*with* Michel, Olivier) The topological structures of membrane computing. (English summary) **2004i:68053**
Gifford, David K. *see* **Bar-Joseph, Ziv et al.**, **2004m:62228**
González-Castaño, Francisco J. *see* **Vales-Alonso, Javier et al.**, **2004d:90145**
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Guo, Jiong *see* **Gramm, Jens et al.**, (**2004j:68011**) *and* (**2004j:68002**)
Guo, WenZhong *see* **Chen, GuoLong**
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Hirsch, Ken S. *see* **Sidorov, Igor A. et al.**
Hössjer, Ola Asymptotic estimation theory of multipoint linkage analysis under perfect marker information. (English summary) **2004f:62193**
Hüffner, Falk *see* **Gramm, Jens et al.**, (**2004j:68002**)
Hughes, Barry D. *see* **Reed, William J.**
Hurn, Merrilee A. *see* **Sisson, S. A.**
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Jaakkola, Tommi S. *see* **Bar-Joseph, Ziv et al.**, **2004m:62228**
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Jonoska, Nataša Trends in computing with DNA. (English summary)
Kaneko, Kunihiko *see* **Furusawa, Chikara**
Kantz, Holger *see* **Ferretti Manffra, Elisangela et al.**
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Nie, Zan Kan *see* **Zhao, Xiao-yan**, **2004k:60201**
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92D15 Problems related to evolution

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Elena, Santiago F. *see* **Saldaña, Joan et al.**, **2004a:92021**
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Higashi, Masahiko *see* **Yamamura, Norio et al.**
Hofbauer, Josef *see* **Hauert, Christoph et al.**
Hopfensitz, Astrid *see* **Bowles, Samuel et al.**
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Lapointe, François-Joseph *see* **Levasseur, Claudine**, **2004i:92023**
Lehtilä, Kari *see* **Pineda-Krch, Mario**
Levasseur, Claudine (*with* Lapointe, François-Joseph) Increasing phylogenetic accuracy with global congruence. (English summary) **2004i:92023**
Liang, Shoudan *see* **Stassinopoulos, Dimitris et al.**, (**2004j:00027**)
Lin, Guo-Hui *see* **Chen, Zhi-Zhong et al.**, **2004f:92019**
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Maia, Leonardo P. (*with* Botelho, Daniela F.; Fontanari, José F.) Analytical solution of the evolution dynamics on a multiplicative-fitness landscape. (English summary) **2004j:92054**
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Manrubia, Susanna C. (*with* Zanette, Damián H.) At the boundary between biological and cultural evolution: the origin of surname distributions. (English summary) **2004j:92055**
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Michor, Franziska *see* **Iwasa, Yoh et al.**
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Misawa, Kazuharu *see* **Ono, Seiji et al.**
Mitchener, W. Garrett Bifurcation analysis of the fully symmetric language dynamical equation. (English summary) **2004b:92021**
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Nanjundiah, Vidyanand *see* **Behera, Narayan**
Narushima, Hiroshi *see* **Miyakawa, Kampei**, **2004j:92057**
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92D20 Protein sequences, DNA sequences

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Sullivan, Peggy Cut, paste and filter. (English summary) **2004i:68064**
Summers, Jesse *see* **Srivastava, Ranjan et al.**, **2004j:92026**
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92D25 Population dynamics (general)

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Escalante, Ananías *see* **González, Jorge Alberto et al., 2004d:92021**
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Feudel, Ulrike *see* **Gross, Thilo et al.**
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Filipe, J. A. N. (*with* Maule, M. M.) Effects of dispersal mechanisms on spatio-temporal development of epidemics. (English summary)
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Furuichi, Nozomu Dynamics between a predator and a prey switching two kinds of escape motions. (English summary) **2004k:92038**
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Ghoochan, Nariman *see* **Ellermeyer, Sean et al.**
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van Gils, Stephan A. *see* **Davydova, N. V. et al., 2004c:92022** *and* **Diekmann, Odo, 2004h:92015**
Giuggioli, L. (*with* Kenkre, V. M.) Analytic solutions of a nonlinear convective equation in population dynamics. (English summary) **2004g:92028**
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Guo, Man Cai *see* **Xie, Xiao Li et al.**
Gupta, Shakti *see* **Shoemaker, Jason et al.**
Haccou, Patsy *see* **Yokomizo, Hiroyuki et al.**
Hara, Tadayuki *see* **Nakaoka, Shinji et al.**
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Hofbauer, Josef *see* **Saito, Yasuhisa et al.** *and* **Kon, Ryusuke**
Holt, Robert D. *see* **Shurin, Jonathan B. et al.**
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Horiuchi, Shiro (*with* Yamamura, Norio; Abe, Takuya) Soldier production strategy in lower termites: from young instars or old instars? (English summary) **2004j:92072**
Hou, Yan *see* **Zhang, Qun Ying et al.**
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Hühn, Manfred (*with* Piepho, Hans-Peter) Inbreeding coefficients for stochastically varying small population sizes—bias of calculation based on effective numbers. (English summary)
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Hwang, Tzy-Wei Global analysis of the predator-prey system with Beddington-DeAngelis functional response. (English summary) **2004d:92023**
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Inouye, Kei *see* **Umeda, Tamiki**
Irisson, Jean-Olivier *see* **Dercole, Fabio et al., 2004e:92021**
Isoda, Yutaka *see* **Nishimura, Kinya**
Iwasa, Yoh *see* **Yokomizo, Hiroyuki et al.**
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Justo, D. A. R. *see* **Silva, Jacques A. L. et al.**
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Kamel Naji, Ra'id *see* **Gakkhar, Sunita, 2004e:92022**
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Karan, S. *see* **Bhattacharya, D. K., 2004f:92021**
Kelly, Dave *see* **Buonaccorsi, John P. et al.**
Kenkre, V. M. *see* **Giuggioli, L., 2004g:92028**
Kim, Kwang Ik (*with* Lin, Zhi Gui) Coexistence in the three species predator-prey model with diffusion. (English summary) **2004h:92017**
Kindlmann, Pavel *see* **Dostálková, Iva et al., 2004j:92069**
King, John Robert *see* **Ward, John Peter et al., 2004g:92032**
Kirkilionis, Markus *see* **Diekmann, Odo, 2004f:92022**
Kirzhner, V. M. *see* **Lyubich, Yurii I.**
Klochkova, I. N. *see* **Logofet, D. O., 2004h:92018**
Koenig, Walt *see* **Buonaccorsi, John P. et al.**
Koerber, Adrian J. *see* **Ward, John Peter et al., 2004g:92032**
Kojouharov, Hristo V. *see* **Jones, Don A. et al., 2004g:92030**
Kon, Ryusuke (*with* Takeuchi, Yasuhiro) Permanence of 2-host 1-parasitoid systems. (English summary) **2004b:92027**
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Koyak, Robert An investigation of generalized raking in the synthetic estimation of population size. (English summary)
Krishna, Sandeep *see* **Jain, Sanjay[3], 2004j:92075**
Křivan, Vlastimil (*with* Vrkoč, Ivo) Should "handled" prey be considered? Some consequences for functional response, predator-prey dynamics and optimal foraging theory. (English summary)
Kuang, Yang *see* **Gourley, Stephen A., 2004f:92024**
Kubiaczyk, Ireneusz (*with* Saker, Samir H.) Oscillation and global attractivity in a discrete survival red blood cells model. (English summary) **2004j:92076**
Kuperman, Marcelo *see* **Gonçalves, Sebastián et al.**
Lakshminarayanan, E. S. (*with* Pitchaimani, M.) Unique estimation of mortality rates in Gompertz survival model parameters. (English summary) **2004b:92028**
Leal-Ramírez, Cecilia *see* **Montiel-Arzate, Elia et al., 2004j:92080**
Lee, S.-H. (*with* Pak, H. K.; Wi, H. S.; Chon, T.-S.; Matsumoto, Takashi) Growth dynamics of domain pattern in a three-trophic population model. (English summary) **2004m:92023**
Lega, J. (*with* Passot, T.) Hydrodynamics of bacterial colonies: a model. (English summary) **2004c:92023**
Leibold, Mathew A. *see* **Shurin, Jonathan B. et al.**
Lenbury, Yongwimon *see* **Dumrongpokaphan, T. et al., 2004g:92026**
Lessard, Sabin (*with* Wakeley, John) The two-locus ancestral graph in a subdivided population: convergence as the number of demes grows in the island model. (English summary) **2004m:92024**
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Lewis, Mark A. *see* **Lutscher, Frithjof, 2004m:92027**
Li, Bai-Lian *see* **Petrovskii, Sergei, 2004j:92083**
Li, Bi Wen Periodic solution for three mixed species model with time delay. (English and Chinese summaries) **2004b:92029**
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Li, Bingtuan (*with* Smith, Hal L.) Periodic coexistence of four species competing for three essential resources. (English summary) **2004e:92025**
— *see also* **Smith, Hal L., 2004b:92031**
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Li, Wan Tong *see* **Huo, Hai Feng, 2004f:92025**

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Li, Zhi-xiang (*with* Liu, Yi-cheng) Periodic solution for predator-prey difference system with diffusion. (English and Chinese summaries) **2004m:92025**
Li, Zi-Zhen *see* **Xu, Cai-Lin**
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Lin, Yi-Zhong *see* **Cheng, Sui Sun et al., 2004m:92020**
Lin, Zhi Gui *see* **Kim, Kwang Ik, 2004h:92017** *and* **Zhang, Qun Ying et al.**
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Liu, Lai Fu *see* **Huang, Hai Yang, 2004a:92033**
Liu, Wei An *see* **Yang, Yin**[1]
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Liu, Yi-cheng *see* **Li, Zhi-xiang, 2004m:92025**
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López, Ma. I. *see* **Gamez, Manuel, 2004b:92026**
López-Gómez, Julián Coexistence and meta-coexistence for competing species. (English summary) **2004f:92027**
Lu, Qi Shao *see* **Yang, Zhuo Qin et al.**
Lu, Xin[1] *see* **Feng, Wei**[1] **et al., 2004f:92023**
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Luo, Yong *see* **Lu, Zhengyi, 2004h:92019**
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Lyubich, Yurii I. (*with* Kirzhner, V. M.) Mathematical frameworks for phenotypical selection and epistasis. (English summary)
Maiti, Alakes *see* **Samanta, G. P., 2004e:92028**
Maleico, E. R. *see* **Rafikov, M.**
Manchón, Inmaculada *see* **Bordehore, Cèsar et al., 2004c:92021**
Martínez, Salomé *see* **Hutson, V. et al., 2004j:92074**
Matsumoto, Takashi *see* **Lee, S.-H. et al., 2004m:92023**
Matsunaga, Hideaki *see* **Nakaoka, Shinji et al.**
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Medina, Rigoberto *see* **Cheng, Sui Sun et al., 2004m:92020**
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Mimura, Masayasu *see* **Hilhorst, Danielle et al., (2004j:35005)**
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Moghadas, S. M. (*with* Alexander, M. E.; Corbett, B. D.) A non-standard numerical scheme for a generalized Gause-type predator-prey model. (English summary) **2004m:92028**
Mogie, Michael *see* **Carrillo, Claudia et al., 2004j:92064**
Möhle, Martin (*with* Sagitov, Serik) Coalescent patterns in diploid exchangeable population models. (English summary) **2004j:92079**
Molofsky, Jane *see* **Ferdy, Jean-Baptiste, 2004j:92071**
Moniem, A. A. *see* **El-Owaidy, H. M., 2004g:92027** *and* **2004m:92022**
Montiel-Arzate, Elia (*with* Echavarría-Heras, Hector; Leal-Ramírez, Cecilia) A functionally diverse population growth model. (English summary) **2004j:92080**
Mróz, Iwona A model of population dynamics—further investigations. (English summary) **2004a:92035**
Mukhopadhyay, Banibrata *see* **Bhattacharyya, Rakhi et al.**
Nagelkerke, C. J. *see* **Etienne, Rampal S.**
Nakaoka, Shinji (*with* Hara, Tadayuki; Matsunaga, Hideaki) Local asymptotic stability for a Lotka-Volterra system with distributed delays. (Japanese)
Narang, Atul *see* **Shoemaker, Jason et al.** *and* **Reeves, Gregory T. et al.**
Nedorezov, L. V. (*with* Utyupin, Yu. V.) On a model of the predator-prey system with delay. (Russian. Russian summary) **2004k:92043**
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Nishimura, Kinya (*with* Isoda, Yutaka) Evolution of cannibalism: referring to costs of cannibalism. (English summary)
Norhayati (*with* Wake, Graeme) The solution and the stability of a nonlinear age-structured population model. (English summary) **2004i:92027**
Noussair, Ahmed *see* **Ainseba, Bedr'Eddine, 2004b:92023**
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Ouedraogo, Albert (*with* Traore, Oumar) Sur un problème de dynamique des populations. (English and French summaries) [A population dynamics problem] **2004j:92081**
— *see also* **Traore, Oumar, 2004m:92031**
Ovaskainen, Otso Long-term persistence of species and the SLOSS problem. (English summary) **2004j:92082**
Pak, H. K. *see* **Lee, S.-H. et al., 2004m:92023**
Pal, Samares *see* **Chattopadhyay, J. et al.**
Pan, Ji Bin (*with* Li, Bi Wen) Stability for a class of two-species ecosystems. (Chinese. English and Chinese summaries)
Pascual, Angela *see* **Bordehore, Cèsar et al., 2004c:92021**
Passot, T. *see* **Lega, J., 2004c:92023**
Pastor-Satorras, Romualdo (*with* Vespignani, Alessandro) Epidemics and immunization in scale-free networks. (English summary) (*see* **2004f:00010**)
Patton, Curtis Allan *see* **Milner, Fabio Augusto, 2004c:92024**
Pei, Li-jun *see* **Lu, Zhi Qi et al., 2004j:92078**
Pękalski, Andrzej Evolution of population in changing conditions. (English summary) **2004a:92036**
— *see also* **Droz, Michel**
Pethig, Rüdiger *see* **Eichner, Thomas, 2004j:92070**
Petrovskii, Sergei (*with* Li, Bai-Lian) An exactly solvable model of population dynamics with density-dependent migrations and the Allee effect. (English summary) **2004j:92083**
Pichugin, B. Yu. A stochastic model of an isolated population with seasonal breeding and self-limitation. (Russian. Russian summary) **2004j:92084**
Piepho, Hans-Peter *see* **Hühn, Manfred**
Pilyugin, Sergei S. *see* **Shoemaker, Jason et al.** *and* **Reeves, Gregory T. et al.**
Pinter, Gabriella *see* **Banks, H. T. et al., (2004k:92003)**
Pitchaimani, M. *see* **Lakshminarayanan, E. S., 2004b:92028**
Potter, Laura *see* **Banks, H. T. et al., (2004k:92003)**
Pound, Graeme E. (*with* Doncaster, C. Patrick; Cox, Simon J.) A Lotka-Volterra model of coexistence between a sexual population and multiple asexual clones. (English summary) **2004j:92085**
Preziosi, Luigi *see* **Kowalczyk, Remigiusz et al., 2004k:92042**
Provata, A. (*with* Tsekouras, G. A.) Spontaneous formation of dynamical patterns with fractal fronts in the cyclic lattice Lotka-Volterra model. (English summary) **2004f:92028**
Pujol, Maria J. *see* **Bordehore, Cèsar et al., 2004c:92021**
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Ranta, Esa (*with* Tesar, David; Kaitala, Veijo) Environmental variability and semelparity vs. iteroparity as life histories. (English summary) **2004j:92086**
Rauch, Erik M. *see* **de Aguiar, Marcus A. M. et al., 2004k:92036**
Reeves, Gregory T. (*with* Narang, Atul; Pilyugin, Sergei S.) Growth of mixed cultures on mixtures of substitutable substrates: the operating diagram for a structured model. (English summary)
— *see also* **Shoemaker, Jason et al.**
Reilly, James R. *see* **Henson, Shandelle M. et al., 2004g:92029**
Rinaldi, Sergio *see* **Dercole, Fabio et al., 2004e:92021**
Robertson, Suzanne L. *see* **Henson, Shandelle M. et al., 2004g:92029**
Romero, Sael *see* **Cavani, Mario, 2004j:92065**
Rozdilsky, Ian D. (*with* Stone, Lewi; Solow, Andrew) The effects of interaction compartments on stability for competitive systems. (English summary)
Rozier, Eric W. D. *see* **Henson, Shandelle M. et al., 2004g:92029**
Ruan, Hongbo *see* **He, Mingfeng et al.**
Sagitov, Serik *see* **Möhle, Martin, 2004j:92079**
Saito, Yasuhisa (*with* Takeuchi, Yasuhiro) Sharp conditions for global stability of Lotka-Volterra systems with delayed intraspecific competitions. (English summary) **2004c:92025**
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Sakaguchi, Hidetsugu Self-organization of hierarchical structures in non-locally coupled replicator models. (English summary)
Sakakibara, Hirotatsu *see* **Beretta, Edoardo et al., 2004b:92025**
Saker, Samir H. *see* **Kubiaczyk, Ireneusz, 2004j:92076**
Samanta, G. P. (*with* Maiti, Alakes) Stochastic Gomatam model of interacting species: non-equilibrium fluctuation and stability. (English summary) **2004e:92028**
Sánchez, David A. *see* **Brauer, Fred, 2004j:92062**
Sanchón, Manuel *see* **Calsina Ballesta, Ángel, 2004g:92025**
Sander, Leonard M. (*with* Warren, C. P.; Sokolov, I. M.) Epidemics, disorder, and percolation. (English summary) **2004i:92029**
Sasaki, Akira[2] *see* **Gilchrist, Michael A.**
Schreiber, Sebastian J. Coexistence for species sharing a predator. (English summary) **2004j:92030**
Schu, Matthew C. *see* **Henson, Shandelle M. et al., 2004g:92029**
Self, Steven G. *see* **Wick, David, 2004j:92089**
Seno, Hiromi Some time-discrete models derived from ODE for single-species population dynamics. Leslie's idea revisited. (English summary) **2004k:92045**
Serva, Maurizio Lack of self-averaging and family trees. (English summary) **2004m:92029**
Shaban, Aly A. Cooperation in patchy environment with cross-diffusion. (English summary) **2004k:92046**
Shen, Bo Qian *see* **Shen, Cong**
Shen, Cong (*with* Shen, Bo Qian) A necessary and sufficient condition of the existence and uniqueness of the limit cycle for a class of prey-predator systems with sparse effect. (Chinese. English and Chinese summaries)
Shen, Fei *see* **Wang, Hong Li et al.**
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Schwegler, Helmut *see* **Thiel, Andreas et al.**
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Selenge, Ts. *see* **Kim, Mi-Young[2], 2004g:65130**
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Shen, Bo Qian *see* **Si, Cheng Bin**
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Shi, Jin Lin *see* **Chen, Feng De et al., 2004i:34179**
Shi, Junping A radially symmetric anti-maximum principle and applications to fishery management models. (English summary) **2004k:34031**
Shindyapin, A. I. *see* **Miguel, José J. et al., 2004c:34256**
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Smith, Hal L. *see* **De Leenheer, Patrick, 2004a:93034** *and* **Jones, Don A. et al., 2004b:35185**
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Sun, Dexian *see* **Chen, Feng De et al., 2004i:34179**
Sun, Hong-Rui *see* **Li, Wan Tong**
Sun, Jian Ping[2] *see* **Huo, Hai Feng et al.**
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Takeuchi, Yasuhiro *see* **Beretta, Edoardo et al., 2004a:34151**; **Kon, Ryusuke, 2004b:37187**; **2004c:37215** *and* **Feng, Bo[2], 2004c:34255**
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Tornatore, Elisabetta Stochastic equation of population dynamics with diffusion on a domain. (English summary) **2004c:60189**
Trofimchuk, Sergei *see* **Liz, Eduardo et al., 2004m:34175**
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Twizell, E. H. *see* **Piyawong, W. et al., 2004h:65068**
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Villella-Bressan, Rosanna *see* **Dyson, Janet et al., 2004e:35223** *and* **2004k:92020**
Viskanta, Raymond *see* **Pilon, Laurent, 2004g:65118**
Vrabie, Ioan I. *see* **Thieme, Horst R., 2004k:37174**
Wakano, Joe Yuichiro *see* **Yamamura, Norio et al.**
Walter, Éric *see* **Kieffer, Michel, 2004i:93178**
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Waxman, D. *see* **Tang, Qi**, **2004b:34214**
Webb, Glenn F. *see* **Dyson, Janet et al.**, **2004e:35223** *and* **2004k:92020**
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Wu, Hong[2] *see* **Wang, Yuan Shi et al.**, **2004d:34106**
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Xu, Zong Ben *see* **Peng, Ji Gen**, **2004h:47062**
Xue, Hong Xia *see* **Chen, Guo Wang**
Xue, Qing Zhong *see* **Tan, Jun**
Yagi, Atsushi *see* **Nakaguchi, Etsushi**, **2004c:65114**
Yakubu, Abdul-Aziz Discrete-time metapopulation dynamics and unidirectional dispersal. (English summary) **2004e:39003**
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Yi, Qizhi *see* **Zhao, Xiao Hua**, **2004i:34118**
Yi, Yingfei *see* **Liu, Weishi et al.**, **2004a:34073** *and* **Feng, Zhi Lan et al.**, **2004c:34141**
Yotsutani, Shoji *see* **Lou, Yuan et al.**, **2004k:35213**
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Zeeman, M. L. *see* **Zeeman, E. C.**, **2004a:37128** *and* **2004d:37147**
Zeng, Xian Wu *see* **Li, Bi Wen**, **2004a:34154** *and* **2004h:34135**
Zhabotinskiĭ, A. M. *see* **Rotstein, Horacio G. et al.**, **2004m:34086**
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— Persistence in almost periodic predator-prey reaction-diffusion systems. (English summary) **2004c:35232**
— Global attractivity in monotone and subhomogeneous almost periodic systems. (English summary) **2004i:37157**
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Zhou, Zhan *see* **Chen, Yu Ming[1]**, **2004k:39032**
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Zhu, Si Ming *see* **Wang, Yuan Shi et al.**, **2004d:34106**
Zou, Xing Fu *see* **Fan, Meng[1] et al.**, **2004e:34089** *and* **Tang, Xian Hua**, **2004e:34116**

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Bioterrorism ★ Bioterrorism. **2004k:92003**

92D30 Epidemiology

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2004j:92093
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Andreasen, Viggo Dynamics of annual influenza A epidemics with immuno-selection. (English summary) **2004d:92025**
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Arino, Julien (*with* van den Driessche, Pauline) The basic reproduction number in a multi-city compartmental epidemic model. (English summary) **2004i:92033**
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de Barros, Laécio C. (*with* Ferreira Leite, M. B.; Bassanezi, Rodney Carlos) The SI epidemiological models with a fuzzy transmission parameter. (English summary)
Barrozo, S. (*with* Yang, Hyun Mo) Immunological and environmental factors in a schistosome transmission model. (Portuguese. Portuguese summary)
Bassanezi, Rodney Carlos *see* **Raimundo, Silvia Martorano et al.** *and* **de Barros, Laécio C. et al.**
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Blanchard, Philippe (*with* Chang, Ching Hua; Krüger, Tyll) Epidemic thresholds on scale-free graphs: the interplay between exponent and preferential choice. (English summary) **2004k:92050**
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Brauer, Fred (*with* van den Driessche, Pauline) Some directions for mathematical epidemiology. (English summary) **2004b:92034**
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Brown, David H. (*with* Hastings, Alan) Resistance may be futile: dispersal scales and selection for disease resistance in competing plants. (English summary)
Carstea, A. S. *see* **Willox, Ralph et al., 2004h:92023**
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Castillo-Garsow, M. A. *see* **Chowell, Gerardo et al.**
Castro, R. M. *see* **Amaku, M. et al.**
Chang, Ching Hua *see* **Blanchard, Philippe et al., 2004k:92050**
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Chen, Lan Sun *see* **Xiao, Yan-ni, 2004c:92031; 2004j:92099** *and* **Lu, Zhong-hua et al., 2004f:92030**
Chi, Xue-bin *see* **Lu, Zhong-hua et al., 2004f:92030**
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Cooke, K. L. *see* **Arino, Julien et al., 2004i:92034**
Corbett, B. D. (*with* Moghadas, S. M.; Gumel, A. B.) Subthreshold domain of bistable equilibria for a model of HIV epidemiology. (English summary) **2004j:92094**
Coutinho, F. A. B. *see* **Amaku, M. et al.**
Craft, David L. *see* **Kaplan, Edward H. et al., 2004g:92038**
Crispino-O'Connell, Gloria *see* **Martcheva, Maia, 2004f:92031**
Cullen, R. M. (*with* Korobeinikov, Andrei; Walker, W. J.) Seasonality and critical community size for infectious diseases. (English summary) **2004b:92036**
Dammer, Stephan M. (*with* Hinrichsen, Haye) Epidemic spreading with immunization and mutations. (English summary) **2004g:92035**
Delimar, Marko *see* **Jazbec, Anamarija et al.**
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Deng, Guo Hong *see* **Wang, Kai Fa et al.**
Derrick, W. R. (*with* van den Driessche, Pauline) Homoclinic orbits in a disease transmission model with nonlinear incidence and nonconstant population. (English summary) **2004c:92029**
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Dushoff, Jonathan *see* **Levin, Simon A. et al.**
Earn, David J. D. *see* **Bauch, Chris T. et al., 2004b:92033**
Ehl, Stephan *see* **Bocharov, Gennadii A. et al.**
El-Doma, M. Stability and disease persistence in an age-structured SIS epidemic model with vertical transmission and proportionate mixing assumption. (English summary) **2004i:92035**
Emelyanova, Natalya A. *see* **Yul'met'ev, R. M. et al.**
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Farrington, C. P. On vaccine efficacy and reproduction numbers. (English summary) **2004g:92036**
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Feng, Zhi Lan (*with* Iannelli, Mimmo; Milner, Fabio Augusto) A two-strain tuberculosis model with age of infection. (English summary) **2004b:92038**
Fenimore, P. W. *see* **Chowell, Gerardo et al.**
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Filipe, J. A. N. (*with* Gilligan, C. A.) Solution of epidemic models with quenched transients. (English summary) **2004b:92039**
Fitzgibbon, W. E. (*with* Langlais, Michel) A diffusive S.I.S. model describing the propagation of F.I.V. (English summary) **2004e:92029**
Forsberg, Laura *see* **Bonetti, Marco et al., (2004k:92003**)
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Gafarov, Fail M. *see* **Yul'met'ev, R. M. et al.**
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Galvani, Alison P. *see* **Bauch, Chris T. et al.**
Gilligan, C. A. *see* **Filipe, J. A. N., 2004b:92039**
Glass, Kathryn (*with* Grenfell, B. T.) Antibody dynamics in childhood diseases: waning and boosting of immunity and the impact of vaccination. (English summary)
Gomez-Acevedo, Horacio (*with* Li, Michael Y.) Global dynamics of a mathematical model for HTLV-I infection of T cells. (English summary) **2004g:92037**
Gonçalves, Sebastián (*with* Kuperman, Marcelo) The social behavior and the evolution of sexually transmitted diseases. (English summary) **2004h:92021**
Graat, E. A. M. *see* **Klinkenberg, D. et al., 2004j:92095**
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Greenhalgh, David *see* **Lewis, Fraser**
Grenfell, B. T. *see* **Glass, Kathryn**
Gumel, A. B. *see* **Moghadas, S. M., 2004i:92038; 2004i:92039; 2004k:92054** *and* **Corbett, B. D. et al., 2004j:92094**
Gupur, Geni *see* **Li, Xue-Zhi et al., 2004j:92097** *and* **2004m:92035**
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Han, Li Tao (*with* Ma, Zhi En; Shi, Tan) An SIRS epidemic model of two competitive species. (English summary) **2004a:92038**
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Hänggi, Peter *see* **Yul'met'ev, R. M. et al.**
Haque, M. (*with* Chattopadhyay, J.) Influences of non-linear incidence in an eco-epidemiological model of the Salton Sea. (English summary) **2004k:92051**
Hastings, Alan *see* **Brown, David H.**
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Heesterbeek, Hans *see* **de Koeijer, Aline et al., 2004k:92053**
Herzog, Gerd (*with* Redheffer, Ray) Nonautonomous SEIRS and Thron models for epidemiology and cell biology. (English summary) **2004i:92036**
Hinrichsen, Haye *see* **Dammer, Stephan M., 2004g:92035** *and* **Jiménez-Dalmaroni, Andrea**
Holte, S. E. *see* **Banks, H. T. et al., 2004b:92032**
Hsu Schmitz, Shu-Fang *see* **Del Valle, Sara et al.**
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Iannelli, Mimmo (*with* Martcheva, Maia) Homogeneous dynamical systems and the age-structured SIR model with proportionate mixing incidence. **2004k:92052**
— *see also* **Feng, Zhi Lan et al., 2004b:92038**
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Iwasa, Yoh *see* **Shudo, Emi**

Jansen, Vincent A. A. *see* **Stollenwerk, Nico**, **2004i:92040**
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Jiménez-Dalmaroni, Andrea (*with* Hinrichsen, Haye) Epidemic processes with immunization. (English summary)
de Jong, M. C. M. *see* **Klinkenberg, D. et al.**, **2004j:92095** *and* **de Koeijer, Aline et al.**, **2004k:92053**
Kaplan, Edward H. (*with* Craft, David L.; Wein, Lawrence M.) Analyzing bioterror response logistics: the case of smallpox. (English summary) **2004g:92038**
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— *see also* **Cullen, R. M. et al.**, **2004b:92036**
Kot, Mark *see* **Medlock, Jan**, **2004g:92040a** *and* **2004g:92040b**
Kribs-Zaleta, Christopher *see* **Del Valle, Sara et al.**
Krishnan, Edamana V. *see* **Khan, Q. J. A.**, **2004b:92040**
Krüger, Tyll *see* **Blanchard, Philippe et al.**, **2004k:92050**
Kuperman, Marcelo *see* **Gonçalves, Sebastián**, **2004h:92021**
LaForce, Tara *see* **Hyman, James M.**, (**2004k:92003**)
Langlais, Michel *see* **Fitzgibbon, W. E.**, **2004e:92029**; **Allen, Linda J. S. et al.**, **2004j:92093** *and* **Fromont, Emmanuelle et al.**
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Li, Jia[2] (*with* Ma, Zhi En; Blythe, Steve P.; Castillo-Chavez, Carlos) Coexistence of pathogens in sexually-transmitted disease models. (English summary) **2004j:92096**
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Li, Michael Y. *see* **Gomez-Acevedo, Horacio**, **2004g:92037**
Li, Xue-Zhi (*with* Gupur, Geni; Zhu, Guang Tian) Existence and uniqueness of endemic states for the age-structured MSEIR epidemic model. (English summary) **2004j:92097**
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Liu, Hanwu *see* **Zhou, Yicang**, **2004g:92042**
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Mulone, G. *see* **Wang, Wen Di**, **2004f:92033**
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Ng, Tuen-Wai *see* **Ching, Wai-Ki et al.**
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Plotkin, Joshua B. *see* **Levin, Simon A. et al.**
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Shao, Yiming *see* **Wang, Feng et al.**, **2004i:92042**
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Velasco-Hernández, Jorge X. *see* **Arino, Julien et al.**, **2004i:92034**
Vel'ov, Vladimir M. *see* **Feichtinger, Gustav et al.**
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Vrzić, Vanja Slavić *see* **Jazbec, Anamarija et al.**
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Ortiz-Nieves, Angela *see* **González, Beverly et al.**
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Ruan, Shigui *see* **Culshaw, Rebecca V. et al., 2004i:92015** *and* **Wang, Wen Di, 2004k:34084**
Saad, Mazen *see* **Bendahmane, Mostafa et al., 2004b:35176** *and* **2004c:35204**
Sahai, B. M. *see* **Gumel, A. B. et al., 2004d:92010**
Sayama, Hiroki *see* **Rauch, Erik M. et al.**
Shi, Bao *see* **Zhang, De Cun, 2004d:39007**
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92D40 Ecology

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Cabezas, Heriberto *see* **Fath, Brian D. et al.**

Calbo Sanjuán, G. *see* **Cortés López, Juan Carlos**

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Carr, Jack *see* **Adams, Ben et al.**

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Huang, Xi Yue *see* **Chai, Yi et al.**

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Mandre, Shreyas *see* **Ghosal, Sandip, 2004d:92029**
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Myerscough, Mary R. *see* **Cox, Melissa D.**
Nakajima, Hisao *see* **Yoshiyama, Kohei, 2004k:92055**
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Panzieri, Margherita (*with* Porcelli, Marcello; Tiezzi, Elisa B. P.) Use of thermodynamic and non-linear models to study energy cycles in ecology. (English summary) **2004c:92034**
Parrott, L. *see* **Arii, K.**
Pascual, Mercedes *see* **Roy, Manojit et al.**
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Ritz, Karl *see* **Boswell, Graeme P. et al., 2004j:92101**
Rochet, Marie-Joëlle *see* **Benoît, Eric**
Rodrigues, L. A. D. *see* **Mistro, D. C. et al.**
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Sun, Ji Tao *see* **Chen, Di Lan**
Takeuchi, Yasuhiro *see* **Yamaguchi, Masahiro**
Tapaswi, P. K. *see* **Mukhopadhyay, Amitava et al., 2004a:92045**
Tiezzi, Elisa B. P. *see* **Panzieri, Margherita et al., 2004c:92034**
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Carr, Jack *see* **Adams, Ben**, **2004e:35115**
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Crooke, P. S. *see* **Dumrongpokaphan, T. et al.**, **2004g:92026**
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Dumrongpokaphan, T. (*with* Lenbury, Yongwimon; Crooke, P. S.) The analysis of higher-order cascade systems with separation conditions pivoting on the slow components: application to a model of migration for survival of the species. (English summary) **2004g:92026**
Ebenhöh, Wolfgang *see* **Gross, Thilo et al.**
Elena, Santiago F. *see* **Saldaña, Joan et al.**, **2004a:92021**
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Feudel, Ulrike *see* **Gross, Thilo et al.**
Franks, Nigel R. *see* **Couzin, Iain D. et al.**, **2004i:92046**
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Galleni, Lodovico *see* **Santini, Francesco et al.**, (**2004j:00027**)
Gasca-Leyva, Eucario *see* **Hernández, Juan M.**, (**2004j:65007**)
Gipouloux, Olivier *see* **Bourgeat, Alain et al.**, **2004k:76112**
Godelle, Bernard *see* **Ferdy, Jean-Baptiste et al.**
Goldberg, Mark S. *see* **Cakmak, Sabit et al.**, (**2004k:62018**)
Gourbiere, François *see* **Gourbiere, Sébastein**, **2004k:92039**
Gourbiere, Sébastein (*with* Gourbiere, François) Competition between unit-restricted fungi: a metapopulation model. (English summary) **2004k:92039**
Gross, Thilo (*with* Ebenhöh, Wolfgang; Feudel, Ulrike) Enrichment and foodchain stability: the impact of different forms of predator-prey interaction. (English summary)
Gumel, A. B. *see* **Moghadas, S. M.**, **2004c:37217**
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Hussain, J. *see* **Dubey, Balram**
James, Richard *see* **Couzin, Iain D. et al.**, **2004i:92046**
Jerrett, Michael *see* **Cakmak, Sabit et al.**, (**2004k:62018**)
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Kmeĭ, Tibor Diffusive mathematical model of nitrogen transformation cycle in aquatic environment. (English summary) (*see* **2004c:62006**)
Kojouharov, Hristo V. *see* **Chen-Charpentier, Benito M.**, **2004k:65131**
Krause, Jens *see* **Couzin, Iain D. et al.**, **2004i:92046**
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92D50 Animal behavior

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92D99 None of the above, but in this section

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Marshall, Craig J. *see* **Denton, Michael J. et al.**
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Qi, Phoebe X. *see* **Nölting, Bengt et al.**
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Schuurman, Petra *see* **Pendavingh, Rudi et al., 2004c:92039**
Shamir, Ariel *see* **Bajaj, Chanderjit L. et al., 2004d:92031**
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Stadler, Peter F. *see* **Wolfinger, Michael T. et al.**
Stauffer, Julian *see* **Karimi, Sasan et al.**
Stoye, Jens *see* **Cieliebak, Mark et al., 2004m:92039**
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Martyna, Glenn J. *see* **Tuckerman, Mark E. et al., 2004f:81260**
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Sauter, Thomas *see* **Kremling, Andreas et al., (2004g:00018)**
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Martina Franca ★ Mathematical methods for protein structure analysis and design. **2004j:92002**
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92E20 Classical flows, reactions, etc. [see also 80A30, 80A32]

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Gorecki, Jerzy *see* **Wakou, Junichi et al., 2004h:92031**
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Ptoytcheva, Valentina *see* **Kolev, Dimitar A., 2004a:92049**
Rademacher, J. *see* **Fiedler, Bernold et al., 2004f:92037**
Rodriguez, Yoel *see* **Vlad, Marcel O. et al., 2004a:92050**
Røgen, Peter *see* **Bywater, R. P. et al.**
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Schuppert, A. *see* **Fiedler, Bernold et al., 2004f:92037**
Sidhu, H. S. *see* **Nelson, M. I., 2004k:92056**
Simon, Laurent *see* **Loney, N. W. et al.**
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Billingham, John *see* **Bailey, P. B. et al., 2004f:34038**
de Bortoli, A. L. *see* **Zavaleta C, A. U. et al., 2004k:76127**
Bothe, Dieter Instantaneous limits of reversible chemical reactions in presence of macroscopic convection. (English summary) **2004f:34072**
ten Brinke, G. *see* **Kuchanov, S. I. et al., 2004b:34126**
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Farrow, Christopher *see* **Heidel, Jack et al.**, 2004d:37016
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Giovangigli, Vincent *see* **Ern, Alexandre**
Gomatam, Jagannathan *see* **McDermott, Sean et al.**, 2004e:35123
Graczyk, Małgorzata *see* **Ceranka, Bronisław**, 2004e:62132
Gumel, A. B. *see* **Chen, Zhen et al.**, 2004c:65087
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Hansen, Jesper Schmidt (*with* Toxvaerd, Søren; Præstgaard, Eigil) Domain synchronization of a cyclic Lotka-Volterra reaction diffusion mechanism. (English summary) **2004b:92017**
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Hutter, Jürg *see* **Röthlisberger, Ursula et al.**, (2004c:82002)
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King, Andrew C. *see* **Bailey, P. B. et al.**, 2004f:34038
King, John Robert Homogeneous and heterogeneous models for silicon oxidation. (English summary) **2004k:80013**
Klein, Michael L. *see* **Nielsen, Steve O.**, (2004c:82002)
Kok, C. *see* **Kuchanov, S. I. et al.**, 2004b:34126
Kokkonen, P. *see* **Tervo, J. et al.**, 2004j:93066
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Leach, J. A. *see* **McCabe, P. M. et al.**, 2004c:35222
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Li, Wei^3 *see* **Tian, Bo et al.**, 2004e:35126
Liao, Jason J. Z. A functional linear model for comparing two pharmacokinetics profiles. (English summary) **2004f:62194**
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Morozov, V. G. *see* **Davydov, Vasily A. et al.**, 2004c:35209
Mulholland, Anthony J. *see* **McDermott, Sean et al.**, 2004e:35123
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Parent, T. *see* **Madhukar, A. et al.**, 2004d:34101
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Rogers, Jim A. *see* **Heidel, Jack et al.**, 2004d:37016
Rosen, I. G. *see* **Madhukar, A. et al.**, 2004d:34101
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Shibata, Masaru *see* **Watanabe, Masaji et al.**, 2004j:65092
Shimada, Jun *see* **Kussell, Edo et al.**, 2004g:92013
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Sprik, Michiel *see* **Röthlisberger, Ursula et al.**, (2004c:82002)
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Timofte, Claudia *see* **Conca, Carlos et al.**, 2004m:76153
Tonnelier, Arnaud McKean caricature of the FitzHugh-Nagumo model: traveling pulses in a discrete diffusive medium. (English summary) **2004c:35228**
Toxvaerd, Søren *see* **Hansen, Jesper Schmidt et al.**, 2004b:92017
Tuckerman, Mark E. *see* **Martyna, Glenn J.**, (2004c:82002)
Vogelius, Michael S. *see* **Kavian, Otared**, 2004e:35088
Wake, Graeme *see* **Pleasants, A. B. et al.**
Wang, Chunming *see* **Madhukar, A. et al.**, 2004d:34101
Ward, E. Sally *see* **Hunt, L. R. et al.**, 2004k:93061
Warnatz, Jürgen Analysis of chemical reaction systems—what are mathematics able to do, how far has chemistry to help? (English and German summaries)
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Watmough, James *see* **Campbell, J. D. et al.**, 2004b:80012
Winkin, Joseph J. *see* **Laabissi, Mohamed et al.**
Wu, Hongyou *see* **Bailey, P. B. et al.**, 2004f:34038
Yokoyama, Shigeo *see* **Watanabe, Masaji et al.**, 2004j:65092
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92F05 Other natural sciences

93–XX Systems theory; control {For optimal control, see 49–XX.}

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Moore, John Barratt ★ Dedicated to the 60th birthday of John B. Moore. Part I.
Utkin, Vadim I. ★ Dedicated to Vadim Utkin on the occasion of his 65th birthday.
Interpolation theory, systems theory and related topics ★ Interpolation theory, systems theory and related topics. **2004f:00020**
Kiev ★ Dynamical system modelling and stability investigation. **2004g:00012**
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Lectures:
Toeplitz ★ Interpolation theory, systems theory and related topics. **2004f:00020**
Mathematical systems theory in biology, communications, computation, and finance ★ Mathematical systems theory in biology, communications, computation, and finance. **2004j:00018**
Memorial Issue:
Lions, Jacques-Louis ★ Special issue in memory of Jacques-Louis Lions.
Modeling, decomposition and optimization of complex dynamic processes ★ Моделирование, декомпозиция и оптимизация сложных динамических процессов. (Russian) [Modeling, decomposition and optimization of complex dynamic processes] **2004b:90007**
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Montréal, QC ★ Quantum control: mathematical and numerical challenges. **2004j:00023**
Notre Dame, IN ★ Mathematical systems theory in biology, communications, computation, and finance. **2004j:00018**
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Tel Aviv ★ Interpolation theory, systems theory and related topics. **2004f:00020**
Workshop:
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93Axx General

93A05 Axiomatic system theory

Liu, Guoyang Normal sum decomposition of general systems. (English summary)
Pappas, George J. (*with* Simić, Slobodan N.) Consistent abstractions of affine control systems. (English summary) **2004g:93011**
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93A10 General systems

Terlikowski, Tomasz On the notion of elementary description. (English summary)
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93A13 Hierarchical systems

Boggs, Paul T. *see* **Kearsley, Anthony J. et al., 2004m:93008**
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93A14 Decentralized systems

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Williams, Frederic W. *see* **Zhong, Wan Xie et al.**
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93A15 Large scale systems

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93A30 Mathematical modeling (models of systems, model-matching, etc.)

Ahmed, N. U. (*with* Yan, Hong; Orozco-Barbosa, Luis) Performance analysis of the token bucket control mechanism subject to stochastic traffic. (English summary)
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93A99 None of the above, but in this section

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93Bxx Controllability, observability, and system structure

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Peng, Shige *see* **Liu, Yazeng, 2004d:93129**
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93B05 Controllability

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Barbu, Viorel On local controllability of Navier-Stokes equations. (English summary) **2004j:93004**
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Barreto, Rioco K. *see* **Quiroga de Caldas, Cruz Sonia et al., 2004f:93015**
Başar, Tamer *see* **Melody, James et al., 2004b:93018**
Beceanu, Marius Local exact controllability of the diffusion equation in one dimension. **2004g:93020**
Belinskiĭ, B. P. *see* **Avdonin, Sergei A., 2004i:93011**
Belishev, M. I. How to see waves under the Earth surface (the BC-method for geophysicists). (English summary) **2004j:93005**
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— (*with* Gatsori, E. P.; Ntouyas, Sotiris K.) Controllability results for semilinear evolution inclusions with nonlocal conditions. (English summary) **2004j:93006**
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Bloch, Anthony M. *see* **Shen, Jinglai et al., 2004m:93018**
Braga Barros, Carlos José (*with* Reis, Ronan A.) On the number of control sets on compact homogeneous spaces. (English summary) **2004i:93012**
Brogliato, Bernard (*with* Mabrouk, Mongi; Zavala-Río, Arturo) A controllability criterion for linear juggling mechanical systems. (English summary) **2004b:93013**
Bru, Rafael (*with* Romero-Vivo, Sergio; Sánchez, Elena) Essential reachability of positive periodic discrete-time systems. (English summary) (*see* **2004h:93004**)
Bullo, Francesco *see* **Melody, James et al., 2004b:93018**
Cantó, Begoña (*with* Coll, Carmen; Sánchez, Elena) A characterization of reachable positive periodic descriptor systems. (English summary) **2004i:93013**
Cao, Guang Yi *see* **Zeng, Qing Shan et al.**

Carriegos, Miguel V. (*with* García-Planas, Ma. Isabel) Controllability of standardizable generalized linear systems. (English summary) **2004b:93014**
Chalishajar, D. N. Controllability of singular system using α-times integrated semigroups. (English summary) **2004h:93012**
Chen, Pengnian (*with* Qin, Huashu) Controllability of linear systems in Banach spaces. (English summary) **2004h:93013**
Chen, Tongwen *see* **Zhang, Guo Feng[3] et al., 2004c:93020**
Chenais, Denise (*with* Zuazua, Enrique) Controllability of an elliptic equation and its finite difference approximation by the shape of the domain. (English summary) **2004g:93021**
Chernous'ko, F. L. (*with* Ovseevich, A. I.) Properties of the optimal ellipsoids approximating the reachable sets of uncertain systems. (English summary) **2004k:93010**
Choi, Jae Rong *see* **Park, Jong Seo et al.**
Choi, Q-Heung *see* **Sakthivel, R., 2004m:93017**
Chu, Jian *see* **Sheng, Yun Long[2] et al.**
Coll, Carmen *see* **Cantó, Begoña et al., 2004i:93013**
Colonius, Fritz (*with* Fabbri, Roberta) Controllability for systems with slowly varying parameters. (English summary) **2004c:93009**
— (*with* Spadini, Marco) Uniqueness of local control sets. (English summary) **2004f:93010**
Conca, Carlos (*with* Osses, Axel; Saint Jean Paulin, Jeannine) Approximate controllability and homogenization of a semilinear elliptic problem. (English summary) **2004g:93022**
Coron, Jean-Michel Local controllability of a 1-D tank containing a fluid modeled by the shallow water equations. (English summary) **2004a:93009**
Cortés, Jorge (*with* Martínez, Sonia) Configuration controllability of mechanical systems underactuated by one control. (English summary) **2004c:93010**
Czornik, Adam (*with* Świerniak, Andrzej) On controllability of discrete time jump linear system. (English summary) (*see* **2004h:93004**)
D'Alessandro, Domenico Controllability of one spin and two interacting spins. (English summary) **2004e:93010**
— *see also* **Albertini, Francesca, 2004g:93018**
Dauer, J. P. *see* **Balachandran, Krishnan et al., 2004b:93011**; **2004c:93006** *and* **Balasubramaniam, P., 2004k:93009**
Davison, Edward J. *see* **Hu, Guang-Di, 2004j:93009**
Díaz Díaz, Jesús Ildefonso On the von Neumann problem and the approximate controllability of Stackelberg-Nash strategies for some environmental problems. (English and Spanish summaries) **2004e:93011**
— (*with* Lions, Jacques-Louis) On the approximate controllability of Stackelberg-Nash strategies.
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— (*with* Fernández-Cara, Enrique) On the null controllability of a one-dimensional fluid-solid interaction model. (English and French summaries) **2004j:93007**
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Fabbri, Roberta (*with* Johnson, Russell A.; Kloeden, Peter E.) Digitization of nonautonomous control systems. (English summary) **2004i:93014**
— *see also* **Colonius, Fritz, 2004c:93009**
Fardigola, L. V. *see* **Sklyar, Grigory M., 2004a:93014** *and* **2004b:93019**
Fedorov, V. E. (*with* Ruzakova, O. A.) One-dimensional controllability of Sobolev-type linear equations in Hilbert spaces. (Russian. Russian summary) **2004m:93013**
Feng, Dong Qing *see* **Zeng, Qing Shan et al.**
Fernández-Cara, Enrique (*with* Zuazua, Enrique) On the null controllability of the one-dimensional heat equation with BV coefficients. (English summary) **2004h:93014**
— *see also* **Dubova, Anna et al., 2004j:93007** *and* **2004k:93011**
Fornasini, Ettore (*with* Valcher, Maria Elena) On the positive reachability of 2D positive systems. (English summary) **2004h:93015**
Fu, Xianlong Controllability of neutral functional differential systems in abstract space. (English summary) **2004a:93010**
Gaĭshun, I. V. *see* **Dymkov, M. P. et al., 2004e:93012**
Gałkowski, Krzysztof *see* **Dymkov, M. P. et al., 2004e:93012**
Gamboa, Pedro *see* **Quiroga de Caldas, Cruz Sonia et al., 2004f:93015**
García-Planas, Ma. Isabel Controllability of l-order linear systems. (English summary) **2004d:93013**
— *see also* **Carriegos, Miguel V., 2004b:93014**
Gatsori, E. P. *see* **Benchohra, Mouffak et al., 2004f:93009** *and* **2004j:93006**
George, Raju K. *see* **Arapostathis, Aristotle et al., 2004g:93019**
Ghosh, Mrinal K. *see* **Arapostathis, Aristotle et al., 2004g:93019**
Glizer, Valery Y. Euclidean space controllability of singularly perturbed linear systems with state delay. (English summary) **2004f:93011**
Glowinski, Roland (*with* He, Jiwen; Lions, Jacques-Louis) On the controllability of wave models with variable coefficients: a numerical investigation. (English summary) **2004g:93023**
González-Burgos, M. *see* **Dubova, Anna et al., 2004k:93011**
Goodwine, Bill *see* **McMickell, M. Brett, 2004k:93014**
Górniewicz, Lech *see* **Benchohra, Mouffak et al., 2004a:93008** *and* **2004f:93009**
Grammel, G. Controllability of product systems. (English summary) **2004e:93013**
Guan, Zhi-Hong (*with* Qian, Tong-Hui; Yu, Xinghuo) On controllability and observability for a class of impulsive systems. (English summary) **2004g:93024**
Gugat, Martin Boundary controllability between sub- and supercritical flow. (English summary) **2004g:93025**
Guo, Bao Zhu (*with* Luo, Yue Hu) Controllability and stability of a second-order hyperbolic system with collocated sensor/actuator. (English summary) **2004i:93015**
Han, Hyo-Keun (*with* Son, Kuk Hyeon) Null controllability for intergrodifferential equations in Hilbert spaces. (English summary)
Havârneanu, Teodor *see* **Barbu, Viorel et al., 2004b:93012**
He, Jiwen *see* **Glowinski, Roland et al., 2004g:93023**
Helmke, Uwe (*with* Wirth, Fabian) On controllability of the real shifted inverse power iteration. (English summary) **2004j:93008**
Hu, Guang-Di (*with* Davison, Edward J.) Real controllability/stabilizability radius of LTI systems. (English summary) **2004j:93009**
Huang, Qing Dao (*with* Zhu, Wen Zhuang; Wang, Guo Ming) Controllability of second-order nonlinear systems with three-point boundary values. (Chinese. English and Chinese summaries)
Iannelli, Mimmo *see* **Ainseba, Bedr'Eddine, 2004k:93006**
Il'in, Vladimir Aleksandrovich[1] Boundary control of the vibrations of a string at two endpoints under the condition of the existence of finite energy. (Russian) **2004e:93014**
Imanuvilov, Oleg Yurievich (*with* Yamamoto, Masahiro) Remarks on Carleman estimates and exact controllability of the Lamé system. (English summary) **2004a:93011**
Jiang, Wei[1] Controllability of delay degenerate control systems with independent subsystems. (Chinese. English and Chinese summaries)
Johnson, Russell A. *see* **Fabbri, Roberta et al., 2004i:93014**
Kang, Jum-Ran (*with* Kwun, Young Chel; Park, Jong Yeoul) Controllability of the second-order differential inclusion in Banach spaces. (English summary) **2004i:93016**
Kang, Wei (*with* Xiao, MingQing; Tall, Issa Amadou) Controllability and local accessibility—a normal form approach. (English summary) **2004j:93010**
Kapitonov, Boris V. (*with* Raupp, Marco Antonio) Simultaneous exact control of piezoelectric systems in multilayered media. (English summary) **2004j:93011**
Karrakchou, J. *see* **Rachik, Mostafa et al., 2004d:93017**
Kawamura, Takeshi (*with* Shima, Masasuke) Analysis of controllability and observability of linear system with structured uncertainties using monotonization methods. (English summary)
Khan, K. H. *see* **Rehman, Fazal-Ur, 2004e:93019**
Khapalov, Alexander Y. Bilinear controllability properties of a vibrating string with variable axial load and damping gain. (English summary) **2004i:93017**
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Kim, Seon Yu (*with* Park, Dong Gun; Lee, Bu Young) T-controllability of nonlinear delay parabolic equations. (English summary)
Kisielewicz, Michał Controllability theorems for nonlinear dynamical systems. (English summary) **2004c:93013**
Klamka, Jerzy Constrained exact controllability of semilinear systems. (English summary) **2004g:93026**
Kloeden, Peter E. *see* **Fabbri, Roberta et al., 2004i:93014**
Kong, De-Xing Global exact boundary controllability of a class of quasilinear hyperbolic systems of conservation laws. (English summary) **2004g:93027**
Krabs, Werner On local fixed point controllability of nonlinear difference equations. (English summary) **2004e:93015**
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Kurek, Jerzy E. Controllability and reconstructability of a system described by the N-D Roesser model. (English summary) **2004e:93016**
Kwun, Young Chel *see* **Park, Jong Yeoul et al., 2004e:93018**; **Kang, Jum-Ran et al., 2004i:93016** *and* **Park, Jong Seo et al.**
Larin, Vladimir B. About the antistabilizing solution of the DARE. (English summary)
Lasiecka, Irena *see* **Avalos, George, 2004h:93010**
Lavilledieu, Philippe (*with* Seeger, Alberto) Rank condition and controllability of parametric convex processes. (English summary) **2004a:93013**
Lee, Bu Young *see* **Kim, Seon Yu et al.**
Lee, Haeng Joo *see* **Park, Jong Yeoul et al., 2004e:93018**
Leiva, Hugo A necessary and sufficient algebraic condition for the controllability of a thermoelastic plate equation. (English summary) **2004k:93012**
— Unbounded perturbation of the controllability for evolution equations. (English summary) **2004b:93015**
Li, Guo Cheng (*with* Xue, Xiao Ping) Controllability of evolution inclusions with nonlocal conditions. (English summary) **2004d:93014**
Li, Ta Tsien (*with* Yu, Li Xin) Contrôlabilité exacte frontière pour les équations des ondes quasi linéaires unidimensionnelles. (English and French summaries) [Exact boundary controllability for 1-D quasilinear wave equations] **2004h:93016**
— (*with* Rao, Bo-Peng) Exact boundary controllability for quasi-linear hyperbolic systems. (English summary) **2004b:93016**
Límaco, Juan (*with* Medeiros, Luis A.; Zuazua, Enrique) Existence, uniqueness and controllability for parabolic equations in non-cylindrical domains. (English summary) **2004m:93014**
— *see also* **Quiroga de Caldas, Cruz Sonia et al., 2004f:93015**; **de Menezes, Silvano Bezerra et al., 2004i:93018** *and* **2004j:93012**
Lin, Yan-ping *see* **Zhang, Guo Feng[3] et al., 2004c:93020**
Lions, Jacques-Louis *see* **Glowinski, Roland et al., 2004g:93023** *and* **Díaz Díaz, Jesús Ildefonso**
Luo, Yue Hu *see* **Guo, Bao Zhu, 2004i:93015**
Lyashko, Sergei I. (*with* Semenov, Volodimir V.; Sergienko, T. I.) Controllability and optimization of systems of pseudohyperbolic type. (Russian. English and Ukrainian summaries) **2004h:93017**
Mabrouk, Mongi *see* **Brogliato, Bernard et al., 2004b:93013**
Mahmudov, Nazim I. (*with* Zorlu, S.) Controllability of non-linear stochastic systems. (English summary) **2004b:93017**
— (*with* Zorlu, S.) Approximate controllability of semilinear neutral systems in Hilbert spaces. (English summary) **2004h:93018**
— Controllability of semilinear stochastic systems in Hilbert spaces. (English summary) **2004h:93019**
— Approximate controllability of semilinear deterministic and stochastic evolution equations in abstract spaces. (English summary) **2004m:93015**
Maĭlybaev, A. A. The uncontrollability set of linear systems that depend on parameters. (Russian) **2004f:93012**
Mamani Troncoso, Richard M. Regular elements and global controllability in $\mathrm{SL}(d, \mathbb{R})$. (English summary) **2004k:93013**
Manimegalai, P. *see* **Anandhi, E. Radhakrishnan, 2004k:93007**

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Martinez, Patrick (*with* Vancostenoble, Judith) Exact controllability in "arbitrarily short time" of the semilinear wave equation. (English summary) **2004d:93015**
— (*with* Raymond, Jean-Pierre; Vancostenoble, Judith) Regional null controllability of a linearized Crocco-type equation. (English summary) **2004d:93016**
Martínez, Sonia *see* **Cortés, Jorge**, **2004c:93010**
Matviĭchuk, A. R. An algorithm for constructing a controllability set under phase constraints. (Russian. Russian summary) **2004m:93016**
McClamroch, N. Harris *see* **Shen, Jinglai et al.**, **2004m:93018**
McKibben, Mark A. Approximate controllability for a class of abstract second-order functional evolution equations. (English summary) **2004e:93017**
McMickell, M. Brett (*with* Goodwine, Bill) Reduction and non-linear controllability of symmetric distributed systems. (English summary) **2004k:93014**
Medeiros, Luis A. *see* **de Menezes, Silvano Bezerra et al.**, **2004i:93018**; **2004j:93012**; **Límaco, Juan et al.**, **2004m:93014** *and* **Antunes, G. O. et al.**
Megan, Mihail (*with* Sasu, Adina Luminiţa; Sasu, Bogdan) On approximate controllability of systems associated to linear skew-product semiflows. (English summary) **2004c:93014**
Melody, James (*with* Başar, Tamer; Bullo, Francesco) On nonlinear controllability of homogeneous systems linear in control. (English summary) **2004b:93018**
de Menezes, Silvano Bezerra (*with* Limaco, Juan; Medeiros, Luis A.) Remarks on null controllability for heat equations in thin domains. (English summary) **2004i:93018**
— Approximate controllability for the semilinear heat equation in $\mathbb{R}^N$ involving gradient terms. (English summary) **2004h:93020**
— (*with* Límaco, Juan; Medeiros, Luis A.) Remarks on null controllability for semilinear heat equation in moving domains. (English summary) **2004j:93012**
Mezić, Igor Controllability, integrability and ergodicity. (English summary) **2004g:93028**
Minchenko, Leonid I. (*with* Sirotko, S. I.) On conditions for the local controllability of discrete inclusions with delay. (Russian. Russian summary)
Moran, William *see* **Avdonin, Sergei A.**, **2004f:93008**
Muñoz Rivera, Jaime Edilberto (*with* Naso, Maria Grazia) Exact boundary controllability in thermoelasticity with memory. (English summary) **2004c:93015**
Naso, Maria Grazia *see* **Muñoz Rivera, Jaime Edilberto**, **2004c:93015**
Negreanu, Mihaela (*with* Zuazua, Enrique) Uniform boundary controllability of a discrete 1-D wave equation. (English summary) **2004j:93013**
Ntouyas, Sotiris K. *see* **Benchohra, Mouffak et al.**, **2004a:93008**; **2004c:93008**; **2004f:93009** *and* **2004j:93006**
Ortega, Jaime H. (*with* Zuazua, Enrique) On a constrained approximate controllability problem for the heat equation: addendum. (English summary) **2004f:93013**
Osses, Axel *see* **Dubova, Anna et al.**, **2004c:93011** *and* **Conca, Carlos et al.**, **2004g:93022**
Ovseevich, A. I. *see* **Chernous'ko, F. L.**, **2004k:93010**
Owens, David H. *see* **Dymkov, M. P. et al.**, **2004e:93012**
Park, Dong Gun *see* **Kim, Seon Yu et al.**
Park, Jong Seo (*with* Choi, Jae Rong; Kwun, Young Chel) Controllability of the nonlinear neutral fuzzy differential equations with nonlocal initial condition on E_N^2. (English summary)
Park, Jong Yeoul (*with* Kwun, Young Chel; Lee, Haeng Joo) Controllability of second-order neutral functional differential inclusions in Banach spaces. (English summary) **2004e:93018**
— *see also* **Kang, Jum-Ran et al.**, **2004i:93016**
Pickl, Stefan On norm-minimal local controllability of time-discrete dynamical systems applying the Kalman condition. An algorithmic approach. (English summary)
Poddubnaya, O. N. *see* **Marchenko, Vladimir Matveevich**
Popa, Cătălin *see* **Barbu, Viorel et al.**, **2004b:93012**
Pranoto, Iwan Exact controllability of Klein-Gordon systems with a time-varying parameter. (English summary) (*see* **2004h:00019**)
Priola, Enrico (*with* Zabczyk, Jerzy) Null controllability with vanishing energy. (English summary) **2004f:93014**
Puel, Jean-Pierre *see* **Dubova, Anna et al.**, **2004c:93011**
Qian, Tong-Hui *see* **Guan, Zhi-Hong et al.**, **2004g:93024**
Qin, Huashu *see* **Chen, Pengnian**, **2004h:93013**
Quiroga de Caldas, Cruz Sonia (*with* Límaco, Juan; Barreto, Rioco K.; Gamboa, Pedro) Exact controllability for the equation of the one dimensional plate in domains with moving boundary. (English and Spanish summaries) **2004f:93015**
Rachik, Mostafa (*with* Karrakchou, J.; Abdelhak, Ahmed) Exact controllability of discrete distributed delayed systems with delays in the control variable. (English summary) **2004d:93017**
Rao, Bo-Peng *see* **Li, Ta Tsien**, **2004b:93016**
Raupp, Marco Antonio *see* **Kapitonov, Boris V.**, **2004j:93011**
Raymond, Jean-Pierre *see* **Martinez, Patrick et al.**, **2004d:93016**
Rehman, Fazal-Ur (*with* Khan, K. H.) Controllability and observability of non-linear systems using fixed point theory. (English summary) **2004e:93019**
Reis, Ronan A. *see* **Braga Barros, Carlos José**, **2004i:93012**
Röbenack, Klaus Computation of the observer gain for extended Luenberger observers using automatic differentiation. (English summary) **2004k:93015**
Rogers, Eric *see* **Dymkov, M. P. et al.**, **2004e:93012**
Romero-Vivo, Sergio *see* **Bru, Rafael et al.**, (**2004h:93004**)
Rosier, Lionel A fundamental solution supported in a strip for a dispersive equation. (English summary) **2004h:93021**
Ruzakova, O. A. Finite-dimensional controllability of Sobolev-type equations. (Russian. Russian summary) **2004j:93014**
— *see also* **Fedorov, V. E.**, **2004m:93013**
Saint Jean Paulin, Jeannine *see* **Conca, Carlos et al.**, **2004g:93022**
Sakthivel, R. (*with* Choi, Q-Heung) A study on controllability of semilinear integrodifferential systems in Banach spaces. (English summary) **2004m:93017**
Sánchez, Elena *see* **Cantó, Begoña et al.**, **2004i:93013** *and* **Bru, Rafael et al.**, (**2004h:93004**)
Sasane, Amol J. (*with* Thomas, Erik G. F.; Willems, Jan C.) Time-autonomy versus time-controllability. (English summary) **2004f:93016**
— Distance between behaviours. (English summary) **2004c:93016**
Sasu, Adina Luminiţa *see* **Megan, Mihail et al.**, **2004c:93014**
Sasu, Bogdan *see* **Megan, Mihail et al.**, **2004c:93014**
Seeger, Alberto *see* **Lavilledieu, Philippe**, **2004a:93013**
Seidman, Thomas I. *see* **Avdonin, Sergei A.**, **2004k:93008**
Semenov, Volodimir V. *see* **Lyashko, Sergei I. et al.**, **2004h:93017**
Sergienko, T. I. *see* **Lyashko, Sergei I. et al.**, **2004h:93017**
Shashikhin, V. N. Criteria for the controllability and observability of interval systems in the synthesis of a robust control. (Russian. English, Russian and Ukrainian summaries) **2004e:93020**
Shen, Jinglai (*with* McClamroch, N. Harris; Bloch, Anthony M.) Local equilibrium controllability of multibody systems controlled via shape change. (English summary) **2004m:93018**
Sheng, Yun Long[2] (*with* Yan, Zhi An; Su, Hong Ye; Chu, Jian) Efficient algorithm for computation of controllable region of linear discrete-time systems with bounded input. (Chinese. English and Chinese summaries)
Shima, Masasuke *see* **Kawamura, Takeshi**
Sikora, Beata On the constrained controllability of dynamical systems with multiple delays in the state. (English summary) **2004j:93015**
Sirotko, S. I. *see* **Minchenko, Leonid I.**
Sklyar, Grigory M. (*with* Fardigola, L. V.) The Markov power moment problem in problems of controllability and frequency extinguishing for the wave equation on a half-axis. (English summary) **2004a:93014**
— (*with* Fardigola, L. V.) The Markov trigonometric moment problem in controllability problems for the wave equation on a half-axis. (English summary) **2004b:93019**
— *see also* **Krabs, Werner et al.**, **2004a:93012**
Son, Kuk Hyeon *see* **Han, Hyo-Keun**
Spadini, Marco *see* **Colonius, Fritz**, **2004f:93010**
Sritharan, S. S. *see* **Barbu, Viorel et al.**, **2004b:93012**
Su, Hong Ye *see* **Sheng, Yun Long[2] et al.**
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Świerniak, Andrzej *see* **Czornik, Adam**, (**2004h:93004**)
Tall, Issa Amadou *see* **Kang, Wei et al.**, **2004j:93010**
Tataru, Daniel *see* **Anita, Sebastian[2]**, **2004b:93010**
Thomas, Erik G. F. *see* **Sasane, Amol J. et al.**, **2004f:93016**
Tikhomirov, V. V. The wave equation with boundary control in the case of elastic clamping. I. (Russian. Russian summary) **2004j:93016**
— The wave equation with boundary control in the case of elastic clamping. II. (Russian. Russian summary) **2004j:93017**
Trentelman, H. L. On flat systems behaviors and observable image representations. (English summary) **2004j:93018**
Tsinias, J. Propagating asymptotic controllability through integrators. (English summary) **2004i:93019**
Uchiumi, J. Controllability of a system coupled by Euler-Bernoulli beams with simply supported boundary. (English summary) **2004c:93017**
Valcher, Maria Elena *see* **Fornasini, Ettore**, **2004h:93015**
Vancostenoble, Judith *see* **Martinez, Patrick et al.**, **2004d:93015** *and* **2004d:93016**
Wang, Gengsheng *see* **Wang, Li Juan**, **2004j:93019**
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Willems, Jan C. *see* **Sasane, Amol J. et al.**, **2004f:93016**
Wirth, Fabian *see* **Helmke, Uwe**, **2004j:93008**
Woźniak, Jarosław *see* **Krabs, Werner et al.**, **2004a:93012**
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Xie, Guang Ming (*with* Wang, Long[1]) Reachability and controllability of positive linear discrete-time systems with time-delays. (English summary) **2004i:93020**
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Yang, Shiyuan *see* **Xue, Yueju**, **2004c:93019**
Ye, Qing Kai *see* **Xie, Guang Ming et al.**, **2004k:93016a**; **2004k:93016b** *and* **2004k:93016c**
Yu, Li Xin *see* **Li, Ta Tsien**, **2004h:93016**
Yu, Xinghuo *see* **Guan, Zhi-Hong et al.**, **2004g:93024**
Zabczyk, Jerzy *see* **Priola, Enrico**, **2004f:93014**
Zavala-Río, Arturo *see* **Brogliato, Bernard et al.**, **2004b:93013**
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Zhu, Wen Zhuang *see* **Huang, Qing Dao et al.**
Zorlu, S. *see* **Mahmudov, Nazim I., 2004b:93017** *and* **2004h:93018**
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— *see also* **Ortega, Jaime H., 2004f:93013**; **Chenais, Denise, 2004g:93021**; **Fernández-Cara, Enrique, 2004h:93014**; **Negreanu, Mihaela, 2004j:93013** *and* **Limaco, Juan et al., 2004m:93014**

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Alabau-Boussouira, Fatiha A two-level energy method for indirect boundary observability and controllability of weakly coupled hyperbolic systems. (English summary) **2004h:93023**
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Bianchini, Rosa-Maria (*with* Kawski, Matthias) Needle variations that cannot be summed. (English summary) **2004b:49042**
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Douady, Raphaël *see* **Bardos, Claude et al., 2004b:91086**
Doumanidis, Charalabos C. *see* **Alaeddine, Marios**
Evans, Robin J. *see* **Savkin, A. V., 2004i:93004**
Florinskiĭ, V. V. *see* **Korobov, V. Ĭ. et al., 2004g:49035**
Fursikov, Andrei V. *see* **Bardos, Claude et al., 2004b:91086**
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Ghafrani, F. *see* **Zerrik, El Hassane, 2004k:49056**
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Hill, David John *see* **Zhang, Qing Ling et al.**
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Imanuvilov, Oleg Yurievich On Carleman estimates for hyperbolic equations. (English summary) **2004h:35129**
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Jacob, Birgit *see* **Zwart, Hans et al., 2004i:93094**
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(Jørgensen, Sten Bay) *see* **Hangos, K. M. et al., 2004m:93002**
Ju, Lili (*with* Gunzburger, Max D.; Hou, LiSheng) Approximation of exact boundary controllability problems for the 1-D wave equation by optimization-based methods. (English summary) **2004k:65140**
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Kawski, Matthias *see* **Bianchini, Rosa-Maria, 2004b:49042**
Kim, Jong Uhn Approximate controllability of a stochastic wave equation. (English summary) **2004j:60136**
Kokkonen, P. *see* **Tervo, J. et al., 2004j:93066**
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Kostin, Alexander E. Reachability analysis in T-invariant-less Petri nets. (English summary) **2004d:93085**
Leahy, J. V. *see* **Schirmer, S. G. et al., 2004a:81077**
Lhous, M. *see* **Rachik, Mostafa et al., 2004c:49008**
Liu, Kang Sheng (*with* Yamamoto, Masahiro; Zhang, Xu[1]) Observability inequalities by internal observation and their applications. (English summary) **2004b:93067**
Liu, Wan Quan *see* **Zhang, Qing Ling et al.**
Loreti, Paola *see* **Komornik, Vilmos et al., 2004h:93099**
Lunze, Jan (*with* Nixdorf, Bernhard) Discrete reachability of hybrid systems. (English summary) **2004j:93075**
Marchand, Nicolas *see* **Alamir, Mazen, 2004h:93094**
Marquez, H. J. *see* **Polushin, I. G., 2004h:93140**
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Motta, Monica (*with* Sartori, Caterina) Minimum time with bounded energy, minimum energy with bounded time. (English summary) **2004g:49037**
Mukherjee, Rathindra Nath[2] Global controllability of a class of minimum time control problems for bounded phase co-ordinate control problems. (English summary) **2004b:49051**
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Nihtilä, M. T. *see* **Tervo, J. et al., 2004j:93066**
Nixdorf, Bernhard *see* **Lunze, Jan, 2004j:93075**
Ntouyas, Sotiris K. *see* **Benchohra, Mouffak, 2004c:34177**
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Park, Jong Yeoul *see* **Balachandran, Krishnan, 2004k:34120**
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Polushin, I. G. (*with* Marquez, H. J.) On the existence of a continuous storage function for dissipative systems. (English summary) **2004h:93140**
Prepeliță, Valeriu Criteria of reachability for 2D continuous-discrete systems. (English summary) **2004i:93095**
Rachik, Mostafa (*with* Lhous, M.; Tridane, A.) Controllability and optimal control problem for linear time-varying discrete distributed systems. (English summary) **2004c:49008**
Rastović, Danilo A note on some classes of path connected transport systems. (English summary) **2004i:93093**
Russell, David L. *see* **Schenck, David R., 2004i:74082**; **Johnson, Harry L., 2004j:93065** *and* **2004j:93078**
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Sarrate, Josep *see* **Capella, Antonio, 2004f:65113**
Sartori, Caterina *see* **Motta, Monica, 2004g:49037**
Savkin, A. V. (*with* Evans, Robin J.) ★ Hybrid dynamical systems. **2004i:93004**
Schenck, David R. (*with* Russell, David L.) A formation problem in plane elasticity. (English summary) **2004i:74082**
Schirmer, S. G. (*with* Solomon, Allan I.; Leahy, J. V.) Criteria for reachability of quantum states. (English summary) **2004a:81077**
Shah, Rajesh C. *see* **George, Raju K.**
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Sklyar, Grigory M. *see* **Korobov, V. Ĭ. et al., 2004g:49035**
Skoryk, Vasyl O. *see* **Korobov, V. Ĭ., 2004a:93032**
Solomon, Allan I. *see* **Schirmer, S. G. et al., 2004a:81077**
Spong, Mark W. Impact controllability of an air hockey puck. (English summary)
Staffans, Olof J. *see* **Zwart, Hans et al., 2004i:93094**
Sun, Guo-Hua *see* **Dong, Shi-Hai et al., 2004m:81092**
Szederkényi, G. *see* **Hangos, K. M. et al., 2004m:93002**
Tang, Yu *see* **Dong, Shi-Hai et al., 2004m:81092**
Tervo, J. (*with* Nihtilä, M. T.; Kokkonen, P.) On controllability, parametrization, and output tracking of a linearized bioreactor model. **2004j:93066**
Tessitore, Gianmario *see* **Sîrbu, Mihai, 2004f:93126**
Tridane, A. *see* **Rachik, Mostafa et al., 2004c:49008**
Ural, Hasan (*with* Whittier, David) Distributed testing without encountering controllability and observability problems. (English summary) **2004g:93101**
Vergara-Caffarelli, Giorgio *see* **Komornik, Vilmos et al., 2004h:93099**
Whittier, David *see* **Ural, Hasan, 2004g:93101**
Wysocki, Hubert Observability of a generalized linear control system. (English summary) **2004j:93022**
Yachimovich, V. *see* **Arutyunov, Aram V., 2004i:49042**
Yamamoto, Masahiro *see* **Liu, Kang Sheng et al., 2004b:93067** *and* **Imanuvilov, Oleg Yurievich, 2004g:35117**
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Zhang, Qing Ling (*with* Liu, Wan Quan; Hill, David John) A Lyapunov approach to analysis of discrete singular systems. (English summary)
Zhang, Xu[1] *see* **Liu, Kang Sheng et al., 2004b:93067**

Zuazua, Enrique *see* **Castro Barbero, Carlos**, **2004j:49026** *and* **Negreanu, Mihaela**
Zwart, Hans (*with* Jacob, Birgit; Staffans, Olof J.) Weak admissibility does not imply admissibility for analytic semigroups. (English summary) **2004i:93094**

93B07 Observability

Aghannan, Nasradine (*with* Rouchon, Pierre) An intrinsic observer for a class of Lagrangian systems. (English summary) **2004g:93030**
Alabau-Boussouira, Fatiha A two-level energy method for indirect boundary observability and controllability of weakly coupled hyperbolic systems. (English summary) **2004h:93023**
Antsaklis, Panos J. *see* **Lin, Hai[1] et al.**, **2004i:93026**
Arcak, Murat *see* **Fan, Xingzhe**, **2004h:93026**
Barsegyan, V. R. *see* **Gabrielyan, M. S.**
Bian, Min *see* **Gao, Zhi Wei et al.**
Bouhenna, Abderrahmane *see* **Mansouri, Abdellah et al.**
Bourray, Hamid *see* **Zerrik, El Hassane**, **2004e:93021**
Boutayeb, M. Observers design for linear time-delay systems. (English summary) **2004g:93031**
Califano, C. (*with* Monaco, Salvatore; Normand-Cyrot, D.) On the observer design in discrete-time. (English summary) **2004h:93024**
Chandra, R. S. *see* **Krishnamurthy, Prashanth et al.**, **2004i:93025**
Chen, Xinkai (*with* Fukuda, Toshio) A robust implicit state observer for multiple-input multiple-output uncertain systems. (English summary) **2004a:93015**
Chenafa, Mohammed *see* **Mansouri, Abdellah et al.**
Cherid, A. *see* **Fiagbedzi, Yawvi A.**, **2004h:93027**
Couchouron, Jean-François (*with* Ligarius, P.) Nonlinear observers in reflexive Banach spaces. (English summary) **2004i:93021**
Dawson, D. M. *see* **Dixon, W. E. et al.**, **2004i:93022**
Demetriou, Michael A. (*with* Kazantzis, Nikolaos) Compensation of spatiotemporally varying disturbances in nonlinear transport processes via actuator scheduling. (English summary)
Dixon, W. E. (*with* Fang, Yongchun; Dawson, D. M.; Flynn, T. J.) Range identification for perspective vision systems. (English summary) **2004i:93022**
Dochain, Denis State observers for processes with uncertain kinetics. (English summary) **2004h:93025**
Duan, Xiao Dong *see* **Han, Zhi Tao et al.**
Edwards, Christopher *see* **Tan, Chee Pin**, **2004b:93022**
Etien, Erik *see* **Mansouri, Abdellah et al.**
Fan, Xingzhe (*with* Arcak, Murat) Observer design for systems with multivariable monotone nonlinearities. (English summary) **2004h:93026**
Fang, Hua-Jing *see* **Zheng, Ying et al.**
Fang, Yongchun *see* **Dixon, W. E. et al.**, **2004i:93022**
Feng, Jian *see* **Wang, Zhan Shan et al.**
Fiagbedzi, Yawvi A. (*with* Cherid, A.) Finite-dimensional observers for delay systems. (English summary) **2004h:93027**
Flynn, T. J. *see* **Dixon, W. E. et al.**, **2004i:93022**
Fomichev, V. V. *see* **Korovin, S. K.**, **2004a:93017**
Fukuda, Toshio *see* **Chen, Xinkai**, **2004a:93015**
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Gao, Zhi Wei (*with* Wu, Ya Jun; Bian, Min) Parameterization of all observers for generalized dynamical systems. (Chinese. English and Chinese summaries)
Gouzé, Jean-Luc *see* **Rapaport, A.**, **2004d:93018**
Guo, L. Z. (*with* Zhu, Quan Min) A fast convergent extended Kalman observer for nonlinear discrete-time systems. (English summary) **2004a:93016**
Hammouri, H. *see* **Nadri, M.**, **2004g:93032**
Han, Zheng Zhi *see* **Zhu, Fang Lai**
Han, Zhi Tao (*with* Duan, Xiao Dong; Zhang, Si Ying) Weak observability of a nonlinear large-scale system. (Chinese. English and Chinese summaries)
Huang, Biao *see* **Wang, Zidong et al.**
Ibrir, Salim Online exact differentiation and notion of asymptotic algebraic observers. (English summary) **2004i:93023**
Jacob, Birgit (*with* Zwart, Hans) Exact observability of diagonal systems with a finite-dimensional output operator. (English summary) **2004f:93017**
Ji, Hai Bo *see* **Wang, Bing et al.**, **2004i:93027**
Kazantzis, Nikolaos (*with* Kravaris, Costas) Discrete-time nonlinear observer design using functional equations. (English summary)
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Komornik, Vilmos (*with* Loreti, Paola) Dirichlet series and simultaneous observability: two problems solved by the same approach. (English summary) **2004i:93024**
Korovin, S. K. (*with* Fomichev, V. V.) Asymptotic observers for bilinear systems on the plane. (Russian. Russian summary) **2004a:93017**
Koval'chuk, O. F. *see* **Podlipenko, Yu. K.**
Kravaris, Costas *see* **Xiao, MingQing et al.**, **2004b:93023** *and* **Kazantzis, Nikolaos**
Krener, Arthur J. *see* **Xiao, MingQing et al.**, **2004b:93023**
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Lam, James *see* **Yan, Xing-Gang et al.**, **2004c:93021**
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Li, Ming[10] *see* **Wang, Zhan Shan et al.**
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Loreti, Paola *see* **Komornik, Vilmos**, **2004i:93024**
Maloum, A. *see* **Rapaport, A.**, **2004k:93018**
Mansouri, Abdellah (*with* Chenafa, Mohammed; Bouhenna, Abderrahmane; Etien, Erik) Powerful nonlinear observer associated with field-oriented control of an induction motor. (English summary)
Minyuk, Stepan (*with* Tsekhan, Olga) Observability of linear stationary system with delay. (English summary) **2004f:93018**
Monaco, Salvatore *see* **Califano, C. et al.**, **2004h:93024**
Nadri, M. (*with* Hammouri, H.) Design of a continuous-discrete observer for state affine systems. (English summary) **2004g:93032**
Normand-Cyrot, D. *see* **Califano, C. et al.**, **2004h:93024**
Oltean, Virginia Ecaterina The observability concept in a class of hybrid control systems. (English summary)
Pan, Li Ping (*with* Teo, Kok Lay; Zhang, Xu[1]) State-observation problem for a class of semi-linear hyperbolic systems. (Chinese. English and Chinese summaries) **2004m:93020**
Pârvan, Monica *see* **Prepeliță, Valeriu**, **2004k:93017**
Phung, Kim-Dang Remarques sur l'observabilité pour l'équation de Laplace. (English and French summaries) [Remarks on observability for the Laplace equation] **2004g:93033**
Podlipenko, Yu. K. (*with* Koval'chuk, O. F.) A minimax approach to the problem of the estimation of solutions of systems of parabolic equations that describe the diffusion of an admixture in the atmosphere. (Ukrainian. English and Ukrainian summaries)
Prepeliță, Valeriu (*with* Pârvan, Monica) Observability of 2D continuous-discrete separable linear systems. (English summary) **2004k:93017**
Rapaport, A. (*with* Gouzé, Jean-Luc) Paralleltopic and practical observers for non-linear uncertain systems. (English summary) **2004d:93018**
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Rouchon, Pierre *see* **Aghannan, Nasradine**, **2004g:93030**
Sedoglavic, Alexandre A probabilistic algorithm to test local algebraic observability in polynomial time. (English summary) (*see* **2004j:68016**)
Seo, Jin H. *see* **Shim, Hyungbo et al.**
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Shklyar, B. Observability of evolution equations. (English summary) **2004m:93021**
Son, Young I. *see* **Shim, Hyungbo et al.**
Starkov, Konstantin E. Observability conditions of linear time-varying systems and its computational complexity aspects. (English summary) **2004b:93021**
Sundarapandian, V. General observers for discrete-time nonlinear systems. (English summary) **2004j:93020**
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Tan, Chee Pin (*with* Edwards, Christopher) Sliding mode observers for robust detection and reconstruction of actuator and sensor faults. (English summary) **2004b:93022**
Teo, Kok Lay *see* **Pan, Li Ping et al.**, **2004m:93020**
Tsekhan, Olga *see* **Minyuk, Stepan**, **2004f:93018**
Unbehauen, H. *see* **Wang, Zidong et al.**
Vivalda, J.-C. On the genericity of the observability of uncontrolled discrete nonlinear systems. (English summary) **2004m:93022**
Wang, Bing (*with* Ji, Hai Bo; Xi, Hong Sheng) Nonlinear observer design via circle criterion. (Chinese. English and Chinese summaries) **2004i:93027**
Wang, Hua O. *see* **Zheng, Ying et al.**
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Wu, Ya Jun *see* **Gao, Zhi Wei et al.**
Wysocki, Hubert Observability of a generalized linear control system. (English summary) **2004j:93022**
Xi, Hong Sheng *see* **Wang, Bing et al.**, **2004i:93027**
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Xie, Li Hua *see* **Yan, Xing-Gang et al.**, **2004c:93021**
Xie, Lin-Bo *see* **Zheng, Ying et al.**
Xu, Aiping (*with* Zhang, Qing Hua[2]) Residual generation for fault diagnosis in linear time-varying systems. (English summary) **2004m:93023**
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93B10 Canonical structure

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93B11 System structure simplification

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93B15 Realizations from input-output data

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Shima, Masasuke *see* **Kawamura, Takeshi**, **2004c:93082**
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Thome, Néstor *see* **Bru, Rafael et al.**, **2004i:93104**

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Vladimirov, A. A. *see* **Blondel, Vincent D. et al., 2004g:15010**
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93B28 Operator-theoretic methods [see also 47A48, 47A57, 47B35, 47N70]

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Pott, Sandra *see* **Jacob, Birgit et al., 2004g:93048**
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Items with secondary classifications in 93B28

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Ran, André C. M. *see* **Petersen, Mark Adam, 2004h:47022**
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Sasu, Adina Luminița *see* **Megan, Mihail et al., 2004c:93014**
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Soh, Yeng Chai *see* **Zhang, Huanshui et al., 2004g:93150**
Tsekanovskiĭ, Eduard *see* **Alpay, Daniel, 2004d:47027** *and* **Arlinskiĭ, Yu. M., 2004i:47020**
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Zames, G. *see* **Djouadi, Seddik M., 2004h:93050**
Zeng, Yi *see* **Wu, Kai Teng**
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93B29 Differential-geometric methods

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Cariñena, José F. (*with* Clemente-Gallardo, Jesús; Ramos, Arturo) Motion on Lie groups and its applications in control theory. (English summary) **2004f:93034**
Clemente-Gallardo, Jesús *see* **Cariñena, José F. et al., 2004f:93034**
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Firer, M. (*with* Do Rocío, Osvaldo) Invariant control sets on flag manifolds and ideal boundaries of symmetric spaces. (English summary) **2004g:93049**
García-Planas, Ma. Isabel Generic families of generalized linear systems. (English summary) **2004d:93028**
Ibort, Luis Alberto *see* **Delgado-Téllez, M.**
Kantor, George A. (*with* Krishnaprasad, P. S.) An application of Lie groups in distributed control networks. (English summary) **2004k:93024**
Krishnaprasad, P. S. *see* **Kantor, George A., 2004k:93024**
Ramos, Arturo *see* **Cariñena, José F. et al., 2004f:93034**
Zelenko, I. *see* **Agrachev, Andrei A., 2004b:93035**

Items with secondary classifications in 93B29

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Bloch, Anthony M. ★ Nonholonomic mechanics and control. **2004e:37099**
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Fuhrmann, P. A. *see* **Trumpf, J. et al., 2004g:93034**
García-Planas, Ma. Isabel Controllability of l-order linear systems. (English summary) **2004d:93013**
Grochowski, Marek Normal forms of germs of contact sub-Lorentzian structures on $\mathbb{R}^3$. Differentiability of the sub-Lorentzian distance function. (English summary) **2004g:53075**
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Jean, Frédéric Entropy and complexity of a path in sub-Riemannian geometry. (English summary) **2004h:53044**
Jönsson, Ulf T. *see* **Hu, Xiaoming et al.,** (**2004e:93003**)
Krbek, Michael (*with* Musilová, Jana) Representation of the variational sequence by differential forms. (English summary) **2004g:58020**
(Krishnaprasad, P. S.) *see* **Bloch, Anthony M., 2004e:37099**
Langerock, Bavo Geometric aspects of the maximum principle and lifts over a bundle map. (English summary) **2004f:49045**
— Autonomous optimal control problems. (English summary) **2004e:49032**
Leonard, N. E. *see* **Chyba, Monique et al., 2004a:49028**
Lin, Wei[2] *see* **Cheng, Dai Zhan, 2004d:93020**
Lindquist, Anders *see* **Byrnes, Christopher I. et al., 2004c:93120**
(Marsden, Jerrold E.) *see* **Bloch, Anthony M., 2004e:37099**
Martin, Clyde F. *see* **Hu, Xiaoming et al.,** (**2004e:93003**)
Martínez, Sonia *see* **Cortés, Jorge, 2004c:93010** *and* **2004g:93103**
Michalska, Hannah H. (*with* Torres-Torriti, Miguel) A geometric approach to feedback stabilization of nonlinear systems with drift. (English summary) **2004h:93165**
(Murray, Richard M.) *see* **Bloch, Anthony M., 2004e:37099**
Musilová, Jana *see* **Krbek, Michael, 2004g:58020**
Raisch, Jörg *see* **Vollmer, Ulrich**
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Sontag, Eduardo D. *see* **Chyba, Monique et al., 2004a:49028**
Spurgeon, Sarah K. *see* **Cheng, Dai Zhan et al., 2004f:93051**
Szabó, Zoltán István *see* **Balas, Gary et al., 2004i:93029**
Tarn, Tzyh-Jong *see* **Cheng, Dai Zhan et al., 2004f:93051**
Torres-Torriti, Miguel *see* **Michalska, Hannah H., 2004h:93165**
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Vollmer, Ulrich (*with* Raisch, Jörg) Control of batch cooling crystallization processes based on orbital flatness. (English summary)
(Zenkov, D. V.) *see* **Bloch, Anthony M., 2004e:37099**

93B30 System identification

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Al-Saphory, R. (*with* El Jai, A.) Asymptotic regional state reconstruction. (English summary) **2004a:93021**
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Bai, Er-Wei Frequency domain identification of Hammerstein models. (English summary) **2004m:93031**
Belforte, Gustavo (*with* Gay, Paolo) Optimal input design for set-membership identification of Hammerstein models. (English summary) **2004d:93029**
Belkoura, L. *see* **Orlov, Yu. V. et al., 2004g:93051**
Bernstein, Dennis S. *see* **Lacy, Seth L., 2004d:93032**
Billings, Stephen A. *see* **Wei, Hua-Liang et al., 2004d:93035**
Bitmead, Robert R. (*with* Sala, Antonio) Data preparation for identification. (English summary) (*see* **2004h:93003**)
Bultheel, Adhemar *see* **Van gucht, Patrick, 2004b:93040** *and* **2004h:93046**
Busvelle, Éric (*with* Gauthier, Jean-Paul) On determining unknown functions in differential systems, with an application to biological reactors. (English summary) **2004f:93035**
Byrnes, Christopher I. (*with* Lindquist, Anders) A convex optimization approach to generalized moment problems. (English summary) **2004a:93022**
Cabral, Fabricio B. *see* **Safonov, Michael G., 2004f:93038**
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Campbell, Stephen L. (*with* Nikoukhah, Ramine) ★ Auxiliary signal design for failure detection. **2004m:93032**
Casas, R. A. *see* **Thothadri, M. et al.**
Castillo, Oscar *see* **Montiel, Oscar et al.**
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— *see also* **Errata: "Structural identifiability for a class of non-linear compartmental systems using linear/non-linear splitting and symbolic computation", 2004e:93030b**
Chappell, Michael J. *see* **Chapman, Michael J. et al., 2004d:93030**; **2004e:93030a**; **2004e:93030b** *and* **Errata: "Structural identifiability for a class of non-linear compartmental systems using linear/non-linear splitting and symbolic computation", 2004e:93030b**
Chen, Xing Ling *see* **Wang, Guo Sheng et al.**
Chen, Yao *see* **Luo, Xiao et al.**
Chow, Tommy W. S. *see* **Wang, Bao-Yun et al., 2004d:93034**
Dambrine, Michel *see* **Orlov, Yu. V. et al., 2004g:93051**
D'Andrea, Raffaello *see* **Thothadri, M. et al.**
D'Attellis, Carlos Enrique *see* **Castro, Liliana R. et al.**
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Duan, Guang Ren *see* **Wang, Guo Sheng et al.**
El Jai, A. *see* **Al-Saphory, R., 2004a:93021**
Evans, Neil D. *see* **Chapman, Michael J. et al., 2004d:93030**; **2004e:93030a**; **2004e:93030b** *and* **Errata: "Structural identifiability for a class of non-linear compartmental systems using linear/non-linear splitting and symbolic computation", 2004e:93030b**
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Fikar, Miroslav *see* **Kozka, Stefan et al.**
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Garnier, H. (*with* Mensler, M.; Richard, A.) Continuous-time model identification from sampled data: implementation issues and performance evaluation. (English summary) **2004e:93031**
Gauthier, Jean-Paul *see* **Busvelle, Éric, 2004f:93035**
Gay, Paolo *see* **Belforte, Gustavo, 2004d:93029**
Gevers, Michel Identification and validation for robust control. (English summary) (*see* **2004h:93003**)
Godfrey, Keith R. *see* **Chapman, Michael J. et al., 2004d:93030**; **2004e:93030a**; **2004e:93030b** *and* **Errata: "Structural identifiability for a class of non-linear compartmental systems using linear/non-linear splitting and symbolic computation", 2004e:93030b**
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Han, Chong Zhao *see* **Wang, Wen Zheng[2] et al.**
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Hasiewicz, Zygmunt (*with* Śliwiński, P.) Identification of non-linear characteristics of a class of block-oriented non-linear systems via Daubechies wavelet-based models. (English summary) **2004b:93039**
He, Kai Feng *see* **Wang, Wen Zheng[2] et al.**
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Jiang, Pei Gang[2] *see* **Long, Tu Jing et al.**
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Joly, Ghyslaine *see* **Denis-Vidal, Lilianne et al., 2004k:93025**
Jung, Il Hyo *see* **Park, Jong Yeoul et al., 2004h:93044**
Kaneko, O. (*with* Rapisarda, Paolo) Recursive exact H_∞-identification from impulse-response measurements. (English summary) **2004i:93039**
Kang, Yong Han *see* **Park, Jong Yeoul et al., 2004h:93044**
Kirichenko, N. F. (*with* Lepekha, N. P.) Application of pseudo-inverse and projective matrices to the investigation of control, observation, and identification problems. (Russian. English and Ukrainian summaries) **2004f:93036**
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Kostoglotov, A. A. A method for the identification of the parameters of holonomic systems based on the technique of asynchronous variation. (Russian. Russian summary) **2004e:93032**
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Kurdila, Andrew J. *see* **Prazenica, Richard J., 2004m:93034**
Lacy, Seth L. (*with* Bernstein, Dennis S.) Subspace identification with guaranteed stability using constrained optimization. (English summary) **2004d:93032**
Lamnabhi-Lagarrigue, Françoise *see* **Floret-Pontet, Fabienne et al., (2004h:93004)**
Lapin, A. V. (*with* Lapin, S. A.) Identification of nonlinear coefficient in a transport equation. (English summary) **2004i:93040**
Lapin, S. A. *see* **Lapin, A. V., 2004i:93040**
Lavretskiĭ, E. Yu. (*with* Ovakimyan, N. V.; Calise, Anthony J.) Upper bounds for approximation of continuous-time dynamics using delayed outputs and feedforward neural networks. (English summary) **2004k:93028**
Lee, Jean-Pao *see* **Lin, Chun-Liang et al.**
Lepekha, N. P. *see* **Kirichenko, N. F., 2004f:93036**
Li, Chun Wen *see* **Wu, Re Bing** *and* **Long, Tu Jing et al.**
Lin, Chun-Liang (*with* Lee, Jean-Pao; Liu, Van-Tsai) Identification and control of a benchmark flexible structure using piezoelectric actuators and sensors. (English summary)
Lin, Zongli *see* **Hu, Tingshu, 2004h:93042**
Lindquist, Anders *see* **Byrnes, Christopher I., 2004a:93022**
Litvinova, V. S. *see* **Korshunov, Yu. M.**
Liu, Julian Jianhua *see* **Wei, Hua-Liang et al.**
Liu, Van-Tsai *see* **Lin, Chun-Liang et al.**
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Manton, Jonathan H. Finite alphabet source recovery in polynomial systems. (English summary) **2004g:93050**
Martínez, Miguel *see* **Picó, Jesús, (2004h:93003)**
Mazzaro, María Cecilia *see* **Sznaier, Mario, 2004k:93029**
Melin, Patricia *see* **Montiel, Oscar et al.**
Mensler, M. *see* **Garnier, H. et al., 2004e:93031**
Metel′skiĭ, A. V. (*with* Minyuk, Stepan) Reversibility in the state of linear time-independent systems of neutral type with an output. (Russian. Russian summary) **2004f:93037**
Mikles, Jan *see* **Kozka, Stefan et al.**
Milanese, Mario (*with* Novara, Carlo) Learning complex systems from data: the set membership approach. (English summary) (*see* **2004d:93004**)
— *see also* **Malan, Stefano A. et al.**
Milov, V. R. *see* **Kondrat′ev, Vyacheslav Vasil′evich**
Minyuk, Stepan *see* **Metel′skiĭ, A. V., 2004f:93037**
Montiel, Oscar (*with* Castillo, Oscar; Melin, Patricia; Sepúlveda, Roberto) Asynchronous hybrid architecture for parametric system identification using a fuzzy real coded evolutionary algorithm. (English summary)
Moon, F. C. *see* **Thothadri, M. et al.**
Mori, Kazuyoshi Relationship between standard control problem and model-matching problem without coprime factorizability. (English summary) **2004j:93029**
Mudi, Rajani K. *see* **Pal, Nikhil R. et al.**
Nagamune, Ryozo Closed-loop shaping based on Nevanlinna-Pick interpolation with a degree bound. (English summary) **2004j:93030**
Nakagiri, Shin-ichi *see* **Ha, Junhong, 2004j:93028**
Nan-Lin, Tan *see* **Wu, Bin et al., 2004i:93042**
Ng, K. T. *see* **Wang, Bao-Yun et al., 2004d:93034**
Nikoukhah, Ramine *see* **Campbell, Stephen L., 2004m:93032**
Nkwawo, Homère *see* **Floret-Pontet, Fabienne et al., (2004h:93004)**
Noiret, Céline *see* **Denis-Vidal, Lilianne et al., 2004k:93025**
Novara, Carlo *see* **Milanese, Mario, (2004d:93004)**
Orlov, Yu. V. (*with* Belkoura, L.; Richard, Jean-Pierre; Dambrine, Michel) Adaptive identification of linear time-delay systems. (English summary) **2004g:93051**
Ou, Wen *see* **Wang, Wen Zheng[2] et al.**
Ovakimyan, N. V. *see* **Lavretskiĭ, E. Yu. et al., 2004k:93028**
Ovcharenko, V. N. Practical local identifiability of the parameters of linear dynamical systems. (Russian. Russian summary) **2004m:93033**
Pal, Kuhu *see* **Pal, Nikhil R. et al.**
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Panasenko, V. V. (*with* Sokolov, S. V.; Shcherban′, I. V.) Solution of the problem of identifying the model of a dynamic object from a single observation of its state. (Russian. Russian summary)
Park, Jong Yeoul (*with* Kang, Yong Han; Jung, Il Hyo) Optimization and identification of nonlinear uncertain systems. (English summary) **2004h:93044**
Paszowski, Marek *see* **Gosiewski, Zdzisław**
Patranabis, D. *see* **Pal, Nikhil R. et al.**
Picó, Jesús (*with* Martínez, Miguel) System identification, performance and closed-loop issues. (English summary) (*see* **2004h:93003**)
Polis, Michael P. *see* **Sivergina, Irina F. et al., 2004i:93041**
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Rapisarda, Paolo *see* **Kaneko, O., 2004i:93039**
Ratschan, Stefan *see* **Jaulin, Luc et al., 2004k:93027**
Regruto, D. *see* **Malan, Stefano A. et al.**
Richard, A. *see* **Garnier, H. et al., 2004e:93031**
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Schilling, Robert J. *see* **Al-Ajlouni, A. F. et al.**
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Sepúlveda, Roberto *see* **Montiel, Oscar et al.**
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Shcherban′, I. V. *see* **Panasenko, V. V. et al.**
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Śliwiński, P. *see* **Hasiewicz, Zygmunt, 2004b:93039**
Sokolov, S. V. *see* **Panasenko, V. V. et al.**
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Wu, Xiao Qun (*with* Lu, Jun An) Parameter identification and backstepping control of uncertain Lü system. (English summary) **2004d:93036**
Xu, Li-Hong *see* **Yu, You-Ling et al.**
Youssef, Negy *see* **Sadok, El Asmi, 2004m:93035**
Yu, Wen Passivity analysis for dynamic multilayer neuro identifier. (English summary) **2004b:93041**
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Zagalak, Petr *see* **Loiseau, Jean Jacques**
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Blizorukova, Marina Positional modeling in a system with time delay. (English summary) **2004f:93072**
Böling, Jari M. *see* **Nyström, Rasmus H. et al.**, **2004c:93063**
Boussouar, Ahmed *see* **Aniţa, Sebastian**[2]
Burlaĭ, I. V. Determination of the spatial motion of nonlinear systems based on the concept of inverse problems of dynamics. (Russian. Russian summary) **2004e:93006**
Burns, John A. Nonlinear distributed parameter control systems with non-normal linearizations: applications and approximations. (English summary) **2004m:93062**
Campbell, Mark E. *see* **Scholte, Eelco**, **2004m:93131**
Carmona, Pablo (*with* Castro, J. L.; Zurita, J. M.) Learning maximal structure fuzzy rules with exceptions. (English summary)
Castro, J. L. *see* **Carmona, Pablo et al.**
Cerone, V. (*with* Regruto, D.) Parameter bounds for discrete-time Hammerstein models with bounded output errors. (English summary) **2004j:93070**
Chang, Jin *see* **Zhang, Zengke**
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Chou, Jyh-Horng (*with* Sun, Jung-Hung; Shieh, Jyh-Nan) On-line identification and optimal control of continuous-time systems. (English summary) **2004i:49071**
Chubich, V. M. *see* **Denisov, Vladimir Ivanovich et al.**
Cocquempot, Vincent *see* **Jiang, Bin et al.**, **2004m:93133**
Curtain, Ruth F. (*with* Sasane, Amol J.) Hankel norm approximation for well-posed linear systems. (English summary) **2004i:93091**
D'Angiò, Leontina *see* **Saccomani, Mariapia et al.**, (**2004g:00018**)
Dawson, D. M. *see* **Dixon, W. E. et al.**, **2004i:93022**
Dehghan, Mehdi Numerical solution of one-dimensional parabolic inverse problem. (English summary) **2004m:65142**
Deistler, Manfred *see* **Weiland, Siep et al.**, **2004g:93016**
De Moor, Bart *see* **Goethals, Ivan et al.**, **2004j:93126**
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Drozhzhina, O. V. A method for the numerical reconstruction of two coefficients in a nonlinear nonhomogeneous heat equation. (Russian. Russian summary) **2004g:65122**
Ekeland, Ivar *see* **Chiappori, Pierre-Andre et al.**, **2004m:91160**
El Alaoui Talibi, M. (*with* El Kacimi, Abdellah) Numerical simulation of the two-hydrodynamic film thickness. (English summary) **2004j:76046**
El Kacimi, Abdellah *see* **El Alaoui Talibi, M.**, **2004j:76046**
Esen, A. *see* **Aksan, E. N. et al.**, **2004k:74060**
Fang, Weifu (*with* Ito, Kazufumi) Identification of contact regions in semiconductor transistors by level-set methods. (English summary) **2004h:65113**
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Floret-Pontet, Fabienne (*with* Lamnabhi-Lagarrigue, Françoise) State and parameter identification for nonlinear uncertain systems using variable structure theory. (English summary) **2004g:93054**
Flynn, T. J. *see* **Dixon, W. E. et al.**, **2004i:93022**
Fujarewicz, Krzysztof Identification and suboptimal control of heat exchanger using generalized back propagation through time. (English summary)
Fukuda, Toshio *see* **Vachkov, Gancho**
Gerdts, Matthias Parameter optimization in mechanical multibody systems and linearized Runge-Kutta methods. (English summary)
Gevers, Michel Modelling, identification and control. (English summary) (*see* **2004h:93003**)
Ghosh, Jayati (*with* Paden, Brad) A pseudoinverse-based iterative learning control. (English summary) **2004c:93130**
Goethals, Ivan (*with* Van Gestel, Tony; Suykens, Johan; Van Dooren, Paul; De Moor, Bart) Identification of positive real models in subspace identification by using regularization. (English summary) **2004j:93126**
Gouzé, Jean-Luc *see* **Rapaport, A.**, **2004d:93018**
Grimble, Michael J. *see* **Stoica, Adrian M.**, **2004e:93037**
Guo, Rong Wei[2] *see* **Huang, De-Bin**
Gutenbaum, Jakub ★ Modelowanie matematyczne systemów. (Polish) [Mathematical modeling of systems] **2004e:93008**
Häggblom, Kurt E. *see* **Nyström, Rasmus H. et al.**, **2004c:93063**
Haruki, Shigeru *see* **Nakagiri, Shin-ichi**, **2004f:34123**
Hashtrudi Zad, Shahin (*with* Kwong, Raymond H.; Wonham, W. M.) Fault diagnosis in discrete-event systems: framework and model reduction. (English summary) **2004c:93076**
He, Qing (*with* Wang, Yao-Nan; Jiang, Yan; Tong, Tiao-Sheng) Adaptive set-membership state estimation with optimal bounding ellipsoid. (Chinese. English and Chinese summaries)
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Huang, De-Bin (*with* Guo, Rong Wei[2]) Identifying parameter by identical synchronization between different systems. (English summary)
Ito, Kazufumi *see* **Fang, Weifu**, **2004h:65113**
Janczak, Andrzej ★ Identification of Wiener and Hammerstein systems with neural network and polynomial models. **2004g:93004**
Jean, Frédéric *see* **Vendittelli, Marilena et al.**, **2004j:93003**
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Knežević-Miljanović, Julka An inverse problem for a first order nonlinear ordinary differential equation. (English and Serbo-Croatian summaries) **2004i:34020**
Kokurin, M. Yu. *see* **Bakushinskiĭ, A. B. et al.**, **2004j:35291**
Koukoulas, Panos *see* **Kalouptsidis, Nicholas et al.**, **2004d:94002**
Kouvaritakis, Basil *see* **Rossiter, J. Anthony et al.**, **2004k:93048**
Kozlov, A. I. *see* **Bakushinskiĭ, A. B. et al.**, **2004j:35291**
Kubler, Felix *see* **Chiappori, Pierre-Andre et al.**, **2004m:91160**
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Kwong, Raymond H. *see* **Hashtrudi Zad, Shahin et al.**, **2004c:93076**
Lamnabhi-Lagarrigue, Françoise *see* **Floret-Pontet, Fabienne**, **2004g:93054**
Laumond, Jean-Paul *see* **Vendittelli, Marilena et al.**, **2004j:93003**
Layer, Edward ★ Modelling of simplified dynamical systems. **2004d:93001**
Lee, S. (*with* Yen, G. G.) Analysis of Takagi-Sugeno fuzzy models in system identification for model-based control. (English summary)
Lenhart, Suzanne *see* **Avdonin, Sergei A. et al.**, **2004j:35290**
Li, Chun Wen *see* **Wu, Re Bing et al.**
Liu, Yan Hong *see* **Wu, Re Bing et al.**
Lorenzi, Alfredo *see* **Favaron, Alberto**, **2004e:45009**
Maksimov, Vyacheslav I. Method of extremal shift in problems of reconstruction of an input for parabolic variational inequalities. (English summary) **2004g:35232**
— Reconstruction of input actions through measurements of a part of coordinates. **2004k:49084**
— *see also* **Kappel, Franz**, **2004j:49057**
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Mathews, V. John *see* **Kalouptsidis, Nicholas et al.**, **2004d:94002**
Micu, Sorin (*with* Ortega, Jaime H.; de Teresa, Luz) ε-insensitizing controls for pointwise observations of the heat equation. (English summary) **2004m:93066**
Mitiche, Lahcène *see* **Adamou-Mitiche, Amel B. H. et al.**
Nakagiri, Shin-ichi (*with* Haruki, Shigeru) An identification problem for linear retarded functional differential equations. (English summary) **2004f:34123**
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Nyström, Rasmus H. (*with* Häggblom, Kurt E.; Böling, Jari M.) Derivation and selection of norm-bounded uncertainty descriptions based on multiple models. (English summary) **2004c:93063**
Ober, Raimund J. The Fisher information matrix for linear systems. (English summary) **2004h:93184**
Ogunnaike, B. A. *see* **Doyle, F. J., III et al.**, **2004c:93001**
Oriolo, Giuseppe *see* **Vendittelli, Marilena et al.**, **2004j:93003**
Orlov, Yu. V. *see* **Belkoura, L.**, **2004b:93069**
Ortega, Jaime H. *see* **Micu, Sorin et al.**, **2004m:93066**
Özdeş, A. *see* **Aksan, E. N. et al.**, **2004k:74060**
Paden, Brad *see* **Ghosh, Jayati**, **2004c:93130**
Pearce, Charles E. M. *see* **Torokhtiĭ, A. P. et al.**, **2004d:93011**
Pearson, Ronald Korin *see* **Doyle, F. J., III et al.**, **2004c:93001**
Petráš, Ivo (*with* Dorcak, Lubomir) Fractional-order control systems: modelling and simulation. (English summary)
Polemarchakis, Herakles M. *see* **Chiappori, Pierre-Andre et al.**, **2004m:91160**
Protopopescu, Vladimir *see* **Avdonin, Sergei A. et al.**, **2004j:35290**
Rapaport, A. (*with* Gouzé, Jean-Luc) Parallel topic and practical observers for non-linear uncertain systems. (English summary) **2004d:93018**
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Saprikin, S. M. The theory of linear stationary passive scattering systems with Pontryagin state spaces. (Russian. English summary) **2004g:47016**
Sasane, Amol J. *see* **Curtain, Ruth F.**, **2004i:93091**
Scherrer, Wolfgang *see* **Weiland, Siep et al.**, **2004g:93016**
Scholte, Eelco (*with* Campbell, Mark E.) A nonlinear set-membership filter for on-line applications. (English summary) **2004m:93131**
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Shcheglov, Aleksei Yur'evich A method for the approximate solution of an inverse problem for a semilinear equation of hyperbolic type. (Russian. Russian summary) **2004d:35252**
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Shieh, Jyh-Nan *see* **Chou, Jyh-Horng et al.**, **2004i:49071**
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Staroświecki, Marcel *see* **Jiang, Bin et al.**, **2004m:93133**
Stoica, Adrian M. (*with* Grimble, Michael J.) An H^∞ design method for fault detection and identification problems. (English summary) **2004e:93037**
Stoll, Norbert *see* **Kumar, Mohit et al.**
Stoll, Regina *see* **Kumar, Mohit et al.**
Sun, Jung-Hung *see* **Chou, Jyh-Horng et al.**, **2004i:49071**
Suykens, Johan *see* **Goethals, Ivan et al.**, **2004j:93126**
de Teresa, Luz *see* **Micu, Sorin et al.**, **2004m:93066**
Terlikowski, Tomasz Risk in control. On the notion of risk function. (English summary)
— Risk-type description of control variants. (English summary) **2004m:93010**
Tong, Tiao-Sheng *see* **He, Qing et al.**
Torokhtii, A. P. (*with* Howlett, Phil G.; Pearce, Charles E. M.) Method of hybrid approximations for modelling of multidimensional nonlinear systems. (English summary) **2004d:93011**
Vachkov, Gancho (*with* Fukuda, Toshio) Cause-effect relations based dynamic modeling and its application to control. (English summary)
Van Dooren, Paul *see* **Goethals, Ivan et al.**, **2004j:93126**
Van Gestel, Tony *see* **Goethals, Ivan et al.**, **2004j:93126**
Vendittelli, Marilena (*with* Oriolo, Giuseppe; Jean, Frédéric; Laumond, Jean-Paul) Non-homogeneous nilpotent approximations for nonholonomic systems with singularities. (English summary) **2004j:93003**
Vexler, Boris *see* **Becker, Roland**, **2004k:65197**
Vidyasagar, M. (*with* Karandikar, Rajeeva L.) System identification: a learning theory approach. (English summary) **2004a:93092**
Wang, Gui Zeng *see* **Ye, Hao et al.**, **2004j:93128**
Wang, Li Jun *see* **Jiang, Li-shang et al.**, **2004j:91133**
Wang, Yao-Nan *see* **He, Qing et al.**
Weiland, Siep (*with* Scherrer, Wolfgang; Deistler, Manfred) On continuity and consistency of l_∞ optimal models. (English summary) **2004g:93016**
Weng, Zheng Xin *see* **Chen, Yu Dong et al.**, **2004h:93111**
Witczak, Marcin ★ Identification and fault detection of non-linear dynamic systems. (Polish summary) **2004b:93003**
Wonham, W. M. *see* **Hashtrudi Zad, Shahin et al.**, **2004c:93076**
Wu, Re Bing (*with* Li, Chun Wen; Liu, Yan Hong) Right invertibility of nonlinear singular systems. (Chinese. English and Chinese summaries)
Ye, Hao (*with* Wang, Gui Zeng; Ding, Steven Xianchun) A new parity space approach for fault detection based on stationary wavelet transform. (English summary) **2004j:93128**
Yen, G. G. *see* **Lee, S.**
Zaika, Yu. V. Identification of a hydrogen transfer model with dynamical boundary conditions. (English summary) **2004m:35281**
Zhang, Hong Yue *see* **Song, Hua[2]**
Zhang, Jin E. *see* **Jiang, Li-shang et al.**, **2004j:91133**
Zhang, Zengke (*with* Chang, Jin) A fuzzy control algorithm with high controlling precision. (English summary)
Zurita, J. M. *see* **Carmona, Pablo et al.**

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Iterative identification and control ★ Iterative identification and control. **2004h:93003**

93B35 Sensitivity (robustness)

Abdel-Aty Zohdy, H. S. *see* **Karam, M. et al.**
Allgöwer, Frank *see* **Magni, Lalo et al.**, **2004c:93030**
Alonso, Antonio A. (*with* Fernandez, Carlos V.; Banga, Julio R.) Dissipative systems: from physics to robust nonlinear control. (English summary) **2004m:93036**
Banda, Siva *see* **Singh, Sahjendra N. et al.**, **2004g:93056**
Banga, Julio R. *see* **Alonso, Antonio A. et al.**, **2004m:93036**
Barmish, B. Ross (*with* Shcherbakov, Pavel S.) On avoiding vertexization of robustness problems: the approximate feasibility concept. (English summary) **2004c:93029**
Belmiloudi, Aziz On some robust control problems for nonlinear parabolic equations. (English summary) **2004i:93043**
— Nonlinear robust control problems of parabolic type equations with time-varying delays given in the integral form. (English summary) **2004g:93052**
Bemporad, Alberto (*with* Borrelli, Francesco; Morari, Manfred) Min-max control of constrained uncertain discrete-time linear systems. (English summary) **2004f:93039**
Biannic, Jean-Marc *see* **Ferreres, Gilles et al.**, **2004f:93040**
Bliman, Pierre-Alexandre An existence result for polynomial solutions of parameter-dependent LMIs. (English summary) **2004k:93030**
van den Boom, T. J. J. (*with* Botto, Miguel Ayala; Sá da Costa, José) Robust control of dynamical systems using neural networks with input-output feedback linearization. (English summary) **2004j:93032**
Borrelli, Francesco *see* **Bemporad, Alberto et al.**, **2004f:93039**
Botto, Miguel Ayala *see* **van den Boom, T. J. J. et al.**, **2004j:93032**
Calvez, Leon-Claude *see* **Tanguy, Noel et al.**, **2004c:93031**
Chan, Kuo-Chin *see* **Chen, Shin-Ju et al.**, **2004d:93037**
Chandler, Phil *see* **Singh, Sahjendra N. et al.**, **2004g:93056**
Chen, Shin-Ju (*with* Lin, Jong-Lick; Chan, Kuo-Chin) Minimum phase robustness for uncertain state-space systems. (English summary) **2004d:93037**
Chen, Tie Jun *see* **Yang, Jie Liang**
Chen, Zhiyong (*with* Huang, Jie[1]) Robust output regulation of singular nonlinear systems. (English summary) **2004i:93044**
Cheng, Zhao Lin *see* **Wang, Xing Ping**
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Fan, Yu Shun *see* **Zhang, Xiao Li**
Fedotov, Andrey Anatolievich *see* **Kumkov, S. I. et al.**, **2004f:93041**
Fei, Shumin *see* **Zhu, Yonghong et al.**
Feng, Chun Bo *see* **Shao, Han Yong**
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Jia, Ying Min Alternative proofs for improved LMI representations for the analysis and the design of continuous-time systems with polytopic type uncertainty: a predictive approach. (English summary) **2004g:93055**
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Morvan, Riwal *see* **Tanguy, Noel et al.**, **2004c:93031**
Nagamune, Ryozo A shaping limitation of rational sensitivity functions with a degree constraint. (English summary) **2004j:93034**
Navon, I. M. *see* **Homescu, Chris**, **2004i:93046**
Park, Ju-Hyun Robust non-fragile control for uncertain discrete-delay large-scale systems with a class of controller gain variations. (English summary) **2004j:93035**
Patsko, V. S. *see* **Kumkov, S. I. et al.**, **2004f:93041**
Peres, Pedro L. D. *see* **Leite, Valter J. S.**, **2004k:93031**
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Pyragas, K. Control of dynamical systems via time-delayed feedback and unstable controller. (English summary) **2004h:93047**

Ratto, Marco (*with* Saltelli, Andrea) An efficient approach to deal with the curse of dimensionality in sensitivity analysis computations. (English summary) (*see* **2004j:00012**)
Reshetov, V. M. *see* **Kumkov, S. I. et al., 2004f:93041**
Sá da Costa, José *see* **van den Boom, T. J. J. et al., 2004j:93032**
Saltelli, Andrea *see* **Ratto, Marco, (2004j:00012)**
Scattolini, R. *see* **Magni, Lalo et al., 2004c:93030**
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Shcherbakov, Pavel S. *see* **Barmish, B. Ross, 2004c:93029**
Shi, Peng *see* **Guan, Xin Ping et al., 2004j:93033**
Shi, Song Jiao *see* **Fan, Qi Fu**
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Suyama, Koichi Reliable control using vector-valued majority decision. (English summary) **2004h:93048**
Swedan, W. F. *see* **Ibbini, M. S.**
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Taragna, Michele *see* **Milanese, Mario, 2004a:93024**
Tesi, Alberto *see* **Chesi, G. et al., 2004g:93053**
Vicino, A. *see* **Chesi, G. et al., 2004g:93053**
Vilbé, Pierre *see* **Tanguy, Noel et al., 2004c:93031**
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Yao, Bo *see* **Wang, Fu Zhong[2] et al.**
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Zhang, Qing Ling *see* **Yang, Dong Mei et al.**
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Zhang, Xiao Li (*with* Fan, Yu Shun) Robust controller for a class of uncertain switched linear systems. (Chinese. English and Chinese summaries)
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Zhou, Dong Hua *see* **Liu, Peng[2]**
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Berg, Jordan M. *see* **Maithripala, D. H. S. et al., 2004a:93064**
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Chu, Jian *see* **Liu, Fei et al.**
Darouach, M. *see* **Boutayeb, M., 2004e:93068**
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Etien, Erik *see* **Mansouri, Abdellah et al.**
Evans, Robin J. *see* **Savkin, A. V. et al., 2004h:93190**
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Feng, Chun Bo *see* **Shao, Han Yong**
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(Gu, Da-Wei) *see* **Boutayeb, M., 2004e:93068**
Gugercin, S. (*with* Antoulas, A. C.; Zhang, Huipin) An approach to identification for robust control. (English summary) **2004d:93031**
Hagino, Kojiro *see* **Maki, Midori et al.**
Han, Chong Zhao *see* **Wang, Wen Zheng[2] et al.**
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He, Xing *see* **Cai, Yun Ze et al.**
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Ho, Daniel W. C. *see* **Lu, Guo Ping et al., 2004f:93074**
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Isidori, Alberto (*with* Marconi, Lorenzo; Serrani, Andrea) Robust nonlinear motion control of a helicopter. (English summary) **2004f:93090**
Jansen, M. J. M. *see* **Vermeulen, A. J. et al., 2004m:91017**
Jiang, Jin *see* **Mahmoud, Mufeed M. et al., 2004a:93001** *and* **Maki, Midori et al.**
Jin, Xue Xiang *see* **Zhou, Tong[1], 2004c:93123**
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Kao, Chung-Yao *see* **Jönsson, Ulf T. et al., 2004h:93041**
Khmelnitsky, Eugene *see* **Herbon, Avi et al., 2004m:93051**
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Kubiak, Tomasz *see* **Królikowski, Andrzej**
Lam, James *see* **Xu, Sheng Yuan et al., 2004b:93071**
Le Gorrec, Y. (*with* Magni, Jean-François) An LFT approach to scheduled feedback design with an application to the synthesis of a missile autopilot. (English summary)
Lennox, Barry *see* **Marjanovic, Ognjen et al., 2004h:49055**
Łęski, Jacek M. Minimum absolute error classifier design with generalization control. (English summary)
Li, Xing-Yuan *see* **Liu, Yusheng, 2004d:93125**
Lin, Chia-Yi *see* **Ho, Ming-Tzu, 2004g:93074**
Lin, Wei[2] (*with* Qian, Chunjiang) Adaptive control of nonlinearly parameterized systems: a nonsmooth feedback framework. (English summary) **2004b:93074**
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Liu, Yusheng (*with* Li, Xing-Yuan) Robust adaptive control of nonlinear systems represented by input-output models. (English summary) **2004d:93125**
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Magni, Jean-François *see* **Le Gorrec, Y.**
Mahmoud, Mufeed M. (*with* Jiang, Jin; Zhang, Youmin) ★ Active fault tolerant control systems. **2004a:93001**
Maimon, Oded *see* **Herbon, Avi et al., 2004m:93051**
Maithripala, D. H. S. (*with* Berg, Jordan M.; Dayawansa, W. P.) Loss of structurally stable regulation implies loss of stability. (English summary) **2004a:93064**
Maki, Midori (*with* Jiang, Jin; Hagino, Kojiro) A stability guaranteed active fault-tolerant control system against actuator failures. (English summary)
Mansouri, Abdellah (*with* Chenafa, Mohammed; Bouhenna, Abderrahmane; Etien, Erik) Powerful nonlinear observer associated with field-oriented control of an induction motor. (English summary)
Marconi, Lorenzo *see* **Isidori, Alberto et al., 2004f:93090**
Marjanovic, Ognjen (*with* Lennox, Barry; Goulding, Peter; Sandoz, David) Minimising conservatism in infinite-horizon LQR control. (English summary) **2004h:49055**
Megretskiĭ, A. V. *see* **Jönsson, Ulf T. et al., 2004h:93041**
Michel, Anthony N. *see* **Feng, Zhaoshu, 2004e:93070**
Micu, Sorin (*with* Ortega, Jaime H.; de Teresa, Luz) ε-insensitizing controls for pointwise observations of the heat equation. (English summary) **2004m:93066**
(Middleton, Richard H.) *see* **New developments and applications in performance limitation of feedback control**
Monsarrat, Bruno *see* **Al-Widyan, Khalid et al., (2004k:00020)**
Ortega, Jaime H. *see* **Micu, Sorin et al., 2004m:93066**
Ou, Wen *see* **Wang, Wen Zheng[2] et al.**
Pakshin, P. V. (*with* Petinskiĭ, D. M.) Robust control of nonlinear systems of random structure. (Russian. Russian summary) **2004d:93130**
Park, Ju-Hyun Robust guaranteed cost control for uncertain linear differential systems of neutral type. (English summary) **2004h:93106**
Peng, Huei[2] *see* **Chantranuwathana, Supavut**
Peres, Pedro L. D. *see* **Garcia, Germain et al., 2004h:93188**
Petinskiĭ, D. M. *see* **Pakshin, P. V., 2004d:93130**
Picó, Jesús *see* **Bondia, Jorge, 2004i:93101**
(Poon, Fu Wah) *see* **Boutayeb, M., 2004e:93068**
Potters, J. A. M. *see* **Vermeulen, A. J. et al., 2004m:91017**
Poznyak, A. S. *see* **Boltyanskii, Vladimir Grigor'evich, 2004b:49055**
Puig, Vicenç (*with* Saludes i Closa, Jordi; Quevedo, Joseba) Worst-case simulation of discrete linear time-invariant interval dynamic systems. (English summary) **2004f:65213**
Qian, Chunjiang *see* **Lin, Wei[2], 2004b:93074**
Qu, Zhihua Adaptive and robust controls of uncertain systems with nonlinear parameterization. (English summary) **2004k:93079**
Quevedo, Joseba *see* **Puig, Vicenç et al., 2004f:65213**
Ran, André C. M. (*with* Rodman, Leiba) A class of robustness problems in matrix analysis. (English summary) **2004k:15014**
Richard, Jean-Pierre *see* **Gouaisbaut, F. et al., 2004k:93021**
Rodman, Leiba *see* **Ran, André C. M., 2004k:15014**
Runggaldier, Wolfgang J. *see* **Favero, Gino, 2004h:93179**
Saludes i Closa, Jordi *see* **Puig, Vicenç et al., 2004f:65213**
Sandoz, David *see* **Marjanovic, Ognjen et al., 2004h:49055**
Savkin, A. V. (*with* Evans, Robin J.; Skafidas, Efstratios) The problem of optimal robust sensor scheduling. (English summary) **2004h:93190**
Schneider, Martin *see* **Epstein, Larry G., 2004h:91092** *and* **2004i:91161**
Serrani, Andrea *see* **Isidori, Alberto et al., 2004f:93090**
Shao, Han Yong (*with* Feng, Chun Bo) Robustness analysis and output feedback control for strictly positive real linear MIMO systems. (Chinese. English and Chinese summaries)
Shi, Peng *see* **Lin, Zhiyun, 2004k:93081**
Skafidas, Efstratios *see* **Savkin, A. V. et al., 2004h:93190**
Su, Hong Ye *see* **Liu, Fei et al.**
Suchomski, Piotr Robust pole placement in delta domain for SISO plants. (English summary) **2004e:93044**
Tarbouriech, Sophie *see* **Garcia, Germain et al., 2004h:93188**
(Tayebi, A.) *see* **Doh, Tae-Yong**
de Teresa, Luz *see* **Micu, Sorin et al., 2004m:93066**
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Van den Hof, Paul M. J. (*with* de Callafon, Raymond A.) Control-relevant identification and servo design for a compact disc player. (English summary) (*see* **2004h:93003**)
Vanini, Paolo *see* **Trojani, Fabio, 2004j:91156**
Vermeulen, A. J. (*with* Jansen, M. J. M.; Potters, J. A. M.) Making solutions invariant. (English summary) **2004m:91017**
Verriest, Erik I. *see* **Xu, Sheng Yuan et al., 2004b:93071**
Wang, Chang Hong[1] *see* **Gao, Hui Jun**
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Wang, Wen Zheng[2] (*with* He, Kai Feng; Ou, Wen; Han, Chong Zhao) Robust identification for nonlinear system based on Volterra series. (Chinese. English and Chinese summaries)
Wu, Hansheng Decentralized adaptive robust control for a class of large scale systems with uncertainties in the interconnections. (English summary) **2004d:93009**
Xie, Xiang Sheng *see* **Hu, Gang[2]**
Xu, Sheng Yuan (*with* Lam, James; Yang, Cheng Wu; Verriest, Erik I.) An LMI approach to guaranteed cost control for uncertain linear neutral delay systems. (English summary) **2004b:93071**
Xu, Xiao Ming *see* **Cai, Yun Ze et al.**
Yang, Cheng Wu *see* **Xu, Sheng Yuan et al., 2004b:93071**
Yang, Shih-Feng *see* **Hwang, Chyi**
Yang, Wu *see* **Chen, Falai, 2004m:65013**
Yeung, L. F. *see* **Lu, Guo Ping et al., 2004f:93074**
(Zaremba, M. B.) *see* **Doh, Tae-Yong**
Zeheb, Ezra *see* **Dolgin, Yuri, 2004f:93026**
Zhang, Huipin *see* **Gugercin, S. et al., 2004d:93031**
Zhang, Wei Dong *see* **Cai, Yun Ze et al.**
Zhang, Wei Hai Robust H_∞ filtering of stochastic uncertain systems. (English and Chinese summaries)
Zhang, Youmin *see* **Mahmoud, Mufeed M. et al., 2004a:93001**
Zhao, Qing[3] *see* **Cheng, Chuwang**
Zhou, Kemin *see* **Chen, Xinjia, 2004b:93101**
Zhou, Tong[1] (*with* Jin, Xue Xiang) Closed-loop identification and validation of normalized coprime factor perturbed model sets. (Chinese. English and Chinese summaries) **2004c:93123**

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Mahmoud, Mufeed M. et al., 2004a:93001**
New developments and applications in performance limitation of feedback control ★ New developments and applications in performance limitation of feedback control.

93B36 H^∞-control

Ades, R. (*with* da Silveira, Marcos Azevedo) Mixed H^2/H^∞ problems: approximated solutions by Galerkin methods. (English summary) **2004c:93033**
Agamennoni, Osvaldo E. *see* **Biagiola, S. I. et al.**
Akin, Murat (*with* Gören, Leyla) The $\mathscr{H}_\infty$ discrete model matching problem by static state feedback. (English summary)
Amishima, Takeshi *see* **Sznaier, Mario et al., 2004b:93045**
Anderson, Brian D. O. (*with* Bombois, Xavier) Analysis of weight change in H_∞ control design. (English summary) **2004a:93025**
Apkarian, Pierre (*with* Noll, Dominikus; Hoang Duong Tuan) Fixed-order H_∞ control design via a partially augmented Lagrangian method. (English summary) **2004g:93058**
Araki, Mituhiko *see* **Zhou, Jun[2] et al., 2004a:93028**
Assawinchaichote, Wudhichai *see* **Nguang, Sing Kiong**
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Boyarski, S. *see* **Yaesh, I. et al., 2004h:93058**
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Er, Meng Joo *see* **Shen, Liang et al., (2004h:93004)**
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Geromel, J. C. *see* **De Farias, D. P. et al.**
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Inanc, Tamer *see* **Sznaier, Mario et al., 2004b:93045**
Ioannou, Petros A. *see* **Xu, Haojian, 2004d:93046**
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Kojima, Akira *see* **Uchida, Kenko et al., 2004f:93046**
Köse, İ. Emre IQC-based $\mathscr{L}_2$-control of linear periodic systems. (English summary) **2004g:93061**
Kučera, Vladimír *see* **Fernández-Anaya, G. et al., 2004b:93042**
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Kwon, Ohmin *see* **Park, Ju-Hyun et al., 2004j:93039**
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Martínez-García, J. C. *see* **Fernández-Anaya, G. et al., 2004b:93042**
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Palhares, Reinaldo M. *see* **Takahashi, Ricardo H. C. et al., 2004k:93035**
Palmor, Zalman J. *see* **Mirkin, Leonid et al., 2004h:93053**
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Qiao, Hong *see* **Wang, Zidong, 2004j:93042**
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Scorletti, Gérard *see* **Fromion, Vincent, 2004e:93036**
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Sengupta, Raja *see* **Seiler, Peter, 2004g:93066**
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Shi, Song Jiao *see* **Chen, Yu Dong et al., 2004e:93035**
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Williams, Frederic W. *see* **Zhong, Wan Xie et al.**
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Zou, Yun *see* **Xu, Sheng Yuan et al., 2004k:93036** *and* **Sun, Min Hui et al.**
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Items with secondary classifications in 93B36

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Evans, Robin J. *see* **Savkin, A. V., 2004i:93004** *and* **Halpern, M. E.**
Feng, Gang[1] *see* **Ma, Jian[1], 2004d:93077**
Ferrante, Augusto *see* **Colaneri, Patrizio, 2004m:93127**
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Han, Jiang Hong *see* **Lu, Zhao Quan et al., 2004d:93097**
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Hassibi, Babak (*with* Kaliath, Thomas) H^∞ bounds for least-squares estimators. (English summary) **2004f:93127**
Ho, Daniel W. C. *see* **Lu, Guo Ping, 2004h:93092**
Hu, Lisheng *see* **Cao, Yong-Yan et al., 2004j:93130**
Hu, Shou Song *see* **Liu, Ya**
Huang, Biao *see* **Zhang, Li Qian[2] et al., 2004h:93180** *and* **Wang, Zidong et al.**
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Iannelli, Luigi (*with* Johansson, Karl Henrik; Jönsson, Ulf T.; Vasca, Francesco) Dither for smoothing relay feedback systems. (English summary) **2004k:93052**
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Lepschy, Antonio *see* **Blanchini, Franco et al., 2004m:93045**
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Liu, Yan Hong *see* **Wang, Yuzhen et al.**
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Malan, Stefano A. (*with* Milanese, Mario; Regruto, D.; Taragna, Michele) Robust control from data via uncertainty model sets identification. (English summary)
Meinsma, Gjerrit *see* **Iwasaki, Tetsuya et al.**
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Nguang, Sing Kiong *see* **Shi, Peng et al., 2004b:93125**
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Pakshin, P. V. Robust high moment stabilizing control for stochastic systems with jumps. **2004c:93102**
Palmor, Zalman J. *see* **Mirkin, Leonid, 2004h:93116**
Paoletti, Simone (*with* Grasselli, Osvaldo Maria; Menini, Laura) A comparison between classical robust stability conditions. (English summary) **2004j:93097**
Postlethwaite, Ian *see* **Prempain, E.**
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Rao, Ming *see* **Liu, Xiao Dong[1] et al.**
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Regruto, D. *see* **Malan, Stefano A. et al.**
Sadhukhan, Debashis *see* **Collins, Emmanuel G., Jr.**
Saeki, Masami On the pole location of a system designed by robust stability-degree assignment. (English summary) **2004h:93145**
Savkin, A. V. (*with* Evans, Robin J.) ★ Hybrid dynamical systems. **2004i:93004**
Schmid, Robert (*with* Zhang, Cishen) Performance limitations of nonlinear periodic sampled-data controllers for L_p disturbance rejection. (English summary) **2004g:93098**
Shah, Sirish L. *see* **Sheng, Jie et al.**
Shaked, Uri An LPD approach to robust H_2 and H_∞ static output-feedback design. (English summary) **2004c:93044**
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de Souza, Carlos E. (*with* Fragoso, Marcelo D.) $\mathscr{H}_\infty$ filtering for discrete-time linear systems with Markovian jumping parameters. (English summary) **2004i:93187**
Staroświecki, Marcel *see* **Jiang, Bin et al.**
Takács, Tibor *see* **Gyurkovics, Éva, 2004j:93115**
Tan, Kan (*with* Grigoriadis, Karolos M.) Stabilization and H^∞ control of symmetric systems: an explicit solution. (English summary) **2004g:93131**
Taragna, Michele *see* **Milanese, Mario, 2004a:93024** *and* **Malan, Stefano A. et al.**
Tsiotras, Panagiotis *see* **Zhang, Jianrong et al., 2004g:93088**
Unbehauen, H. *see* **Wang, Zidong et al.**
Valtolina, E. (*with* Astolfi, Alessandro) Local robust regulation of chained systems. (English summary)
Vasca, Francesco *see* **Iannelli, Luigi et al., 2004k:93052**
Viaro, Umberto *see* **Blanchini, Franco et al., 2004m:93045**
Voulgaris, Petros G. Optimal control of systems with delayed observation sharing patterns via input-output methods. (English summary) **2004i:93006**
Wang, Chang Hong[1] *see* **Gao, Hui Jun** *and* **Wang, Jun Ling[2] et al.**
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Zhang, Qing Ling *see* **Liu, Xiao Dong¹ et al.**

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Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Choi, Youngjin, 2004m:93004**

93B40 Computational methods

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Bamieh, Bassam (*with* Dahleh, Mohammed) Exact computation of traces and $\mathscr{H}^2$ norms for a class of infinite-dimensional problems. (English summary) **2004b:93046**

Barkovsky, A. *see* **Goncharov, V. I. et al.**

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Cannon, Mark *see* **Bacic, Marko et al., 2004d:93048; 2004h:93059** *and* **Kouvaritakis, Basil et al.**

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Chen, Chia Wei *see* **Tsai, Jason Sheng-Hong et al., 2004i:93055**

Chen, Jie¹ *see* **Zhang, Juan⁴**

Chu, Chia Chi *see* **Wang, Janet Meiling et al., 2004a:93030**

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Dahleh, Mohammed *see* **Bamieh, Bassam, 2004b:93046**

Daoutidis, Prodromos *see* **Varigonda, Subbarao et al., 2004j:93044**

Das, I. (*with* Potra, Florian A.) Subsequent convergence of iterative methods with applications to real-time model-predictive control. (English summary) **2004h:93060**

Datsko, O. *see* **Goncharov, V. I. et al.**

Datta, Karabi *see* **Carvalho, João et al., 2004i:93054**

Desages, Alfredo C. *see* **Figueroa, José L., 2004b:93048**

Dhingra, A. K. *see* **Butler, S. L.**

Dua, Vivek *see* **Sakizlis, V. et al., (2004h:00015)**

Elnagar, Gamal N. (*with* Li, Shikang) A cell averaging Chebyshev method for the controlled Duffing oscillator. (English summary) **2004f:93048**

Feldmann, Sven (*with* Lang, Patrick Karl; Prätzel-Wolters, Dieter) Parameter influence on the zeros of network determinants. (English summary) **2004h:93061**

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Filippi, Carlo *see* **Bemporad, Alberto, 2004b:93047**

Garay, M. Zegarra *see* **Rincon, M. A. et al.**

Georgiou, Tryphon T. *see* **Varigonda, Subbarao et al., 2004j:93044**

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Karas, A. *see* **Kouvaritakis, Basil et al.**

Kaya, M. Alpay *see* **Jarvis-Wloszek, Zachary et al., 2004j:93043**

Kloeden, Peter E. *see* **Grüne, Lars, (2004j:65007)**

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Kuh, Ernest S. *see* **Wang, Janet Meiling et al., 2004a:93030**

Lainiotis, D. G. *see* **Assimakis, N. D. et al.**

Lang, Patrick Karl *see* **Feldmann, Sven et al., 2004h:93061**

Ławryńczuk, Maciej (*with* Tatjewski, Piotr) Multivariable CRHPC (constrained receding-horizon predictive control) algorithm with improved numerical properties. (English summary) **2004h:93062**

Lee, Chien-Hua Solution bounds of the continuous Riccati matrix equation. (English summary) **2004g:93068**

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Lee, Tong Heng *see* **Zheng, Feng et al., 2004h:93063**

Lee, Young Il *see* **Bacic, Marko et al., 2004d:93048**

Lee, Zong-Yi *see* **Chang, Cheng-Long**

Li, Changjun¹ *see* **Shao, Xin Hui et al.**

Li, Jim Shone *see* **Tsai, Jason Sheng-Hong et al., 2004i:93055**

Li, Shikang *see* **Elnagar, Gamal N., 2004f:93048**

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Lozovanu, Dmitrii *see* **Iusiumbeli, Anatolii, 2004a:93029**

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Ng, Michael K. *see* **Lu, Lin Zhang, 2004m:93044**

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Perkins, J. D. *see* **Sakizlis, V. et al., (2004h:00015)**

Petkov, Petko Khr. *see* **Konstantinov, Mikhail M., 2004d:93051**

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Potra, Florian A. *see* **Das, I., 2004h:93060**

Prätzel-Wolters, Dieter *see* **Feldmann, Sven et al., 2004h:93061**

Quintana-Ortí, Enrique S. *see* **Benner, Peter et al., 2004k:93038**

Quintana-Ortí, Gregorio *see* **Benner, Peter et al., 2004k:93038**

Raković, S. *see* **Mayne, D. Q., 2004c:93039**

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Shieh, Leang-San *see* **Tsai, Jason Sheng-Hong et al., 2004i:93055**
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Wang, Qing-Guo *see* **Zheng, Feng et al., 2004h:93063**
Willson, Alan N., Jr. *see* **Orchard, H. J., 2004d:93053**
Wimmer, Harald K. *see* **Ito, Naoharu et al., 2004d:93050**
Wu, Zhao Jing *see* **Xie, Xue Jun et al.**
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Xie, Xue Jun (*with* Wu, Zhao Jing; Zhang, Si Ying) Direct model reference adaptive backstepping controller with unnormalized adaptive laws. (Chinese. English and Chinese summaries)
Yu, Qingjian *see* **Wang, Janet Meiling et al., 2004a:93030**
Zelenyak, D. M. *see* **Borukhov, V. T.**
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Barmish, B. Ross (*with* Shcherbakov, Pavel S.) On avoiding vertexization of robustness problems: the approximate feasibility concept. (English summary) **2004c:93029**
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Bi, Wei Ping *see* **Mu, Xiao Wu et al.**
Biannic, Jean-Marc *see* **Ferreres, Gilles et al., 2004f:93040**
Biegler, Lorenz T. (*with* Wächter, Andreas) SQP SAND strategies that link to existing modeling systems. (English summary) **2004m:90226**
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Boyd, John E. *see* **Sworder, David D. et al., 2004e:93094**
Bublik, S. B. (*with* Kirichenko, N. F.) Optimal perturbations of pseudo-inverse and projection matrices in problems of the synthesis of linear systems. (Russian. English, Russian and Ukrainian summaries) **2004j:49053**
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Camba-Mendez, Gonzalo (*with* Kapetanios, George) Bootstrap statistical tests of rank determination for system identification. (English summary) **2004j:93125**
Carpanese, Nevio On the geometry of symplectic pencils arising from discrete-time matrix equations. (English summary) **2004j:93061**
Chen, Guanrong *see* **Yu, Xinghuo, 2004f:93025**
Chen, Han-Fu ★ Stochastic approximation and its applications. (English summary) **2004f:62005**
— (*with* Yin, Gang George) Asymptotic properties of sign algorithms for adaptive filtering. (English summary) **2004k:93133**
Chen, Wen-Hua (*with* Hu, Xiao-Bing) Model predictive control of linear systems with nonlinear terminal control. (English summary)
Chen, Yao *see* **Luo, Xiao et al.**
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Colombo, P. *see* **Aurora, C. et al.**
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Cullum, Jane K. (*with* Zhang, Tong[2]) Two-sided Arnoldi and nonsymmetric Lanczos algorithms. (English summary) **2004b:93026**
Damm, Tobias (*with* Hinrichsen, Diederich) Newton's method for concave operators with resolvent positive derivatives in ordered Banach spaces. (English summary) **2004b:65076**
Daripa, Prabir *see* **Badea, Lori, 2004e:65146**
Dion, Jean-Michel *see* **Commault, Christian et al., 2004a:93038**
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Ferrante, Augusto (*with* Pandolfi, Luciano) On the solvability of the positive real lemma equations. (English summary) **2004f:93060**
Ferreres, Gilles (*with* Magni, Jean-François; Biannic, Jean-Marc) Robustness analysis of flexible structures: practical algorithms. (English summary) **2004f:93040**
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Gallivan, Kyle A. (*with* Vandendorpe, A.; Van Dooren, Paul) Model reduction via truncation: an interpolation point of view. (English summary) **2004f:93021**
Garulli, A. *see* **Chesi, G. et al., 2004j:65065**
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Gosiewski, Zdzisław (*with* Paszowski, Marek) Identification of physical parameters of unstable systems: theoretical background. (English summary)
Grasedyck, Lars (*with* Hackbusch, Wolfgang; Khoromskiĭ, B. N.) Solution of large scale algebraic matrix Riccati equations by use of hierarchical matrices. (English summary) **2004f:65056**
Gu, Da-Wei *see* **Konstantinov, Mikhail M. et al., 2004g:15019**
Gugercin, S. (*with* Sorensen, Danny C.; Antoulas, A. C.) A modified low-rank Smith method for large-scale Lyapunov equations. (English summary) **2004a:93060**
Gunzburger, Max D. *see* **Ju, Lili et al., 2004k:65140**
Hackbusch, Wolfgang *see* **Grasedyck, Lars et al., 2004f:65056**
Hagiwara, Tomomichi Spectral analysis and singular value computations of the noncompact frequency response and compression operators in sampled-data systems. (English summary) **2004c:93027**
Henrion, Didier (*with* Šebek, Michael; Kučera, Vladimír) Positive polynomials and robust stabilization with fixed-order controllers. (English summary) **2004a:93085**
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Hernández, Vicente G. *see* **Benner, Peter et al., 2004h:93155**
Hinrichsen, Diederich *see* **Damm, Tobias, 2004b:65076**
Homescu, Chris (*with* Navon, I. M.) Numerical and theoretical considerations for sensitivity calculation of discontinuous flow. (English summary) **2004i:93046**
Hou, LiSheng *see* **Ju, Lili et al., 2004k:65140**
Hu, Tingshu (*with* Lin, Zongli) On the tightness of a recent set invariance condition under actuator saturation. (English summary) **2004h:93042**
Hu, Xiao-Bing *see* **Chen, Wen-Hua**
Huang, Lin[1] *see* **Yang, Ying[1]; Wang, Jin Zhi** *and* **Fu, Rao et al.**
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Hwang, Chyi *see* **Yang, Shih-Feng, 2004a:93066**
Inooka, Hikaru *see* **Ono, Takahiko et al., 2004g:93075**
Ishihara, Tadashi *see* **Ono, Takahiko et al., 2004g:93075**
Iwata, Satoru Computing the maximum degree of minors in matrix pencils via combinatorial relaxation. (English summary) **2004e:15013**
Jiang, Pei Gang[2] *see* **Long, Tu Jing et al.**
Jing, Xin (*with* Zhang, Qing Ling) Design of positive real state feedback control for continuous-time descriptor systems based on LMI. (Chinese. English and Chinese summaries)
Johansson, Mikael ★ Piecewise linear control systems. **2004d:93002**
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Kaczorek, Tadeusz The relationship between the infinite eigenvalue assignment for singular systems and the solvability of polynomial matrix equations. (English summary) **2004c:93049**

Kantor, George A. (*with* Krishnaprasad, P. S.) An application of Lie groups in distributed control networks. (English summary) **2004k:93024**
Kapetanios, George *see* **Camba-Mendez, Gonzalo, 2004j:93125**
Kazantzis, Nikolaos *see* **Kravaris, Costas et al., 2004k:93063**
Khoromskiĭ, B. N. *see* **Grasedyck, Lars et al., 2004f:65056**
Kirichenko, N. F. (*with* Lepekha, N. P.) Application of pseudo-inverse and projective matrices to the investigation of control, observation, and identification problems. (Russian. English and Ukrainian summaries) **2004f:93036**
— *see also* **Bublik, S. B., 2004j:49053**
Kogan, Mark M. *see* **Balandin, D. V., 2004k:93032**
Konstantinov, Mikhail M. (*with* Gu, Da-Wei; Mehrmann, Volker; Petkov, Petko Khr.) ★ Perturbation theory for matrix equations. **2004g:15019**
Köse, İ. Emre IQC-based $\mathscr{L}_2$-control of linear periodic systems. (English summary) **2004g:93061**
Kostikova, O. R. *see* **Potapov, M. M., 2004m:49087**
Kravaris, Costas (*with* Niemiec, Michael; Kazantzis, Nikolaos) Singular PDEs and the assignment of zero dynamics in nonlinear systems. (English summary) **2004k:93063**
Krishnaprasad, P. S. *see* **Kantor, George A., 2004k:93024**
Krstić, Miroslav *see* **Ariyur, Kartik B., 2004h:93001**
Kučera, Vladimír *see* **Henrion, Didier et al., 2004a:93085**
Kunisch, Karl Some suboptimal strategies for numerical realization of large-scale optimal control problems. (English summary) **2004j:49051**
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— Algorithm of J-factorization of rational matrices with zeros and poles on the imaginary axis. (English summary) **2004h:93083**
László, Ákos On the bounded real lemma. (English summary) **2004i:93137**
Le Bris, Claude (*with* Maday, Yvon; Turinici, Gabriel) Towards efficient numerical approaches for quantum control. (English summary) **2004m:93093**
Lee, Hungu *see* **Hur, Jong et al.**
Lee, Jaewook An optimization-driven framework for the computation of the controlling UEP in transient stability analysis. (English summary) **2004i:90134**
Leondes, Cornelius T. *see* **Sworder, David D. et al., 2004e:93094**
Lepekha, N. P. *see* **Kirichenko, N. F., 2004f:93036**
Levkovizh, Avraham *see* **Cohen, Nir et al., 2004a:93053**
Li, Chun Wen *see* **Long, Tu Jing et al.**
Li, Ning[4] (*with* Li, Shao Yuan[2]; Xi, Yu Geng) Multiple model predictive control for MIMO systems. (English and Chinese summaries)
Li, Shao Yuan[2] *see* **Li, Ning**[4] **et al.**
Lin, Lan *see* **Mu, Xiao Wu et al.**
Lin, Zongli *see* **Hu, Tingshu, 2004h:93042**
Lindquist, Anders *see* **Blomqvist, Anders et al., 2004i:93047**
Liu, Bin[8] (*with* Xi, Yu Geng) An aggregation based robust model predictive controller. (English and Chinese summaries)
Ljung, Lennart Linear system identification as curve fitting. (English summary) **2004h:93043**
Long, Tu Jing (*with* Sun, Zheng Shun; Li, Chun Wen; Jiang, Pei Gang[2]) Optimal experiment design for wavelet-based MIMO system identification. (Chinese. English and Chinese summaries)
Longman, Richard W. *see* **Avrachenkov, Konstantin E.**
Luo, Xiao (*with* Chen, Yao; Sun, You Xian) Time-varying nonlinear system identification based on a wavelet packet. (Chinese. English and Chinese summaries)
Maday, Yvon *see* **Le Bris, Claude et al., 2004m:93093**
Magni, Jean-François *see* **Ferreres, Gilles et al., 2004f:93040**
Magni, Lalo *see* **Aurora, C. et al.**
Makino, Kyoko *see* **Berz, Martin, (2004h:93004)**
Marino, Riccardo (*with* Tomei, Patrizio) Output regulation for linear systems via adaptive internal model. (English summary) **2004i:93173**
Martínez Pastor, A. *see* **Benner, Peter et al., 2004h:93155**
Mazzaro, María Cecilia *see* **Sznaier, Mario, 2004k:93029**
Megretskiĭ, A. V. Optimal model order reduction for maximal real part norms. (English summary) **2004h:93034**
Mehrmann, Volker *see* **Konstantinov, Mikhail M. et al., 2004g:15019**
Meinsma, Gjerrit *see* **Prajna, Stephen et al., 2004h:93166**
Mesbahi, Mehran Robustness analysis via the running time of the interior point methods. (English summary) **2004k:90164**
Morari, Manfred *see* **Bemporad, Alberto et al., 2004f:93039**
Morozan, Toader *see* **Dragan, Vasile et al., 2004e:93100**
Mu, Xiao Wu (*with* Bi, Wei Ping; Lin, Lan) Robust adaptive H_∞ control with almost disturbance decoupling for uncertain nonlinear systems. (Chinese. English and Chinese summaries)
Mukaidani, Hiroaki An LMI approach to guaranteed cost control for uncertain delay systems. (English summary) **2004g:93087**
— (*with* Shimomura, Tetsu; Xu, Hua) Numerical computation of cross-coupled algebraic Riccati equations related to H_2/H_∞ control problem for singularly perturbed systems. (English summary) **2004m:93038**
Nagamune, Ryozo *see* **Blomqvist, Anders et al., 2004i:93047**
Nagy, Péter T. (*with* Puta, Mircea) Drift Lee-free left invariant control systems on $SL(2,\mathbb{R})$ with fewer controls than state variables. (English summary) [Drift Lie-free left invariant control systems on $SL(2\mathbb{R})$ with fewer controls than state variables]
Nakamori, Seiichi New design of fixed-interval smoother using covariance information in linear stochastic continuous-time systems. (English summary) **2004e:93092**
Navon, I. M. *see* **Homescu, Chris, 2004i:93046**
Negreanu, Mihaela (*with* Zuazua, Enrique) Convergence of a multigrid method for the controllability of a 1-d wave equation. (English and French summaries)
Niemiec, Michael *see* **Kravaris, Costas et al., 2004k:93063**
Nikol′skiĭ, M. S. On the approximate computation of the geometric difference of sets. (Russian. Russian summary) **2004g:49032**
Ogunnaike, B. A. *see* **Doyle, F. J., III et al., 2004c:93001**
de Oliveira, Paulo *see* **Cohen, Nir et al., 2004a:93053**
Ono, Takahiko (*with* Ishihara, Tadashi; Inooka, Hikaru) An LMI-based approach to critical control system design for rate-limited exogenous inputs. (English summary) **2004g:93075**
Pandolfi, Luciano *see* **Ferrante, Augusto, 2004f:93060**
Pannocchia, Gabriele (*with* Wright, Stephen Joseph; Rawlings, James B.) Existence and computation of infinite horizon model predictive control with active steady-state input constraints. (English summary) **2004d:49052**
Park, Chang-Woo LMI-based robust stability analysis for fuzzy feedback linearization regulators with its applications. (English summary) **2004d:93099**
Paszowski, Marek *see* **Gosiewski, Zdzisław**
Pearson, Ronald Korin *see* **Doyle, F. J., III et al., 2004c:93001**
Peaucelle, Dimitri *see* **Henrion, Didier et al., 2004i:93135**
Peeters, Ralf (*with* Rapisarda, Paolo) A two-variable approach to solve the polynomial Lyapunov equation. (English summary) **2004f:15029**
Pellegrino, Felice Andrea *see* **Blanchini, Franco, 2004k:49075**
Petkov, Petko Khr. *see* **Konstantinov, Mikhail M. et al., 2004g:15019**
Phooi, Seng Kah Discrete sliding-mode adaptive algorithm for adaptive filtering. (English summary) (*see* **2004h:00019**)
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Popescu-Bodorin, N. Implicit moments matching through Krylov subspaces projections methods. Arnoldi methods. (English and Romanian summaries) **2004m:65084**
Potapov, M. M. (*with* Kostikova, O. R.) Difference approximation of control and observation problems for a fourth-order vibration equation. (Russian. Russian summary) **2004m:49087**
Prajna, Stephen (*with* van der Schaft, A. J.; Meinsma, Gjerrit) An LMI approach to stabilization of linear port-controlled Hamiltonian systems. (English summary) **2004h:93166**
Pretolani, F. *see* **Aurora, C. et al.**
Prokhorov, Danil V. *see* **Tyukin, Ivan Yu. et al., 2004d:93076**
Puta, Mircea *see* **Nagy, Péter T.**
Quintana-Ortí, Enrique S. *see* **Benner, Peter et al., 2004h:93033**
Quintana-Ortí, Gregorio *see* **Benner, Peter et al., 2004h:93033**
Ramos, Angel Manuel Numerical methods for Nash equilibria in multiobjective control of partial differential equations. (English summary) (*see* **2004d:49002**)
Rapisarda, Paolo *see* **Peeters, Ralf, 2004f:15029**
Ratto, Marco (*with* Saltelli, Andrea) An efficient approach to deal with the curse of dimensionality in sensitivity analysis computations. (English summary) (*see* **2004j:00012**)
Rawlings, James B. *see* **Pannocchia, Gabriele et al., 2004d:49052**
Reichel, Lothar *see* **Calvetti, Daniela, 2004f:93058**
Röbenack, Klaus Automatic differentiation for nonlinear controller design. (English summary) (*see* **2004j:00013**)
— Computation of the observer gain for extended Luenberger observers using automatic differentiation. (English summary) **2004k:93015**
Rossignol, L. (*with* Scorletti, Gérard; Fromion, Vincent) Filter design: a finite dimensional convex optimization approach. (English summary) **2004k:93135**
(Sala, Antonio) *see* **Iterative identification and control, 2004h:93003**
Saltelli, Andrea *see* **Ratto, Marco, (2004j:00012)**
Scattolini, R. *see* **Aurora, C. et al.**
van der Schaft, A. J. *see* **Prajna, Stephen et al., 2004h:93166**
Scorletti, Gérard *see* **Rossignol, L. et al., 2004k:93135**
Šebek, Michael *see* **Henrion, Didier et al., 2004a:93085** *and* **2004i:93135**
Shcherbakov, Pavel S. *see* **Barmish, B. Ross, 2004c:93029**
Shimomura, Tetsu *see* **Mukaidani, Hiroaki et al., 2004m:93038**
da Silveira, Marcos Azevedo *see* **Ades, R., 2004c:93033**
Söderlind, Gustaf Digital filters in adaptive time-stepping. (English summary) **2004h:93117**
Sorensen, Danny C. *see* **Gugercin, S. et al., 2004a:93060**
Starkov, Konstantin E. Observability conditions of linear time-varying systems and its computational complexity aspects. (English summary) **2004b:93021**
Stoica, Adrian M. *see* **Dragan, Vasile et al., 2004e:93100**
Sun, Jian-Qiao *see* **Elbeyli, Ozer**
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Sun, Zheng Shun *see* **Long, Tu Jing et al.**
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Terekhov, Valery A. *see* **Tyukin, Ivan Yu. et al., 2004d:93076**
Tesi, Alberto *see* **Chesi, G. et al., 2004j:65065**
Thome, Néstor *see* **Coll, Carmen, (2004h:00015)**
Tomei, Patrizio *see* **Marino, Riccardo, 2004i:93173**
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Van Dooren, Paul *see* **Gallivan, Kyle A. et al., 2004f:93021**
Varga, András Computation of transfer function matrices of periodic systems. (English summary) **2004j:93079**
Vicino, A. *see* **Chesi, G. et al., 2004j:65065**
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Zhang, Qing Ling *see* **Jing, Xin**
Zhang, Tong[2] *see* **Cullum, Jane K., 2004b:93026**
Zuazua, Enrique *see* **Negreanu, Mihaela**

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93B50 Synthesis problems

Ayadi, Mounir *see* **Rotella, Frédéric et al., 2004a:93031**
Bachelier, O. *see* **Mehdi, D. et al., 2004k:93042**
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Lozgachev, G. I. *see* **Dylevskiĭ, A. V., 2004f:93052**
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Nagurka, Mark *see* **Yaniv, Oded, 2004h:93067**
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Paszke, Wojciech *see* **Gałkowski, Krzysztof et al., 2004i:93056**
Postlethwaite, Ian *see* **Turner, Matthew C., 2004j:93049**
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Prajna, Stephen (*with* Parrilo, Pablo A.; Rantzer, Anders) Nonlinear control synthesis by convex optimization. (English summary) **2004j:93048**
Prandini, Maria *see* **Campi, M. C., 2004j:93046**
Rantzer, Anders *see* **Prajna, Stephen et al., 2004j:93048**
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Rogers, Eric *see* **Gałkowski, Krzysztof et al., 2004i:93056**
Rotella, Frédéric (*with* Carrillo, Francisco Javier; Ayadi, Mounir) Polynomial controller design based on flatness. (English summary) **2004a:93031**
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Sadhukhan, Debashis *see* **Collins, Emmanuel G., Jr.**
Sannuti, Peddapullaiah *see* **Saberi, Ali et al., 2004b:93052**
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Sirotin, A. N. On conditions for the solvability of a class of problems of the control of scalar discrete systems with additive random perturbations. (Russian. Russian summary) **2004k:93043**
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Soroush, Masoud[1] *see* **Valluri, Sairam, 2004c:93041**
Spurgeon, Sarah K. *see* **Cheng, Dai Zhan et al., 2004f:93051**
Stoorvogel, Anton A. *see* **Saberi, Ali et al., 2004b:93052**
Sulikowski, Bartek *see* **Gałkowski, Krzysztof et al., 2004i:93056**
Sung, M. C. *see* **Park, Hung Mok, 2004f:93054**
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Xu, Ke Kang *see* **Song, Jin Lai**
Xu, Sheng Yuan *see* **Gałkowski, Krzysztof et al., 2004i:93056**
Xu, Tian Qun *see* **Chen, Yue Peng et al.**
Yamauchi, Hirokazu *see* **Iwasaki, Tetsuya et al., 2004i:93057**
Yan, Jun-Juh *see* **Yau, Her-Terng**
Yang, Chun Hua[1] (*with* Deconinck, Geert; Gui, Wei Hua) Fault-tolerant scheduling for real-time embedded control systems. (English summary)
Yaniv, Oded (*with* Nagurka, Mark) Robust PI controller design satisfying sensitivity and uncertainty specifications. (English summary) **2004h:93067**
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Corless, Martin *see* **Açikmeşe, Ahmet Behçet, 2004g:93137**

Davison, Edward J. *see* **Chang, Michael H., 2004i:93110**

De Schutter, Bart *see* **Bemporad, Alberto et al., 2004d:93080**

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Lam, James *see* **Yan, Xing-Gang et al., 2004c:93021**

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Piccoli, Benedetto *see* **Marigo, Alessia, 2004k:49083**

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Skoryk, Vasyl O. *see* **Korobov, V. I., 2004f:49068**

Spathopoulos, Michael P. *see* **Trontis, Anastasios, 2004i:93119**

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93B51 Design techniques (robust design, computer-aided design, etc.)

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Aldeen, M. *see* **Hernandez, C. Navarro et al., 2004h:93071** *and* **Errata: "Observer design for nonlinear systems using linear approximations"**
de Andres-Toro, Bonifacio *see* **De la Cruz, Jesus M. et al.**
Annaswamy, Anuradha M. *see* **Niculescu, Silviu-Iulian, 2004h:93074**
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Astolfi, Alessandro *see* **Ortega, Romeo et al., 2004h:93075**
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Banks, S. P. *see* **Hernandez, C. Navarro et al., 2004h:93071** *and* **Errata: "Observer design for nonlinear systems using linear approximations"**
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Bateman, Alec (*with* Lin, Zongli) An analysis and design method for linear systems under nested saturation. (English summary) **2004h:93068**
Bhattacharyya, Shankar Prashad *see* **Keel, L. H. et al., 2004b:93054** *and* **Kim, Young Chul et al., 2004i:93064**
Bitmead, Robert R. Iterative optimal control design. (English summary) (*see* **2004h:93003**)
Blanchini, Franco (*with* Lepschy, Antonio; Miani, Stefano; Viaro, Umberto) Characterization of PID and lead/lag compensators satisfying given $\mathscr{H}_\infty$ specifications. (English summary) **2004m:93045**
Boyer, Frédéric *see* **Alamir, Mazen**
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Fong, I-Kong *see* **Hsu, Chih-Chin**
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French, M. *see* **Xie, Chengkang, 2004k:93049**
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Gao, Hui Jun *see* **Wang, Jun Ling[2] et al.**
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Giron-Sierra, Jose M. *see* **De la Cruz, Jesus M. et al.**
Glumineau, A. *see* **Souleiman, I. et al., 2004i:93066**
Grognard, Frédéric (*with* Canudas-de-Wit, C.) Design of orbitally stable zero dynamics for a class of nonlinear systems. (English summary) **2004j:93050**
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Hao, Fei (*with* Chu, Tianguang; Huang, Lin[1]; Wang, Long[1]) Persistent bounded disturbance rejection for impulsive systems. (English summary)
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Ho, Ming-Tzu (*with* Lin, Chia-Yi) PID controller design for robust performance. (English summary) **2004g:93074**
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Ikeda, Masao (*with* Zhai, Guisheng; Miki, Kazuhiro) Symmetric and non-symmetric controllers for symmetric systems. (English summary)
Inooka, Hikaru *see* **Ono, Takahiko et al., 2004g:93075**
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Ji, Hai Bo *see* **Kang, Yu et al., 2004k:93045**
Jiang, Zhong-Ping (*with* Mareels, Iven; Hill, David John; Huang, Jie[1]) A unifying framework for global regulation via nonlinear output feedback: from ISS to iISS. (English summary) **2004m:93047**
Jin, Yu Qiang *see* **Hu, Yun An et al.**
Jing, Yuan Wei *see* **Liu, En Dong et al.**
Jung, Ho Y. *see* **Park, Ju-Hyun, 2004j:93052**
Kanev, S. (*with* De Schutter, Bart; Verhaegen, M.) An ellipsoid algorithm for probabilistic robust controller design. (English summary) **2004i:93063**
Kang, Wei *see* **Krener, Arthur J., 2004d:93056**
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Keel, L. H. (*with* Rego, J. I.; Bhattacharyya, Shankar Prashad) A new approach to digital PID controller design. (English summary) **2004b:93054**
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Kothare, Mayuresh V. *see* **Wan, Zhaoyang, 2004h:93076**
Kouvaritakis, Basil *see* **Rossiter, J. Anthony et al., 2004k:93048**
Krener, Arthur J. (*with* Kang, Wei) Locally convergent nonlinear observers. (English summary) **2004d:93056**
Kučera, Vladimír *see* **Zítek, Pavel, 2004j:93054**
Lam, James *see* **Yue, Dong, 2004i:93068**
Lanusse, Patrick *see* **Oustaloup, Alain et al.**
La Rosa, Patricio S. *see* **Duarte-Mermoud, Manuel A., 2004h:93070**
Lee, Hungu *see* **Hur, Jong et al.**
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Leibfritz, F. (*with* Mostafa, E. M. E.) Trust region methods for solving the optimal output feedback design problem. (English summary) **2004b:93055**

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Łęski, Jacek M. Minimum absolute error classifier design with generalization control. (English summary)
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Liao, Fucheng (*with* Takaba, Kiyotsugu; Katayama, Tohru; Katsuura, Jyoji) Design of an optimal preview servomechanism for discrete-time systems in a multirate setting. (English summary) **2004e:93040**
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Lin, Du *see* **Zeng, Jian Ping**
Lin, Zongli *see* **Bateman, Alec, 2004h:93068**; **Cao, Yong-Yan et al., 2004h:93069** *and* **Hu, Tingshu et al., 2004h:93072**
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Loccufier, Mia *see* **Luyckx, Liesbeth et al., 2004e:93041**
Luo, Yousong *see* **Feng, Jian Feng[1] et al.**
Luyckx, Liesbeth (*with* Loccufier, Mia; Noldus, Erik) On the design of nonlinear controllers for Euler-Lagrange systems. (English summary) **2004e:93041**
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Mareels, Iven *see* **Jiang, Zhong-Ping et al., 2004m:93047**
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Menani, S. (*with* Koivo, H.) New approach on the automatic tuning of multivariable PI controllers using relay feedback. (English summary)
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Miani, Stefano *see* **Blanchini, Franco et al., 2004m:93045**
Miki, Kazuhiro *see* **Ikeda, Masao et al.**
Mirkin, Leonid On the approximation of distributed-delay control laws. (English summary) **2004k:93046**
Mostafa, E. M. E. *see* **Leibfritz, F., 2004b:93055**
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Nobakhti, Amin (*with* Munro, Neil) A new method for singular value loop shaping in design of multiple-channel controllers. (English summary) **2004j:93051**
Noldus, Erik *see* **Luyckx, Liesbeth et al., 2004e:93041**
Oh, JinHyoung *see* **Haddad, Wassim M. et al., 2004i:93061**
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Özgüner, Ümit *see* **Chen, Qi**
Pan, Zigang *see* **Liu, Yungang et al., 2004f:93056**
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Pommier, V. *see* **Oustaloup, Alain et al.**
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Shaked, Uri An LPD approach to robust H_2 and H_∞ static output-feedback design. (English summary) **2004c:93044**
Shamash, Yacov *see* **Cao, Yong-Yan et al., 2004h:93069**
Shmatkov, A. M. *see* **Akulenko, L. D., 2004b:93053**
Skoryk, Vasyl O. *see* **Korobov, V. I., 2004a:93032**
So, Albert T. P. *see* **Gao, Zhi Wei, 2004d:93055**
Sontag, Eduardo D. Adaptation and regulation with signal detection implies internal model. (English summary) **2004m:93048**
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Sun, Ji Tao (*with* Zhang, Yinping) Impulsive control of Rössler systems. (English summary) **2004b:93058**
— *see also* **Chen, Di Lan et al.**
Sung, Chi Wan *see* **Wong, Wing Shing, 2004i:93067**
Tahk, Min-Jea *see* **Hur, Jong et al.**
Takaba, Kiyotsugu *see* **Liao, Fucheng et al., 2004e:93040**
Tornambè, Antonio *see* **Menini, Laura, 2004h:93073**
Tuesta, E. F. *see* **Costa, Oswaldo L. V., 2004m:93046**
Ünlü, Fevzi Chance constrained threshold KBO system design. (English summary)
Velasco, Francisco *see* **De la Cruz, Jesus M. et al.**
Verhaegen, M. *see* **Kanev, S. et al., 2004i:93063**
Viaro, Umberto *see* **Blanchini, Franco et al., 2004m:93045**
Wan, Zhaoyang (*with* Kothare, Mayuresh V.) Efficient robust constrained model predictive control with a time varying terminal constraint set. (English summary) **2004h:93076**
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Wang, Dianhui *see* **Yu, Runyi, 2004j:93053**
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Wong, Wing Shing (*with* Sung, Chi Wan) Robust convergence of low-data rate-distributed controllers. (English summary) **2004i:93067**
Wu, Qi Di *see* **Chen, Di Lan et al.**
Wu, Wei-Min *see* **Dong, Li-Da et al.**
Wu, Y. J. *see* **Zhu, W. Q.**
Xi, Hong Sheng *see* **Kang, Yu et al., 2004k:93045**
Xie, Chengkang (*with* French, M.) A performance comparison between two design techniques for non-linear output feedback control. (English summary) **2004k:93049**
Xie, Li Hua *see* **Mahmoud, Magdi S.**
Xie, Liang Liang *see* **Cong, Shuang et al.**
Xie, Lin-Bo *see* **Zheng, Ying et al.**
Xu, Wei-hua *see* **Dong, Li-Da et al.**
Yakubovich, V. A. *see* **Proskurnikov, A. V., 2004f:93057**
Yan, Jun-Juh Design of robust controllers for uncertain chaotic systems with nonlinear inputs. (English summary)
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Ye, Hai Yang *see* **Cong, Shuang et al.**
Yoon, Myung-Gon Minimizing a convex combination of the overshoot and undershoot. (English summary) **2004g:93076**
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— (*with* Lam, James) Reliable memory feedback design for a class of non-linear time-delay systems. (English summary) **2004i:93068**
Zajaczkowski, J. *see* **Stonier, R. J., 2004m:93049**
Zeitz, Michael *see* **Meurer, Thomas, (2004g:93009)**
Zemliak, Alexander On time-optimal strategy of analog system design. (English summary) (*see* **2004h:00015**)
Zeng, Jian Ping (*with* Lin, Du) Design of reduced-order H_∞ controllers for discrete-time plants. (Chinese. English and Chinese summaries)
Zhai, Guisheng *see* **Ikeda, Masao et al.**
Zhang, Cheng Hui *see* **Zhong, Mai Ying et al.**
Zhang, Jifeng *see* **Liu, Yungang et al., 2004f:93056**
Zhang, Jing *see* **Wang, Guang-Xiong**
Zhang, Ke Wei[1] *see* **Feng, Jian Feng[1] et al.**
Zhang, Si Ying *see* **Liu, En Dong et al.**
Zhang, Tao[1] *see* **Nakamura, Masatoshi[2]**
Zhang, Yinping *see* **Sun, Ji Tao, 2004b:93058**
Zhang, You An *see* **Hu, Yun An et al.**
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Errata:

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Abdel-Aty Zohdy, H. S. *see* **Karam, M. et al.**

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Álvarez-Ramírez, J. *see* **Puebla, Hector et al., 2004h:93093**

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Babuška, Robert *see* **Mollov, Stanimir**

Bacic, Marko (*with* Cannon, Mark; Kouvaritakis, Basil) Constrained NMPC via state-space partitioning for input affine non-linear systems. (English summary) **2004h:93059**

Bai, Er-Wei *see* **Uçar, Ahmet et al., 2004j:93109**

Balogh, Andras *see* **Bošković, Dejan M. et al., 2004f:93101**

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Barkovsky, A. *see* **Goncharov, V. I. et al.**

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Başar, Tamer *see* **Tang, Cheng, 2004k:93146**

Belavy, C. *see* **Kouvaritakis, Basil et al.**

Berckmans, D. *see* **Quanten, S. et al.**

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Boltyanskii, Vladimir Grigor′evich (*with* Poznyak, A. S.) Robust maximum principle for a measured space as uncertainty set. (English summary) **2004b:49055**

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(Borges, Carlos F.) *see* **New trends in nonlinear dynamics and control, and their applications, 2004g:93009**

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Boyarski, S. *see* **Yaesh, I. et al., 2004h:93058**

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Cabral, Fabricio B. *see* **Safonov, Michael G., 2004f:93038**

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Cannon, Mark *see* **Bacic, Marko et al., 2004h:93059** *and* **Kouvaritakis, Basil et al.**

Cao, Yong-Yan (*with* Lin, Zongli; Chen, Ben M.) An output feedback $\mathscr{H}_\infty$ controller design for linear systems subject to sensor nonlinearities. (English summary) **2004e:93034**

Cervantes, Ilse *see* **Puebla, Hector et al., 2004h:93093**

Chandra, R. S. *see* **Krishnamurthy, Prashanth et al., 2004i:93025**

Chen, Ben M. *see* **Cao, Yong-Yan et al., 2004e:93034**

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Choi, Youngjin (*with* Chung, Wan Kyun) ★ PID trajectory tracking control for mechanical systems. **2004m:93004**

Chung, Wan Kyun *see* **Choi, Youngjin, 2004m:93004**

Colombo, P. *see* **Aurora, C. et al.**

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Das, Sarit K. (*with* Kar, P. K.) Simultaneous pole placement of M discrete-time plants using a M-periodic controller. (English summary) **2004i:93073**

Datsko, O. *see* **Goncharov, V. I. et al.**

Deutscher, Joachim Frequency domain design of reduced order observer based H_∞ controllers—a polynomial approach. (English summary) **2004a:93027**

Dymkou, Vitali (*with* Dymkov, M. P.) An application of the Fourier transform to optimization of continuous 2-D systems. (English summary) **2004d:49062**

Dymkov, M. P. *see* **Dymkou, Vitali, 2004d:49062**

Egeland, O. *see* **Shiriaev, A. S. et al., 2004g:93102**

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Er, Meng Joo *see* **Shen, Liang et al., (2004h:93004)**

Ferrara, Antonella *see* **Bartolini, Giorgio et al., 2004h:93153**

Filatov, N. M. Design of adaptive controllers using partial certainty equivalence principle. (English summary) **2004m:93141**

Findeisen, Rolf (*with* Imsland, Lars; Allgöwer, Frank; Foss, Bjarne A.) Output feedback stabilization of constrained systems with nonlinear predictive control. (English summary) **2004c:93091**

Forbes, J. Fraser *see* **Forbes, Michael G. et al.**

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Foss, Bjarne A. *see* **Findeisen, Rolf et al., 2004c:93091**

Fradkov, A. L. *see* **Shiriaev, A. S. et al., 2004g:93102**

Freiling, Gerhard *see* **Abou-Kandil, Hisham et al., 2004g:93002**

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Fromion, Vincent (*with* Scorletti, Gérard) A theoretical framework for gain scheduling. (English summary) **2004e:93036**

Fujisaki, Y. *see* **Ugrinovskiĭ, V. A. et al., 2004m:93136**

Funahashi, Yasuyuki *see* **Yamada, Manabu et al., 2004k:93121**

Gabasov, R. (*with* Kirillova, F. M.) Synthesis of optimal controls of direct feedback type. (Russian. English and Russian summaries) **2004c:49078**

Gałkowski, Krzysztof *see* **Xu, Sheng Yuan et al., 2004d:93070**

Garcia, Germain *see* **Tarbouriech, Sophie et al., 2004m:93070**

Genesio, Roberto *see* **Bianchini, Gianni et al., 2004j:93036**

Giacomini, Luisa *see* **Bartolini, Giorgio et al., 2004h:93153**

Gilliam, David S. *see* **Byrnes, Christopher I. et al., 2004k:93069**

Gomes Da Silva, J. M., Jr. *see* **Tarbouriech, Sophie et al., 2004m:93070**

Goncharov, V. I. (*with* Blinova, N.; Barkovsky, A.; Datsko, O.) Multi-loop linear control systems design. (English summary)

Gong, Wei *see* **Lan, Hai et al.**

Grimble, Michael J. *see* **Shawky, Alaa et al.**

Gu, Hai Yun *see* **Zhang, Tian Ping[1] et al.**

Guan, Zhi-Hong *see* **Chen, Wu-Hua et al., 2004h:93103**

Guay, Martin *see* **Forbes, Michael G. et al.**

Guo, Shu M. *see* **Lin, Jun Y. et al., 2004k:93086**

Hammouri, H. *see* **Nadri, M., 2004g:93032**

Han, Bing *see* **Lan, Hai et al.**

Hara, Shinji (*with* Iwasaki, Tetsuya) Finite frequency characterization of easily controllable plant toward structure/control design integration. (English summary) **2004a:93054**

Hollot, C. V. *see* **Freudenberg, Jim S. et al., 2004i:93123**

Hori, N. *see* **Rabbath, C. A. et al., 2004m:93079**

Horowitz, Isaac M. *see* **Baños, Alfonso, 2004k:93101**

Huang, Jinzhi *see* **Cai, Guoping**

Huang, Kun-Chi *see* **Chen, Min-Shin et al., 2004g:93082**

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Huang, Zhi Long *see* **Zhu, W. Q., 2004g:93133**

Hwang, Yean-Ren *see* **Chen, Min-Shin et al., 2004g:93082**

Imsland, Lars *see* **Findeisen, Rolf et al., 2004c:93091**

Ionescu, Vlad *see* **Abou-Kandil, Hisham et al., 2004g:93002**

Iwasaki, Tetsuya *see* **Hara, Shinji, 2004a:93054**

Jank, Gerhard *see* **Abou-Kandil, Hisham et al., 2004g:93002**

Janssens, K. *see* **Quanten, S. et al.**

Ji, Hai Bo *see* **Wang, Bing et al., 2004i:93027**

Jonckheere, Edmond A. *see* **Bohacek, Stephan, 2004g:93114**

(Kang, Wei) *see* **New trends in nonlinear dynamics and control, and their applications, 2004g:93009**

Kar, P. K. *see* **Das, Sarit K., 2004i:93073**

Karam, M. (*with* Zohdy, M. A.; Abdel-Aty Zohdy, H. S.) A modular recurrent dynamic neural network for robust optimal control. (English summary)

Karas, A. *see* **Kouvaritakis, Basil et al.**

Kazantzis, Nikolaos (*with* Kravaris, Costas) Discrete-time nonlinear observer design using functional equations. (English summary)

— "Invariance-inducing" control of nonlinear discrete-time dynamical systems. (English summary) **2004h:93114**

— *see also* **Xiao, MingQing et al., 2004b:93023** *and* **Kravaris, Costas et al., 2004k:93063**

Keel, L. H. *see* **Tantaris, R. N. et al.**

Kennedy, Diane *see* **Miller, Daniel E., 2004f:93112**

Khorrami, F. *see* **Krishnamurthy, Prashanth et al., 2004i:93025**

Kimura, Hidenori *see* **Mitrishkin, Yu. V. et al., 2004e:93067**

Kirillova, F. M. *see* **Gabasov, R., 2004c:49078**

Kolpakov, A. G. Design of a beam with controllable force elements. (Russian. Russian summary) **2004f:74068**

Kouvaritakis, Basil (*with* Cannon, Mark; Karas, A.; Rohal-Ilkiv, B.; Belavy, C.) Asymmetric constraints with polytopic sets in MPC with application to coupled tanks system. (English summary)

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Kravaris, Costas (*with* Niemiec, Michael; Kazantzis, Nikolaos) Singular PDEs and the assignment of zero dynamics in nonlinear systems. (English summary) **2004k:93063**
— *see also* **Xiao, MingQing et al., 2004b:93023***and* **Kazantzis, Nikolaos**
Krener, Arthur J. *see* **Xiao, MingQing et al., 2004b:93023**
Krishnamurthy, Prashanth (*with* Khorrami, F.; Chandra, R. S.) Global high-gain-based observer and backstepping controller for generalized output-feedback canonical form. (English summary) **2004i:93025**
Krstić, Miroslav *see* **Bošković, Dejan M. et al., 2004f:93101**
Kurachi, Kan *see* **Mitrishkin, Yu. V. et al., 2004e:93067**
Lafortune, Stéphane[1] *see* **Rohloff, Kurt, 2004d:93008**
Lam, James *see* **Xu, Sheng Yuan et al., 2004d:93070**
Lan, Hai (*with* Li, Dian Pu; Gong, Wei; Yang, Li Hua; Han, Bing) Robust nonlinear control for power system excitation via disturbance attenuation. (Chinese. English and Chinese summaries)
Lechevin, N. *see* **Rabbath, C. A. et al., 2004m:93079**
Lee, E. Stanley *see* **Li, Hong Xing et al., 2004i:93121**
Lee, Tong Heng *see* **Huang, Su Nan et al., 2004i:93005**
Li, Dian Pu *see* **Lan, Hai et al.**
Li, Gang[2] *see* **Chen, Sheng[2] et al., 2004h:93080**
Li, Hong Xing (*with* Li, Yan Da; Miao, Zhi-Hong; Lee, E. Stanley) Control functions of fuzzy controllers. (English summary) **2004i:93121**
Li, Kuei-Hsiang *see* **Yeh, Zong-Mu**
Li, Yan Da *see* **Li, Hong Xing et al., 2004i:93121**
Lima, Pedro U. *see* **Tabuada, Paulo et al., 2004m:93087**
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Lin, Zhiping *see* **Xu, Sheng Yuan et al., 2004d:93070**
Lin, Zongli *see* **Cao, Yong-Yan et al., 2004e:93034**
Lonngren, Karl E. *see* **Uçar, Ahmet et al., 2004j:93109**
Ludvigsen, H. *see* **Shiriaev, A. S. et al., 2004g:93102**
Maggiore, Manfredi (*with* Passino, Kevin M.) A separation principle for non-UCO systems: the jet engine stall and surge example. (English summary) **2004d:93065**
Magni, Lalo *see* **Aurora, C. et al.**
Majchrzak, Jarosław *see* **Kozłowski, Krzysztof**
Martínez, Sonia (*with* Cortés, Jorge; Bullo, Francesco) Analysis and design of oscillatory control systems. (English summary) **2004c:93101**
Mastorakis, Nikos E. *see* **Shen, Liang et al., (2004h:93004)**
Mayne, D. Q. (*with* Raković, S.) Model predictive control of constrained piecewise affine discrete-time systems. (English summary) **2004c:93039**
McKenna, Paul *see* **Quanten, S. et al.**
Miao, Zhi-Hong *see* **Li, Hong Xing et al., 2004i:93121**
Middleton, Richard H. *see* **Freudenberg, Jim S. et al., 2004i:93123**
Milanese, Mario (*with* Taragna, Michele) Editorial: Special issue on robust control design from data: direct and model based approaches.
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— A new approach to model reference adaptive control. (English summary) **2004b:93075**
Mitrishkin, Yu. V. (*with* Kurachi, Kan; Kimura, Hidenori) Plasma multivariable robust control system design and simulation for a thermonuclear tokamak-reactor. (English summary) **2004e:93067**
Mollov, Stanimir (*with* Babuška, Robert) Analysis of interactions and multivariable decoupling fuzzy control for a binary distillation column. (English summary)
Montagnier, Pierre (*with* Spiteri, Raymond J.; Angeles, Jorge) The control of linear time-periodic systems using Floquet-Lyapunov theory. (English summary) **2004m:93061**
Nadri, M. (*with* Hammouri, H.) Design of a continuous-discrete observer for state affine systems. (English summary) **2004g:93032**
Naumov, G. V. Optimal synthesis in a two-dimensional problem with asymmetric constraints on the control. (Russian. Russian summary) **2004b:49077**
Niemiec, Michael *see* **Kravaris, Costas et al., 2004k:93063**
Ordys, Andrzej *see* **Shawky, Alaa et al.**
Owens, David H. *see* **Xu, Sheng Yuan et al., 2004d:93070**
Özbay, Hitay On the computation of H^∞ optimal controllers and connections with IMC-based design. (English summary)
Palm, Rainer (*with* Stutz, Christiane) Generation of control sequences for a fuzzy gain scheduler. (English summary)
Pappas, George J. *see* **Tabuada, Paulo et al., 2004m:93087**
Parenti, Alessandro *see* **Bianchini, Gianni et al., 2004j:93036**
Passino, Kevin M. *see* **Maggiore, Manfredi, 2004d:93065**
Paszke, Wojciech *see* **Xu, Sheng Yuan et al., 2004d:93070**
Peng, Huei[2] *see* **Pukrushpan, Jay T. et al.**
Perruquetti, Wilfrid (*with* Richard, Jean-Pierre; Borne, Pierre) A generalized regular form for multivariable sliding mode control. (English summary)
Petropoulakis, Lykourgos *see* **Shawky, Alaa et al.**
Poznyak, A. S. *see* **Boltyanskii, Vladimir Grigor'evich, 2004b:49055**
Pretolani, F. *see* **Aurora, C. et al.**
Puebla, Hector (*with* Álvarez-Ramírez, J.; Cervantes, Ilse) A simple tracking control for Chua's circuit. (English summary) **2004h:93093**
Pukrushpan, Jay T. (*with* Stefanopoulou, Anna G.; Peng, Huei[2]) Control of fuel cell breathing.
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Rabbath, C. A. (*with* Hori, N.; Lechevin, N.) Convergence of sampled-data models in digital redesign. (English summary) **2004m:93079**
Raković, S. *see* **Mayne, D. Q., 2004c:93039**
Ren, Jun-sheng (*with* Yang, Yan-sheng; Zhou, Chang-jiu) Design of Takagi-Sugeno fuzzy controller using PDC and its application to hydrofoil catamaran. (English summary)
Richard, Jean-Pierre *see* **Perruquetti, Wilfrid et al.**
Rogers, Eric *see* **Xu, Sheng Yuan et al., 2004d:93070**
Rohal-Ilkiv, B. *see* **Kouvaritakis, Basil et al.**
Rohloff, Kurt (*with* Lafortune, Stéphane[1]) On the synthesis of safe control policies in decentralized control of discrete-event systems. (English summary) **2004d:93008**
Saberi, Ali *see* **Shi, Guoyong et al., 2004e:93088**
Safonov, Michael G. (*with* Cabral, Fabricio B.) Fitting controllers to data. (English summary) **2004f:93038**
Sandberg, Irwin W. Causality and the impulse response scandal. (English summary)
Sayed, Ali H. *see* **Subramanian, Ananth, 2004i:93188**
Scattolini, R. *see* **Aurora, C. et al.**
Schnitman, L. (*with* Yoneyama, Takashi) A novel adaptive controller using fuzzy estimators. (English summary)
Scorletti, Gérard *see* **Fromion, Vincent, 2004e:93036**
Segev, Reuven *see* **Ailon, Amit et al., 2004i:93129**
Semerdjiev, Tzvetan *see* **Simeonova, Iliyana, (2004j:65007)**
Shaked, Uri *see* **Yaesh, I. et al., 2004h:93058**
Shao, Hui He *see* **Zhang, Li Qun**
Shawky, Alaa (*with* Ordys, Andrzej; Grimble, Michael J.; Petropoulakis, Lykourgos) End-point control of a flexible-link manipulator using state-dependent Riccati equation technique. (English summary)
Shen, Liang (*with* Er, Meng Joo; Mastorakis, Nikos E.) Mixed H_2/H_∞ design of a multirate output controller. (English summary) (*see* **2004h:93004**)
Sheng, Jie (*with* Sun, Jian-Qiao) Sliding control accounting for hardware limitation of mechanical actuators with deadzone.
Shi, Guoyong (*with* Saberi, Ali; Stoorvogel, Anton A.) On the L_p (l_p) stabilization of open-loop neutrally stable linear plants with input subject to amplitude saturation. (English summary) **2004e:93088**
Shieh, Leang-San *see* **Lin, Jun Y. et al., 2004k:93086**
Shields, D. N. Models, residual design and limits to fault detection for a complex multi-tank hydraulic control system. (English summary)
Shiriaev, A. S. (*with* Egeland, O.; Ludvigsen, H.; Fradkov, A. L.) VSS-version of energy-based control for swinging up a pendulum. (English summary) **2004g:93102**
Shubov, V. I. *see* **Byrnes, Christopher I. et al., 2004k:93069**
Simeonova, Iliyana (*with* Semerdjiev, Tzvetan) About the specifics of the IMM algorithm design. (English summary) (*see* **2004j:65007**)
Sintzoff, Michel On the design of correct and optimal dynamical systems and games. (English summary)
Sirotin, A. N. Some problems of the control of bilinear discrete systems with triangular matrices. (Russian. Russian summary)
Spiteri, Raymond J. *see* **Montagnier, Pierre et al., 2004m:93061**
Stefanopoulou, Anna G. *see* **Pukrushpan, Jay T. et al.**
Stoorvogel, Anton A. *see* **Shi, Guoyong et al., 2004e:93088**
Stutz, Christiane *see* **Palm, Rainer**
Subramanian, Ananth (*with* Sayed, Ali H.) Multiobjective filter design for uncertain stochastic time-delay systems. (English summary) **2004i:93188**
Sulikowski, Bartek *see* **Xu, Sheng Yuan et al., 2004d:93070**
Sun, Jian-Qiao *see* **Sheng, Jie**
Tabuada, Paulo (*with* Pappas, George J.; Lima, Pedro U.) Compositional abstractions of hybrid control systems. (English summary) **2004m:93087**
Tan, Kok Kiong *see* **Huang, Su Nan et al., 2004i:93005**
Tan, Ying[1] *see* **Xu, Jian-Xin, 2004e:93001**
Tang, Cheng (*with* Başar, Tamer) Minimax nonlinear control under stochastic uncertainty constraints. (English summary) **2004k:93146**
Tantaris, R. N. (*with* Keel, L. H.; Bhattacharyya, Shankar Prashad) Stabilization by three term controllers. (English summary)
Tao, Gang *see* **Taware, Avinash, 2004d:93075**
Taragna, Michele *see* **Milanese, Mario**
Tarbouriech, Sophie (*with* Gomes Da Silva, J. M., Jr.; Garcia, Germain) Delay-dependent anti-windup strategy for linear systems with saturating inputs and delayed outputs. (English summary) **2004m:93070**
Taware, Avinash (*with* Tao, Gang) An adaptive dead-zone inverse controller for systems with sandwiched dead-zones. (English summary) **2004d:93075**
Tempo, R. *see* **Ugrinovskiĭ, V. A. et al., 2004m:93136**
Tesi, Alberto *see* **Bianchini, Gianni et al., 2004j:93036**
Tong, Ming An *see* **Wang, Wen Qing**
Toochinda, Varodom *see* **Freudenberg, Jim S. et al., 2004i:93123**
Tsai, Jason Sheng-Hong *see* **Lin, Jun Y. et al., 2004k:93086**
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Ugrinovskiĭ, V. A. (*with* Tempo, R.; Fujisaki, Y.) A primal-dual probabilistic setting for quadratic stability of uncertain systems. (English summary) **2004m:93136**
Valášek, Michael Design of nonlinear control of nonlinear multibody systems. **2004g:70010**
Van Brecht, A. *see* **Quanten, S. et al.**
Van Hirtum, A. *see* **Quanten, S. et al.**
Villa, G. *see* **Aurora, C. et al.**
Wang, Bing (*with* Ji, Hai Bo; Xi, Hong Sheng) Nonlinear observer design via circle criterion. (Chinese. English and Chinese summaries) **2004i:93027**
Wang, Long[1] Kharitonov-like theorems for robust performance of interval systems. (English summary) **2004b:93106**
Wang, Wen Qing (*with* Tong, Ming An) Decentralized adaptive robust controller design for a class of complex systems. (Chinese. English and Chinese summaries)
Wu, Jun[3] *see* **Chen, Sheng[2] et al., 2004h:93080**
Xi, Hong Sheng *see* **Wang, Bing et al., 2004i:93027**
Xiao, MingQing (*with* Kazantzis, Nikolaos; Kravaris, Costas; Krener, Arthur J.) Nonlinear discrete-time observer design with linearizable error dynamics. (English summary) **2004b:93023**

— *see also* **New trends in nonlinear dynamics and control, and their applications**, **2004g:93009**
Xie, Yan Hong *see* **Zhang, Xiu Hua et al.**
Xu, Jian-Xin (*with* Tan, Ying[1]) ★ Linear and nonlinear iterative learning control. **2004e:93001**
— *see also* **Chen, Wu-Hua et al.**, **2004h:93103**
Xu, Sheng Yuan (*with* Lam, James; Lin, Zhiping; Gałkowski, Krzysztof; Paszke, Wojciech; Sulikowski, Bartek; Rogers, Eric; Owens, David H.) Positive real control of two-dimensional systems: Roesser models and linear repetitive processes. (English summary) **2004d:93070**
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93B52 Feedback control

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Stefanopoulou, Anna G. *see* **Pukrushpan, Jay T. et al.**
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Trobajo, M. T. *see* **Hermida-Alonso, Jose A.**, **2004d:93057**
Tsimring, Lev S. *see* **Martínez-Zérega, B. E. et al.**
Tsui, Sze-kai *see* **Hou, Xuezhang**, **2004c:93046**
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Wang, Guanyu *see* **Brandt, Michael E. et al.**, **2004i:93069**

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Yuz, Juan I. *see* **Goodwin, Graham C. et al., 2004i:93070**
Zagalak, Petr *see* **Kraffer, Ferdinand, 2004b:93060**
Zhang, Hui Ying *see* **Xia, Yong Hui et al.**
Zhang, Qing Ling *see* **Jing, Xin**
Zhou, Dong Hua *see* **Chen, Mao Yin et al., 2004k:93051**
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Aubry, Nadine *see* **Li, Fu, 2004e:76051**
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Bewley, Thomas R. *see* **Cathalifaud, Patricia, 2004k:93070** *and* **2004m:93063**
Bhattacharyya, Shankar Prashad *see* **Kim, Young Chul et al., 2004i:93064**
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García-Sanz, Mario *see* **Gil-Martínez, M., 2004e:93033**
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Hara, Shinji *see* **Chen, Jie[4] et al., 2004g:93072**
Hardouin, Laurent *see* **Maia, C. A. et al., 2004i:93116**
Hatfield, Jay *see* **Grimm, Gene et al., 2004e:93076**
He, Jiwen *see* **Glowinski, Roland, 2004j:93104**
Hebden, Roderick G. *see* **Edwards, Christopher et al., 2004g:93038**
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Hsu, Sze-Bi *see* **Chen, Goong et al., (2004e:93002)**
Huang, De Yun *see* **Zhang, Xiao Ming et al.**
Huang, Xianqing *see* **Lin, Wei[2] et al., 2004i:93157**
Huo, Hai Feng (*with* Li, Wan Tong) Positive periodic solutions of a class of delay differential system with feedback control. (English summary) **2004h:34133**
Iggidr, A. *see* **Mazenc, Frédéric, 2004k:93116**
Iwasa, Yoh *see* **Shudo, Emi et al.**
Ji, Hai Bo *see* **Wang, Jun[8] et al.**
Jia, Jiang Tao *see* **Liu, Ya Xiang et al.**
Jiang, Zhong-Ping *see* **Krishnamurthy, Prashanth et al., 2004c:93023**
Johnson, Russell A. *see* **Fabbri, Roberta et al., 2004i:93014**
Kapitaniak, Tomasz *see* **Stefański, Andrzej**
Keel, L. H. *see* **Kim, Young Chul et al., 2004i:93064**
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Lü, Jinhu (*with* Lu, Jun An) Controlling uncertain Lü system using linear feedback. (English summary) **2004a:37039**
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del-Muro-Cuéllar, Basilio *see* **Camart, Jean-François et al., 2004d:93039**
Pommaret, Jean-François Poles and zeros of nonlinear control systems. (English summary) **2004a:93045**
Ray, Goshaidas *see* **Baksi, Dibyendu et al., 2004b:93107**
Starkov, Konstantin E. Observability conditions of linear time-varying systems and its computational complexity aspects. (English summary) **2004b:93021**
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93Cxx Control systems, guided systems

93C05 Linear systems

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Cotroneo, Tommaso (*with* Willems, Jan C.) The simulation problem for high order linear differential systems. (English summary) **2004i:93078**
Cubiotti, Paolo A theorem of the alternative for linear control systems. (English summary) **2004h:93085**
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Fabbri, Roberta (*with* Johnson, Russell A.; Nuñez Jimenez, Carmen) On the Yakubovich frequency theorem for linear non-autonomous control processes. (English summary) **2004m:93054**
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Ferrante, Augusto (*with* Pandolfi, Luciano) On the solvability of the positive real lemma equations. (English summary) **2004f:93060**
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Jönsson, Ulf T. *see* **Hu, Xiaoming et al., (2004e:93003)**
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Karcanias, Nicos (*with* Mitrouli, Marilena) System theoretic based characterisation and computation of the least common multiple of a set of polynomials. (English summary)
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Martin, Clyde F. *see* **Hu, Xiaoming et al., (2004e:93003)**
Mitrouli, Marilena *see* **Karcanias, Nicos**
Nguyen, D. V. *see* **Lévine, Jean, 2004f:93061**
Nuñez Jimenez, Carmen *see* **Fabbri, Roberta et al., 2004m:93054**
Pandolfi, Luciano *see* **Ferrante, Augusto, 2004f:93060**
Qiu, Li *see* **Su, Weizhou et al., 2004h:93086**
Quadrat, Alban The fractional representation approach to synthesis problems: an algebraic analysis viewpoint. I. (Weakly) doubly coprime factorizations. (English summary) **2004f:93062**
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Sasane, Amol J. (*with* Curtain, Ruth F.) Inertia theorems for operator Lyapunov inequalities. (English summary) **2004f:93064**
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Vinnicombe, Glenn *see* **Cantoni, Michael, 2004c:93051**
Willems, Jan C. *see* **Cotroneo, Tommaso, 2004i:93078**
Wimmer, Harald K. Existence of unmixed solutions of the discrete-time algebraic Riccati equation and a nonstrictly bounded real lemma. (English summary) **2004f:93065**
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Bhattacharyya, Shankar Prashad *see* **Kim, Young Chul et al., 2004i:93064**
Blinova, N. *see* **Goncharov, V. I. et al.**
Borrelli, Francesco ★ Constrained optimal control of linear and hybrid systems. **2004i:49001**
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Brooms, A. C. (*with* Kouvaritakis, Basil; Lee, Young Il) Constrained MPC for uncertain linear systems with ellipsoidal target sets. (English summary) **2004g:93115**
Brown, Ronald H. *see* **Singh, Hardev et al.**
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Clements, David J. (*with* Wimmer, Harald K.) Existence and uniqueness of unmixed solutions of the discrete-time algebraic Riccati equation. (English summary) **2004h:93112**
Coll, Carmen *see* **Bru, Rafael et al., (2004h:93004)**
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Czornik, Adam (*with* Nawrat, Aleksander) On the bounds on the solutions of the algebraic Lyapunov and Riccati equations. (English summary) **2004f:93047**
Datsko, O. *see* **Goncharov, V. I. et al.**
Dong, Ya Li *see* **Cheng, Dai Zhan**
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Feng, Chun Bo *see* **Shao, Han Yong**
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Freiling, Gerhard (*with* Hochhaus, A.) Convergence and existence results for continuous- and discrete-time Riccati equations. (English summary) **2004i:34009**
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García-Planas, Ma. Isabel Generic families of generalized linear systems. (English summary) **2004d:93028**
— Controllability of l-order linear systems. (English summary) **2004d:93013**
— *see also* **Carriegos, Miguel V., 2004b:93014**
Goncharov, V. I. (*with* Blinova, N.; Barkovsky, A.; Datsko, O.) Multi-loop linear control systems design. (English summary)
Griffin, S. J. *see* **Clarke, Tim**
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Hauksdóttir, Anna Soffía Optimal zero locations of continuous-time systems with distinct poles tracking reference step responses. (English summary)
Helton, J. William *see* **Camino, Juan F. et al., 2004f:90102**
Hennet, Jean-Claude *see* **Castelan, Eugênio B. et al., 2004b:93108**
Hermida-Alonso, Jose A. (*with* Trobajo, M. T.) The dynamic feedback equivalence over principal ideal domains. (English summary) **2004d:93057**
Hilscher, Roman (*with* Zeidan, Vera) Equivalent conditions to the nonnegativity of a quadratic functional in discrete optimal control. (English summary) **2004m:39030**
Hochhaus, A. *see* **Freiling, Gerhard, 2004i:34009**
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Huang, Biao *see* **Zhang, Li Qian[2] et al., 2004g:93057**
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Hwang, Chyi *see* **Yang, Shih-Feng, 2004a:93066**
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Ioannou, Petros A. *see* **Zhang, Youping et al., 2004i:93059**
Ionescu, Vlad *see* **Abou-Kandil, Hisham et al., 2004g:93002**
Ishitobi, Mitsuaki *see* **Liang, Shan et al., 2004i:93138**
Jacob, Birgit An operator theoretical approach towards systems over the signal space $l_2(\mathbb{Z})$. (English summary) **2004c:93028**
Jank, Gerhard *see* **Abou-Kandil, Hisham et al., 2004g:93002**
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— The relationship between the infinite eigenvalue assignment for singular systems and the solvability of polynomial matrix equations. (English summary) **2004c:93049**
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Karcanias, Nicos (*with* Vafiadis, Konstantinos G.) Derivation of effective transfer function models by input, output variables selection. (English summary) **2004a:93019**
Katayama, Tohru *see* **Liao, Fucheng et al., 2004e:93040**
Katsuura, Jyoji *see* **Liao, Fucheng et al., 2004e:93040**
Kazlauskas, Kazys Optimal estimation of the parameters of linear periodically time-varying systems. (English and Lithuanian summaries)
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Konstantinov, Mikhail M. (*with* Gu, Da-Wei; Mehrmann, Volker; Petkov, Petko Khr.) ★ Perturbation theory for matrix equations. **2004g:15019**
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Kouvaritakis, Basil *see* **Brooms, A. C. et al., 2004g:93115**
Kučera, Vladimír *see* **Fernández-Anaya, G. et al., 2004b:93042**
Lam, James *see* **Zhang, Li Qian[2] et al., 2004g:93057**
Lang, Patrick Karl *see* **Feldmann, Sven, 2004j:93023**
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Lee, Chien-Hua Solution bounds of the continuous Riccati matrix equation. (English summary) **2004g:93068**
— Matrix bounds of the solutions of the continuous and discrete Riccati equations—a unified approach. (English summary) **2004d:93052**
Lee, Young Il *see* **Brooms, A. C. et al., 2004g:93115**
Li, Changjun[1] *see* **Shao, Xin Hui et al.**
Li, Yan *see* **Shao, Xin Hui et al.**
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Liberzon, Daniel On stabilization of linear systems with limited information. (English summary) **2004c:93098**
Lin, Zongli *see* **Hu, Tingshu et al., 2004d:93089**; **Bateman, Alec, 2004h:93068** *and* **Chitour, Yacine, 2004k:93104**
Liu, K. J. Ray *see* **Mercado, Alejandra, 2004e:93072**
Liu, Wan Quan (*with* Sreeram, V.) Model reduction of singular systems. (English summary) **2004b:93027**
Llanos Villarreal, Elmer R. *see* **Castelan, Eugênio B. et al., 2004b:93108**
Lozgachev, G. I. *see* **Dylevskiĭ, A. V., 2004f:93052**
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Marconi, Lorenzo Semiglobal regulation of linear systems in presence of measurement constraint. (English summary) **2004g:93077**
Marro, Giovanni (*with* Prattichizzo, Domenico; Zattoni, Elena) A nested computational approach to the discrete-time finite-horizon LQ control problem. (English summary) **2004e:49050**
Martínez-García, J. C. *see* **Fernández-Anaya, G. et al., 2004b:93042**
Mason, Oliver *see* **Shorten, Robert N. et al., 2004j:93099**
Mastorakis, Nikos E. A new method for computing the stability margin of 2-D discrete systems. (English summary) (*see* **2004h:93004**)
— On the robust stability of 2-D Schur polynomials. (English summary) (*see* **2004h:93004**)
Mehrmann, Volker *see* **Konstantinov, Mikhail M. et al., 2004g:15019**; **2004h:15020** *and* **Wang, Ying et al.**

Mercado, Alejandra (*with* Liu, K. J. Ray) NP-hardness of the stable matrix in unit interval family problem in discrete time. (English summary) **2004e:93072**
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Mukaidani, Hiroaki (*with* Shimomura, Tetsu; Xu, Hua) Asymptotic expansions of solutions of cross-coupled algebraic Riccati equations of multimodeling systems related to Nash games. (English summary) **2004g:91025**
Naidu, D. Subbaram *see* **Singh, Hardev et al.**
Nawrat, Aleksander *see* **Czornik, Adam, 2004f:93047**
Ng, Michael K. *see* **Lu, Lin Zhang, 2004m:93044**
Núñez-Pérez, Eduardo *see* **Castillo-Toledo, Bernardino, 2004i:93088**
Nurges, Ülo Some new stability margins for discrete-time systems. (English and Estonian summaries) **2004f:93096**
O'Cairbre, Fiacre *see* **Shorten, Robert N. et al., 2004j:93099**
Ortega, Romeo *see* **Barabanov, Nikita E., 2004m:15020**
Pappas, George J. (*with* Simić, Slobodan N.) Consistent abstractions of affine control systems. (English summary) **2004g:93011**
Pârvan, Monica *see* **Prepeliță, Valeriu, 2004k:93017**
Patre, B. M. (*with* Bandyopadhyay, B.) Robust variable structure model following controller for load frequency control. (English summary)
Pavon, Michele *see* **Ferrante, Augusto et al., 2004f:93088**
Petkov, Petko Khr. *see* **Konstantinov, Mikhail M. et al., 2004g:15019** *and* **2004h:15020**
Pinzoni, Stefano *see* **Ferrante, Augusto et al., 2004f:93088**
Poddubnaya, O. N. *see* **Marchenko, Vladimir Matveevich**
Prattichizzo, Domenico *see* **Marro, Giovanni et al., 2004e:49050**
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Puerta, X. *see* **Ferrer Llop, Josep et al., 2004h:93030**
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Pugh, A. C. *see* **Tan, Lian-Sheng, 2004h:93032**
Quadrat, Alban On a generalization of the Youla-Kučera parametrization. I. The fractional ideal approach to SISO systems. (English summary) **2004h:93039**
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— *see also* **Shi, Guoyong et al., 2004e:93088**
Sánchez, Elena *see* **Bru, Rafael et al., (2004h:93004)**
Sannuti, Peddapullaiah *see* **Saberi, Ali et al., 2004b:93052**
Sasane, Amol J. On the Willems closure with respect to $\mathscr{W}_0$. (English summary) **2004b:93007**
Schumacher, J. M. (*with* Başer, U.) Representability of impulsive input/output behaviors in descriptor form. (English summary) **2004e:93009**
Shamash, Yacov *see* **Hu, Tingshu et al., 2004d:93089**
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— *see also* **Saberi, Ali et al., 2004b:93052**
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Silva, Fernando C. *see* **Ferreira, Cristina, 2004m:15017**
Simić, Slobodan N. *see* **Pappas, George J., 2004g:93011**
Singh, Hardev (*with* Brown, Ronald H.; Naidu, D. Subbaram) Discrete-time timescale analysis via a new separation ratio and unified approach. (English summary)
Skelton, Robert E. *see* **Camino, Juan F. et al., 2004f:90102**
Smirnov, N. V. Optimal multiprogrammed stabilization of linear systems. (English summary)
Soh, Yeng Chai *see* **Yang, Guang-Hong et al.**
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— *see also* **Antoulas, A. C. et al., 2004g:93044**
Sreeram, V. *see* **Liu, Wan Quan, 2004b:93027**
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Stoorvogel, Anton A. *see* **Saberi, Ali et al., 2004b:93052** *and* **Shi, Guoyong et al., 2004e:93088**
Sun, You Xian *see* **Zhang, Hui[3]**
Takaba, Kiyotsugu *see* **Liao, Fucheng et al., 2004e:93040**
Tan, Lian-Sheng (*with* Pugh, A. C.) Spectral structures of the generalized companion form and applications. (English summary) **2004h:93032**
Tang, Shanjian *see* **Kohlmann, Michael, 2004f:93138**
Trentelman, H. L. On flat systems behaviors and observable image representations. (English summary) **2004j:93018**
Trobajo, M. T. *see* **Hermida-Alonso, Jose A., 2004d:93057**
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Unbehauen, H. *see* **Umapathy, M. et al.**
Utina, N. V. An estimate for the initiation time of a transient process from the output for a discrete phase system. (Russian. English and Russian summaries) **2004m:93077**
Vafiadis, Konstantinos G. *see* **Karcanias, Nicos, 2004a:93019**
Vardulakis, A. I. G. (*with* Antoniou, E. N.) Fundamental equivalence of discrete-time AR representations. (English summary) **2004d:93131**
Velásquez Bermúdez, Jesús M. GDDP: generalized dual dynamic programming theory. (English summary) **2004b:90137**
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Wang, Guo Rong[1] *see* **Zheng, Bing**
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Lecture Notes in Control and Information Sciences *see* **Johansson, Mikael, 2004d:93002; Gałkowski, Krzysztof, 2004f:93002** *and* **Borrelli, Francesco, 2004i:49001**

93C10 Nonlinear systems

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Aracil, Javier *see* **Gordillo, Francisco et al., 2004d:93063**
Auckly, David (*with* Kapitanskiĭ, L. V.) On the λ-equations for matching control laws. (English summary) **2004b:93062**
Backx, Ton A. C. P. M. *see* **Ludlage, Jobert H. A. et al., 2004c:93052**
Ballance, Donald J. *see* **Chen, Wen-Hua, 2004g:93083**
Benassi, L. *see* **Elliott, S. J. et al.**
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Billings, Stephen A. *see* **Lee, Kian, 2004d:93064**
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Chandre, C. *see* **Ciraolo, G. et al.**

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— *see also* **Yang, Guo Wu, 2004k:93067**
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Figarella, C. *see* **Ciraolo, G. et al.**
Francis, Bruce A. *see* **Lin, Zhiyun et al., 2004m:93058**
Freire Macías, Emilio *see* **Algaba, Antonio et al., 2004d:93059**
Gamero, Estanislao *see* **Algaba, Antonio et al., 2004d:93059**
Gardonio, P. *see* **Elliott, S. J. et al.**
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Han, Zheng Zhi *see* **Chen, Mao Yin**
Ho, Daniel W. C. *see* **Lu, Guo Ping, 2004h:93092**
Huang, De Yun *see* **Zhang, Xiao Ming et al.**
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Ikeda, Masao *see* **Zhai, Guisheng et al.**
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Isidori, Alberto *see* **Byrnes, Christopher I. et al., 2004m:93056**
Jean, Frédéric *see* **Chitour, Yacine et al., 2004f:93068**
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Jouan, Philippe Immersion of nonlinear systems into linear systems modulo output injection. (English summary) **2004a:93043**
Kabamba, Pierre T. *see* **Eun, Yongsoon et al., 2004k:93060**
Kaczorek, Tadeusz Locally positive nonlinear systems. (English summary) **2004i:93082**
Kang, Wei *see* **Hamzi, Boumediene, 2004h:93089** *and* **Xiao, MingQing, 2004k:93066**
Kapitanskiĭ, L. V. *see* **Auckly, David, 2004b:93062**
Kappos, Efthimios Local controlled dynamics. (English summary) **2004b:93063**
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— *see also* **Kravaris, Costas et al., 2004k:93063**
Kotecha, Ketan *see* **Nataraj, Paluri S. V., 2004e:93046**
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Lee, Tong Heng *see* **Lin, Chong et al., 2004h:93091**
Li, Chun Wen *see* **Wu, Re Bing et al.**
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Lin, Chih-Min *see* **Peng, Ya-Fu**
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Mazumder, Sudip K. (*with* Nayfeh, Ali Hasan) A new approach to the stability analysis of boost power-factor-correction circuits. (English summary) **2004m:93059**
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Millerioux, Gilles (*with* Daafouz, Jamal) An observer-based approach for input-independent global chaos synchronization of discrete-time switched systems. (English summary)
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Nayfeh, Ali Hasan *see* **Mazumder, Sudip K., 2004m:93059**
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Niţă, Alina (*with* Niţă, Ana) The finite disturbance decoupling of some nonlinear systems. (English summary)
Niţă, Ana *see* **Niţă, Alina**
Nõmm, Sven *see* **Pearson, Ronald Korin et al., 2004a:93044**
Ober, Raimund J. *see* **Hunt, L. R. et al., 2004k:93061**
Paolini, Eduardo E. *see* **Alonso, Diego M. et al., 2004i:93081** *and* **D'Amico, María Belén et al.**
Passino, Kevin M. *see* **Maggiore, Manfredi, 2004c:93053** *and* **2004d:93065**
Păstrăvanu, Octavian *see* **Marinovici, Laurentiu, 2004e:93045** *and* **Voicu, Mihail, (2004k:93003)**
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Pokrovskii, A. V. *see* **Bondarenko, V. A. et al., 2004f:93066**
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Puta, Mircea *see* **Nagy, Péter T.**
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Rodríguez-Luis, Alejandro J. *see* **Algaba, Antonio et al., 2004d:93059**
Ruiz-León, J. J. *see* **Čelikovský, S. et al., 2004m:93057**
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— Discrete-space Volterra series representations with truncation bounds. (English summary) **2004c:93054**
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Stefanopoulou, Anna G. *see* **Peterson, Katherine et al., (2004d:93004)**
Stoorvogel, Anton A. *see* **Ludlage, Jobert H. A. et al., 2004c:93052**
Su, Juhng-Perng *see* **Wang, Chun-Chieh, 2004k:93065**
Suárez, Rodolfo *see* **Moreno, Isai, 2004k:93064**
Sun, Ji Tao Impulsive control of a new chaotic system. (English summary)
Tang, Wallace Kit-Sang *see* **Jiang, Guo-Ping et al., 2004a:93042**
Tian, Yu Ping[1] *see* **Zhu, Jian Dong, 2004b:93065**
Torres Muñoz, Jorge A. *see* **Čelikovský, S. et al., 2004m:93057**

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Voicu, Mihail (*with* Păstrăvanu, Octavian) Flow-invariance method in control—a survey of some results. (English summary) (*see* **2004k:93003**)
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Wang, Chun-Chieh (*with* Su, Juhng-Perng) A new adaptive variable structure control for chaotic synchronization and secure communication. (English summary) **2004k:93065**
Wang, Hong[5] *see* **Ye, Hua Wen et al.**
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Wang, Qing-Guo *see* **Lin, Chong et al., 2004h:93091**
Wang, Yan *see* **Peterson, Katherine et al., (2004d:93004)**
Ward, E. Sally *see* **Hunt, L. R. et al., 2004k:93061**
Weiland, Siep *see* **Ludlage, Jobert H. A. et al., 2004c:93052**
Wen, GuiLin (*with* Xu, Daolin; Xie, Jian Hua) Control of degenerate Hopf bifurcations in three-dimensional maps. (English summary) **2004d:93066**
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Xiao, MingQing (*with* Kang, Wei) Control of Hopf bifurcations for infinite-dimensional nonlinear systems. (English summary) **2004k:93066**
Xie, Jian Hua *see* **Wen, GuiLin et al., 2004d:93066**
Xie, Jin *see* **Chen, Shi Hua[3] et al.** *and* **Wu, Xiao Qun et al.**
Xu, Daolin *see* **Wen, GuiLin et al., 2004d:93066**
Xu, Wenbo *see* **Cai, Chaohong et al., 2004a:93040**
Xu, Zhen Yuan[2] *see* **Cai, Chaohong et al., 2004a:93040**
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Yang, Guo Wu (*with* Cheng, Dai Zhan) Structure of n-th order nonlinear systems possessing rotation symmetry. (Chinese. English and Chinese summaries) **2004k:93067**
Yasuda, Kazunori *see* **Zhai, Guisheng et al.**
Ye, Hua Wen (*with* Dai, Guan Zhong; Wang, Hong[5]) Notes on Sontag-type control. (Chinese. English and Chinese summaries)
Yin, Ming Hui *see* **Zou, Yun et al.**
Yu, Ming Hui *see* **Wu, Xiao Qun et al.**
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Açikmeşe, Ahmet Behçet (*with* Corless, Martin) Robust tracking and disturbance rejection of bounded rate signals for uncertain/non-linear systems. (English summary) **2004g:93137**
Ailon, Amit *see* **Gil', Michael Iosif, 2004c:93058**
Aĭsagaliev, S. A. (*with* Ospanova, M. K.; Zlobina, E. B.) The embedding principle for the problem of the optimal control of ordinary differential equations with fixed trajectory ends in the presence of phase and integral constraints. I. (Russian) **2004d:49049**
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Allgöwer, Frank *see* **Findeisen, Rolf et al., 2004c:93091** *and* **2004j:93071**
Altafini, Claudio (*with* Frezza, Ruggero) Motion on submanifolds of noninvariant holonomic constraints for a kinematic control system evolving on a matrix Lie group. (English summary) **2004i:93124**
Astolfi, Alessandro *see* **Ortega, Romeo et al., 2004i:93100**
Ayadi, Mounir *see* **Rotella, Frédéric et al., 2004a:93031**
(Baillieul, John) *see* **New directions on nonlinear control**
Balabanov, A. *see* **Kondrat'ev, G. V., 2004d:93112**
Banks, S. P. *see* **McCaffrey, David Charles, 2004f:93111** *and* **Lu, Xiao Yun[2], 2004g:93035**
Bao, Jun-dong *see* **Luo, Qi et al.**
Barbot, J.-P. *see* **Hamzi, Boumediene et al., 2004f:93082**
Bartolini, Giorgio (*with* Ferrara, Antonella; Giacomini, Luisa) A switching controller for systems with hard uncertainties. (English summary) **2004h:93153**
Başar, Tamer *see* **Melody, James et al., 2004b:93018**
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Billings, Stephen A. *see* **Wei, Hua-Liang et al.**
(Bloch, Anthony M.) *see* **New directions on nonlinear control**
Bonnard, Bernard (*with* Chyba, Monique) ★ Singular trajectories and their role in control theory. **2004f:93001**
(Borges, Carlos F.) *see* **New trends in nonlinear dynamics and control, and their applications, 2004g:93009**
Brandão, A. J. V. *see* **Silva, Geraldo N. et al., 2004d:49054**
Bu, Chun Xia *see* **Bi, Wei Ping et al.** *and* **Yu, Ji Min et al.**
Bullo, Francesco *see* **Melody, James et al., 2004b:93018** *and* **Cerven, W. Todd, 2004b:93091**
Calafiore, Giuseppe Set simulations for quadratic systems. (English summary) **2004c:93071**
Califano, C. (*with* Monaco, Salvatore; Normand-Cyrot, D.) On the observer design in discrete-time. (English summary) **2004h:93024**
Cariñena, José F. (*with* Ramos, Arturo) Applications of Lie systems in quantum mechanics and control theory. (English summary) **2004h:34016**
Carrillo, Francisco Javier *see* **Rotella, Frédéric et al., 2004a:93031**
Casavola, Alessandro (*with* Famularo, Domenico; Franzè, Giuseppe) Predictive control of constrained nonlinear systems via LPV linear embeddings. (English summary) **2004c:93042**
Cerven, W. Todd (*with* Bullo, Francesco) Constructive controllability algorithms for motion planning and optimization. (English summary) **2004b:93091**
Chacón, Ricardo *see* **Tereshko, Valeriĭ M. et al.**
Chandra, R. S. *see* **Krishnamurthy, Prashanth et al., 2004i:93025**
Chang, Wook (*with* Park, Jin Bae; Joo, Young Hoon; Chen, Guanrong) Static output-feedback fuzzy controller for Chen's chaotic system with uncertainties. (English summary) **2004c:93065**
Chapman, Michael J. (*with* Godfrey, Keith R.; Chappell, Michael J.; Evans, Neil D.) Structural identifiability of non-linear systems using linear/non-linear splitting. (English summary) **2004d:93030**
Chappell, Michael J. *see* **Chapman, Michael J. et al., 2004d:93030**
Chellaboina, Vijaya-Sekhar (*with* Haddad, Wassim M.) Exponentially dissipative nonlinear dynamical systems: a nonlinear extension of strict positive realness. **2004i:93151**
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Chen, Ben M. (*with* Lee, Tong Heng; Peng, Kemao; Venkataramanan, V.) Composite nonlinear feedback control for linear systems with input saturation: theory and an application. (English summary) **2004b:93059**
Chen, Bor-Sen *see* **Lee, Ti-Chung, 2004c:93079**
Chen, Guanrong *see* **Lü, Jinhu et al., 2004b:37059**; **Chang, Wook et al., 2004c:93065**; **Lu, Zhao et al., 2004d:93115**; **Li, Chang-Pin, 2004f:37045**; **Bifurcation control, 2004f:93004**; **Jiang, Guo-Ping et al., 2004i:93156**; **Xia, Xiao Hua et al., 2004i:94072**; **Zheng, Yong Ai et al., 2004j:37061**; **2004m:37064**; **Liao, Xiao Xin, 2004j:93106** *and* **Chaos control and synchronization**
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Chen, Min-Shin *see* **Hwang, Yean-Ren et al., 2004b:93051**
Chen, Qi-hong *see* **Fei, Shumin et al.**
Chen, Shi Gang *see* **Li, Wei[14] et al.**
Chen, Shi Hua[3] (*with* Wang, Feng; Wang, Chang Ping[2]) Synchronizing strict-feedback and general strict-feedback chaotic systems via a single controller. (English summary) **2004j:37048**
Chen, Wei Tian (*with* Xu, Cheng Xian) Adaptive nonlinear control with partial overparametrization. (English summary) **2004g:93090**
Chen, Yu Dong (*with* Weng, Zheng Xin; Shi, Song Jiao) Reliable H^∞ control for affine nonlinear systems. (Chinese. English and Chinese summaries) **2004e:93035**
Chen, Yushu S. *see* **Liang, Jian Shu et al.**
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Chen, Zhiyong (*with* Huang, Jie[1]) Robust output regulation of singular nonlinear systems. (English summary) **2004i:93044**
— (*with* Huang, Jie[1]) Solution of output regulation of singular nonlinear systems by normal output feedback. (English summary) **2004c:93088**
Cheng, Dai Zhan (*with* Tarn, Tzyh-Jong; Spurgeon, Sarah K.) On the design of output regulators for nonlinear systems. (English summary) **2004f:93051**
— (*with* Zhang, Li Jun) Generalized normal form and stabilization of non-linear systems. (English summary) **2004g:93123**
Cheng, Zhao Lin *see* **Wang, Xing Ping et al.**
Chernykh, German A. *see* **Kunin, Isaak A. et al., 2004b:37058**
Choi, Chong-Ho (*with* Jeong, Gu-Min) Perfect tracking for maximum-phase nonlinear systems by iterative learning control. (English summary) **2004a:93084**
Choi, Q-Heung *see* **Sakthivel, R., 2004m:93017**
Christofides, Panagiotis D. *see* **El-Farra, Nael H., 2004j:93092**
Chyba, Monique (*with* Leonard, N. E.; Sontag, Eduardo D.) Singular trajectories in multi-input time-optimal problems: application to controlled mechanical systems. (English summary) **2004a:49028**
— *see also* **Bonnard, Bernard, 2004f:93001**
Claude, Daniel *see* **Laroche, Béatrice, 2004k:92031**
Cloutier, James R. *see* **Shamma, Jeff S., 2004a:93078** *and* **Sznaier, Mario et al., 2004f:49012**
Cocquempot, Vincent *see* **Jiang, Bin et al., 2004m:93133**

Colonius, Fritz (*with* Spadini, Marco) Uniqueness of local control sets. (English summary) **2004f:93010**
Corless, Martin *see* **Açikmeşe, Ahmet Behçet**, **2004g:93137**
D'Alessandro, Domenico Uniform finite generation of compact Lie groups. (English summary) **2004j:22007**
Darbha, Swaroop (*with* Rajagopal, Kumbakonam R.) Aggregation of a class of large-scale, interconnected, nonlinear dynamical systems. (English summary)
Deng, Fei-qi *see* **Luo, Qi et al.**
Deng, Xiao-ming (*with* Lu, Jun An) Bang band control of unified chaotic system. (English summary)
De Persis, Claudio (*with* De Santis, Raffaella; Morse, A. Stephen) Switched nonlinear systems with state-dependent dwell-time. (English summary) **2004h:93177**
De Santis, Alberto *see* **Battilotti, Stefano**, **2004m:93135**
De Santis, Raffaella *see* **De Persis, Claudio et al.**, **2004h:93177**
Deutscher, Joachim A linear differential operator approach to flatness based tracking for linear and non-linear systems. (English summary) **2004d:93107**
Ding, Bao-Cang (*with* Li, Shao Yuan[2]; Xi, Yu Geng) Stability analysis of generalized predictive control with input nonlinearity based-on Popov's theorem. (English and Chinese summaries)
Ding, Zhengtao *see* **Ye, Xu Dong**
Doebeli, Michael Controlling chaos in systems of coupled maps with long-range interactions. (English summary) (*see* **2004i:00015**)
Du, Xiao-Ning *see* **Li, Shao Yuan[2] et al.**, **2004h:93115**
Echeverría-Enríquez, Arturo (*with* Marín-Solano, Jesús; Muñoz-Lecanda, Miguel C.; Román-Roy, Narciso) Geometric reduction in optimal control theory with symmetries. (English summary) **2004h:49037**
El-Farra, Nael H. (*with* Christofides, Panagiotis D.) Robust inverse optimal control laws for nonlinear systems. (English summary) **2004j:93092**
Elia, Nicola *see* **Liu, Jialing**, **2004m:93110**
Er, Meng Joo *see* **Gao, Yang[3]**
Evans, Neil D. *see* **Chapman, Michael J. et al.**, **2004d:93030**
Famularo, Domenico *see* **Casavola, Alessandro et al.**, **2004c:93042**
Fan, Qi Fu (*with* Shi, Song Jiao) On well-posedness of PWM control system. (Chinese. English and Chinese summaries)
Fang, Jian'an (*with* Gu, Guoxiang; Liu, Kang-Zhi) Stability analysis for nonlinear feedback control systems with linear actuators. (English summary) **2004b:93110**
Fang, Jin-Qing (*with* Bi, Qiao; Ruda, H. E.) Anticontrol of quantum chaos in Hamiltonian systems. (English summary)
Farghaly, Ahmed A.-R. *see* **Mahmoud, Gamal M.**
Fedotov, Andrey Anatolievich *see* **Patsko, V. S. et al.**, **2004m:93011**
Fei, Shumin (*with* Shen, Jie[3]; Chen, Qi-hong) A novel asymptotic stabilizability switching control strategy for linear switched systems. (English summary)
Feki, Moez A result on the stabilization of nonlinear systems using state detection. (English summary) **2004c:93089**
Ferrante, Augusto *see* **Beghi, Alessandro et al.**, **2004e:81019**
Ferrara, Antonella *see* **Bartolini, Giorgio et al.**, **2004h:93153**
Findeisen, Rolf (*with* Imsland, Lars; Allgöwer, Frank; Foss, Bjarne A.) Towards a sampled-data theory for nonlinear model predictive control. (English summary) **2004j:93071**
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Flanagan, Éanna É. Higher-order gravity theories and scalar-tensor theories. (English summary) **2004j:83088**
Fliegner, T. (*with* Logemann, Hartmut; Ryan, E. P.) Adaptive low-gain integral control of linear systems with input and output nonlinearities. (English summary) **2004g:93092**
Fomichev, V. V. *see* **Korovin, S. K.**, **2004a:93017**
Fong, I-Kong *see* **Hsu, Chih-Chin**
Fontes, Fernando A. C. C. (*with* Magni, Lalo) Min-max model predictive control of nonlinear systems using discontinuous feedbacks. (English summary) **2004j:93055**
Foss, Bjarne A. *see* **Findeisen, Rolf et al.**, **2004c:93091**; **2004j:93071** *and* **Imsland, Lars**, **2004h:93161**
Frangos, C. (*with* Yavin, Y.) Point-to-point control for nonlinear systems. (English summary) **2004i:93125**
Franzè, Giuseppe *see* **Casavola, Alessandro et al.**, **2004c:93042**
French, M. *see* **Beleznay, F.**, **2004i:93096** *and* **Xie, Chengkang**, **2004k:93049**
Frezza, Ruggero *see* **Altafini, Claudio**, **2004i:93124**
Fridman, Leonid M. (*with* Strygin, V. V.; Polyakov, A. E.) Stabilization of amplitude of oscillations via relay delay control. (English summary) **2004c:93092**
Gai, Ru Dong *see* **Xia, Xiao Hua et al.**, **2004i:94072**
Galperin, Efim A. Some generalizations of Lyapunov's approach to stability and control. (English summary) **2004e:34084**
Gao, Yang[3] (*with* Er, Meng Joo) Modelling, control, and stability analysis of non-linear systems using generalized fuzzy neural networks. (English summary)
García, Rafael A. *see* **Mancilla-Aguilar, J. L.**
Ge, Shuzhi Sam (*with* Wang, Jing[7]) Robust adaptive tracking for time-varying uncertain nonlinear systems with unknown control coefficients. (English summary) **2004g:93140**
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— *see also* **Sun, Zhendong**
Gelig, A. Kh. Stability in the large of nonlinear sampled-data systems. (English summary) **2004i:93106**
Genesio, Roberto *see* **Bianchini, Gianni et al.**, **2004j:93036** *and* **Basso, Michele**, **2004k:37096**
(Ghosh, Jayati) *see* **Lucibello, Pasquale**
Giacomini, Luisa *see* **Bartolini, Giorgio et al.**, **2004h:93153**
Giannakopoulos, Fotios (*with* Pliete, Karin) Closed trajectories in planar relay feedback systems. (English summary) **2004c:34138**
Gil', Michael Iosif (*with* Ailon, Amit) The input-output version of the Aizerman-Myshkis problem for retarded systems. (English summary) **2004c:93058**
Glumineau, A. *see* **Souleiman, I. et al.**, **2004i:93066**
Godfrey, Keith R. *see* **Chapman, Michael J. et al.**, **2004d:93030**
Goebel, Rafal (*with* Rockafellar, R. T.) Generalized conjugacy in Hamiltonian-Jacobi theory for fully convex Lagrangians. (English summary) **2004b:49063**
Grammel, G. Controllability of product systems. (English summary) **2004e:93013**
Grimm, Gene (*with* Hatfield, Jay; Postlethwaite, Ian; Teel, Andrew R.; Turner, Matthew C.; Zaccarian, Luca) Antiwindup for stable linear systems with input saturation: an LMI-based synthesis. (English summary) **2004e:93076**
Grizzle, J. W. *see* **Kang, Jun-Mo**, **2004b:93092**
Gruyitch, Ly. T. Consistent Lyapunov methodology: non-differentiable non-linear systems. (English summary) **2004d:34105**
Gu, En Guo *see* **Ruan, Jiong et al.**
Gu, Guoxiang *see* **Fang, Jian'an et al.**, **2004b:93110**
Gui, Wei Hua *see* **Liu, Biyu**
Guo, Yi *see* **Hill, David John et al.**, **(2004f:93004)**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar; Oh, JinHyoung) Linear controller analysis and design for systems with input hystereses nonlinearities. (English summary) **2004i:93061**
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Hamzi, Boumediene (*with* Barbot, J.-P.; Monaco, Salvatore; Normand-Cyrot, D.) Nonlinear discrete-time control of systems with a Naimark-Sacker bifurcation. (English summary) **2004f:93082**
Han, Zheng Zhi *see* **Chen, Mao Yin et al.**; **Zhu, Fang Lai** *and* **Chen, Liang**
Harb, Ahmad M. (*with* Zaher, Ashraf A.) Nonlinear control of permanent magnet stepper motors. (English summary)
Hatfield, Jay *see* **Grimm, Gene et al.**, **2004e:93076**
He, Han Lin *see* **Wang, Zhong Sheng et al.**
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— *see also* **Bifurcation control**, **2004f:93004**
Hill, Desmond L. Control of observable chaotic dynamical systems using nonlinear approximations. (English summary)
Ho, Daniel W. C. *see* **Lu, Guo Ping**, **2004g:93127**
Hou, Xia *see* **Pan, Xiao Ning et al.**
How, Jonathan P. *see* **Rodrigues, Luis**, **2004f:93055**
Hsu, Chih-Chin (*with* Fong, I-Kong) Ultimate boundedness control of linear systems with band-bounded nonlinear actuators and additive measurement noise. (English summary)
Hsu, Liu *see* **Ortega, Romeo et al.**, **2004i:93100**
Hu, Shou Song *see* **Pan, Xiao Ning et al.**
Hu, Tingshu (*with* Lin, Zongli; Shamash, Yacov) Semi-global stabilization with guaranteed regional performance of linear systems subject to actuator saturation. (English summary)
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Hu, Yun An (*with* Koroleva, Olga I.; Krstić, Miroslav) Nonlinear control of mine ventilation networks. (English summary) **2004h:93135**
Huang, Biao *see* **Murshed, Akm M. et al.**
Huang, Changshui *see* **Sun, Ji Tao et al.**
Huang, Jie[1] On the solvability of the regulator equations for a class of nonlinear systems. (English summary) **2004i:93062**
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Huang, Qing Dao (*with* Zhu, Wen Zhuang; Wang, Guo Ming) Controllability of second-order nonlinear systems with three-point boundary values. (Chinese. English and Chinese summaries)
Huang, Shoudong (*with* James, Matthew R.) l^∞-bounded robustness for nonlinear systems: analysis and synthesis. (English summary) **2004h:93051**
Huang, Xianqing *see* **Lin, Wei[2] et al.**, **2004i:93157**
Hwang, Yean-Ren (*with* Chen, Min-Shin; Wu, Tzuyin) Division controllers for homogeneous dyadic bilinear systems. (English summary) **2004b:93051**
Imsland, Lars (*with* Foss, Bjarne A.) State feedback set stabilization for a class of nonlinear systems. (English summary) **2004h:93161**
— *see also* **Findeisen, Rolf et al.**, **2004c:93091** *and* **2004j:93071**
James, Matthew R. *see* **Huang, Shoudong**, **2004h:93051**
Janczak, Andrzej Neural network approach for identification of Hammerstein systems. (English summary)
Jayaraman, V. K. *see* **Kulkarni, Abhijit et al.**
Jeong, Gu-Min *see* **Choi, Chong-Ho**, **2004a:93084**
Jerbi, Hamadi Global feedback stabilization of new class of bilinear systems. (English summary)
— On the stabilizability of homogeneous systems of odd degree. (English summary) **2004a:93073**
Ji, Hai Bo *see* **Wang, Jun[8] et al.**, **2004a:93050**
Jiang, Bin (*with* Staroświecki, Marcel; Cocquempot, Vincent) Fault diagnosis based on adaptive observer for a class of non-linear systems with unknown parameters. (English summary) **2004m:93133**
Jiang, Guo-Ping (*with* Zheng, Wei Xing[1]; Chen, Guanrong) Global chaos synchronization with channel time-delay. (English summary) **2004i:93156**
Jiang, Zhong-Ping (*with* Wang, Yuan[2]) A converse Lyapunov theorem for discrete-time systems with disturbances. (English summary) **2004g:93109**
Jiménez Gallegos, Carlos *see* **Poznyak, A. S. et al.**, **2004i:93030**
Johansson, Mikael ★ Piecewise linear control systems. **2004d:93002**
Jönsson, Ulf T. (*with* Kao, Chung-Yao; Megretskiĭ, A. V.) Analysis of periodically forced uncertain feedback systems. (English summary) **2004h:93041**
Joo, Young Hoon *see* **Chang, Wook et al.**, **2004c:93065**
Kanchanasaratool, Narongsak (*with* Williamson, Darrell) Motion control of a tensegrity platform. (English summary) **2004k:93091**
Kang, Jun-Mo (*with* Grizzle, J. W.) Dynamic control of a SI engine with variable intake valve timing. (English summary) **2004b:93092**
Kang, Wei (*with* Xiao, MingQing; Tall, Issa Amadou) Controllability and local accessibility—a normal form approach. (English summary) **2004j:93010**
— *see also* **Krener, Arthur J.**, **2004d:93056** *and* **New trends in nonlinear dynamics and control, and their applications**, **2004g:93009**
Kao, Chung-Yao *see* **Jönsson, Ulf T. et al.**, **2004h:93041**

Khaĭlov, E. N. The attainability set of a homogeneous bilinear system with quasi-commuting matrices. (Russian. Russian summary) **2004k:93005**
Khan, K. H. *see* **Rehman, Fazal-Ur, 2004e:93019**
Khlyustov, K. V. *see* **Zelikina, L. F. et al., 2004e:49003**
Khorrami, F. *see* **Krishnamurthy, Prashanth et al., 2004i:93025**
Klamka, Jerzy Constrained exact controllability of semilinear systems. (English summary) **2004g:93026**
Kondrat'ev, G. V. (*with* Balabanov, A.) Methods of solving of the optimal stabilization problem for stationary smooth control systems. II. Ending. (English summary) **2004d:93112**
Kong, Zhi Qiang *see* **Liu, Ding et al.**
Koroleva, Olga I. *see* **Hu, Yun An et al., 2004h:93135**
Korovin, S. K. (*with* Fomichev, V. V.) Asymptotic observers for bilinear systems on the plane. (Russian. Russian summary) **2004a:93017**
Kotta, Ülle (*with* Nõmm, Sven; Zinober, Alan S. I.) Classical state space realizability of input-output bilinear models. (English summary) **2004e:93024**
Krener, Arthur J. (*with* Kang, Wei) Locally convergent nonlinear observers. (English summary) **2004d:93056**
Krishnamurthy, Prashanth (*with* Khorrami, F.; Chandra, R. S.) Global high-gain-based observer and backstepping controller for generalized output-feedback canonical form. (English summary) **2004i:93025**
Krstić, Miroslav *see* **Hu, Yun An et al., 2004h:93135**
Kulkarni, Abhijit (*with* Jayaraman, V. K.; Kulkarni, B. D.) Control of chaotic dynamical systems using support vector machines. (English summary)
Kulkarni, B. D. *see* **Kulkarni, Abhijit et al.**
Kunin, B. *see* **Kunin, Isaak A. et al., 2004b:37058**
Kunin, Isaak A. (*with* Kunin, B.; Chernykh, German A.) Lorenz-type controlled pendulum. (English summary) **2004b:37058**
Kuperin, Yu. A. (*with* Pyatkin, D. A.) Two-dimensional chaos: the Baker map under control. (English and Russian summaries) **2004f:37044**
Kurdila, Andrew J. *see* **Prazenica, Richard J., 2004m:93034**
Lam, James *see* **Lin, Chong et al., 2004b:93095**
Lan, Weiyao (*with* Huang, Jie[1]) Semiglobal stabilization and output regulation of singular linear systems with input saturation. (English summary) **2004d:93113**
Laroche, Béatrice (*with* Claude, Daniel) Flatness-based control of PER protein oscillations in a *Drosophila* model. (English summary) **2004k:92031**
Larsson, Mats *see* **Hill, David John et al., (2004f:93004)**
Laval, Laurent (*with* M'Sirdi, Nacer K.) On stabilizing n-dimensional chaotic systems. (English summary) **2004b:93112**
Lee, Ching-I *see* **Chen, Hsien-Keng**
Lee, Ti-Chung (*with* Chen, Bor-Sen) A general stability criterion for time-varying systems using a modified detectability condition. (English summary) **2004c:93079**
Lee, Tong Heng *see* **Chen, Ben M. et al., 2004b:93059**; **Ge, Shuzhi Sam et al., 2004b:93073** *and* **Lin, Chong et al., 2004b:93095**
Lenci, Stefano (*with* Rega, Giuseppe) Optimal control of nonregular dynamics in a Duffing oscillator. (English summary)
— *see also* **Rega, Giuseppe**
Leonard, N. E. *see* **Chyba, Monique et al., 2004a:49028**
Leung, Andrew Y. T. *see* **Liang, Jian Shu et al.**
Li, Chang-Pin (*with* Chen, Guanrong) On a universal chaotification scheme in the sense of Li-Yorke. (English summary) **2004f:37045**
Li, Guangyong *see* **Ge, Shuzhi Sam et al., 2004b:93073**
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Li, Qingdu *see* **Yang, Xiao-Song et al.**
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Li, Wen Feng *see* **Wang, Ling[1] et al.**
Li, Yuan *see* **Wang, Wen Tao et al.**
Li, Yuanqing Tractability and stability of nonlinear singular systems. (English summary)
Li, Zhi[1] (*with* Shi, Song Jiao) Robust adaptive synchronization of Rossler and Chen chaotic systems via slide technique. (English summary) **2004d:93114**
Liang, Jian Shu (*with* Chen, Yushu S.; Leung, Andrew Y. T.) Robust control of periodic bifurcation solutions. (Chinese. English and Chinese summaries)
Liao, Xiao Xin (*with* Chen, Guanrong) On feedback-controlled synchronization of chaotic systems. (English summary) **2004j:93106**
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Lin, Chong (*with* Wang, Qing-Guo; Lee, Tong Heng; Lam, James) Local stability of limit cycles for time-delay relay-feedback systems. (English summary) **2004b:93095**
Lin, Lan *see* **Bi, Wei Ping et al.**
Lin, Wei[2] (*with* Qian, Chunjiang) Adaptive control of nonlinearly parameterized systems: a nonsmooth feedback framework. (English summary) **2004b:93074**
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Liu, Guo Yi *see* **Yang, Li[4] et al.**
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Liu, Julian Jianhua *see* **Wei, Hua-Liang et al.**
Liu, Kang-Zhi *see* **Fang, Jian'an et al., 2004b:93110**
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(Liu, Xinzhi) *see* **Chaos control and synchronization**
Liu, Zeng Rong *see* **Zheng, Yong Ai et al., 2004j:37061** *and* **Yang, Ling[2] et al.**
Liu, Zhi-Yuan *see* **Pei, Xin-Zhe et al.**
Loccufier, Mia *see* **Luyckx, Liesbeth et al., 2004e:93041**
Logemann, Hartmut *see* **Fliegner, T. et al., 2004g:93092**
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Lü, Jinhu (*with* Yu, Xinghuo; Chen, Guanrong) Generating chaotic attractors with multiple merged basins of attraction: a switching piecewise-linear control approach. (English summary) **2004b:37059**
Lu, Jun An *see* **Deng, Xiao-ming**
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Lu, Zhao (*with* Shieh, Leang-San; Chen, Guanrong) On robust control of uncertain chaotic systems: a sliding-mode synthesis via chaotic optimization. (English summary) **2004d:93115**
Lucibello, Pasquale Comments on: "Nonlinear repetitive control" [IEEE Trans. Automat. Control **45** (2000), no. 5, 949–954] by J. Ghosh and B. Paden. (English summary)
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Luo, Xiao-Shu (*with* Wang, Bing Hong[1]) Controlling hyper chaos with feedback of dynamical variables. (English summary)
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Lychak, M. M. Elements of chaos theory and its applications. (Russian. English, Russian and Ukrainian summaries) **2004f:37046**
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Lynch, S. Multistability, bistability and chaos control. (English summary) **2004d:37045**
Magni, Lalo *see* **Fontes, Fernando A. C. C., 2004j:93055**
Mahmoud, Gamal M. (*with* Farghaly, Ahmed A.-R.) Chaos control of chaotic limit cycles of real and complex van der Pol oscillators. (English summary)
Mahmoud, Magdi S. (*with* Zribi, Mohamed) Robust output feedback control for nonlinear systems including actuators. (English summary) **2004b:93122**
Maloum, A. *see* **Rapaport, A., 2004k:93018**
Mancilla-Aguilar, J. L. (*with* García, Rafael A.) On converse Lyapunov theorems for ISS and iISS switched nonlinear systems. (English summary)
Mao, Jian Min *see* **Yang, Ling[2] et al.**
Marchenko, Vladimir Matveevich (*with* Poddubnaya, O. N.) Representation of solutions of controlled hybrid systems. (Russian. English, Russian and Ukrainian summaries) **2004e:93052**
Marín-Solano, Jesús *see* **Echeverría-Enríquez, Arturo et al., 2004h:49037**
Martínez-Marín, T. *see* **Zufiría, Pedro J.**
McCaffrey, David Charles (*with* Banks, S. P.) Lagrangian manifolds and asymptotically optimal stabilizing feedback control. (English summary) **2004f:93111**
Megretskiĭ, A. V. *see* **Jönsson, Ulf T. et al., 2004h:93041**
Melody, James (*with* Başar, Tamer; Bullo, Francesco) On nonlinear controllability of homogeneous systems linear in control. (English summary) **2004b:93018**
Mezić, Igor Controllability, integrability and ergodicity. (English summary) **2004g:93028**
Monaco, Salvatore *see* **Hamzi, Boumediene et al., 2004f:93082** *and* **Califano, C. et al., 2004h:93024**
Morin, Pascal (*with* Samson, Claude) Practical stabilization of driftless systems on Lie groups: the transverse function approach. (English summary) **2004f:93124**
Morse, A. Stephen *see* **De Persis, Claudio et al., 2004h:93177**
M'Sirdi, Nacer K. *see* **Laval, Laurent, 2004b:93112**
Mu, Xiao Wu *see* **Bi, Wei Ping et al.**
Muñoz-Lecanda, Miguel C. *see* **Echeverría-Enríquez, Arturo et al., 2004h:49037**
Murshed, Akm M. (*with* Huang, Biao; Nandakumar, K.) Control of chaos in a convective loop system. (English summary)
Nandakumar, K. *see* **Murshed, Akm M. et al.**
Noldus, Erik *see* **Luyckx, Liesbeth et al., 2004e:93041**
Nõmm, Sven *see* **Kotta, Ülle et al., 2004e:93024**
Normand-Cyrot, D. *see* **Hamzi, Boumediene et al., 2004f:93082** *and* **Califano, C. et al., 2004h:93024**
Oh, JinHyoung *see* **Haddad, Wassim M. et al., 2004i:93061**
Ortega, Romeo (*with* Hsu, Liu; Astolfi, Alessandro) Immersion and invariance adaptive control of linear multivariable systems. (English summary) **2004i:93100**
Ospanova, M. K. *see* **Aĭsagaliev, S. A. et al., 2004d:49049** *and* **2004f:49043**
(Paden, Brad) *see* **Lucibello, Pasquale**
Pan, Xiao Ning (*with* Hu, Shou Song; Hou, Xia) Neural network adaptive H_∞ tracking control for uncertain nonlinear systems. (Chinese. English and Chinese summaries)
Pappas, George J. (*with* Simić, Slobodan N.) Consistent abstractions of affine control systems. (English summary) **2004g:93011**
Parenti, Alessandro *see* **Bianchini, Gianni et al., 2004j:93036**
Park, Jin Bae *see* **Chang, Wook et al., 2004c:93065**
Păstrăvanu, Octavian (*with* Voicu, Mihail) Dynamics of a class of uncertain nonlinear systems under flow-invariance constraints. (English summary) **2004b:34130**
Patsko, V. S. (*with* Pyatko, S. G.; Fedotov, Andrey Anatolievich) The three-dimensional reachability set of a nonlinear control system. (Russian. Russian summary) **2004m:93011**
Pavon, Michele *see* **Beghi, Alessandro et al., 2004e:81019**
Pei, Run *see* **Pei, Xin-Zhe et al.**
Pei, Xin-Zhe (*with* Liu, Zhi-Yuan; Pei, Run) Robust trajectory tracking controller design for mobile robots with bounded input. (English and Chinese summaries)
Peng, Kemao *see* **Chen, Ben M. et al., 2004b:93059**

Perez, Jose P. *see* **Sanchez, Edgar N. et al.**, (2004e:93002)
Pickl, Stefan An iterative solution to the nonlinear time-discrete TEM model—the occurrence of chaos and a control theoretic algorithmic approach. (English summary) (*see* **2004d:00014**)
Pliete, Karin *see* **Giannakopoulos, Fotios**, **2004c:34138**
Poddubnaya, O. N. *see* **Marchenko, Vladimir Matveevich**, **2004e:93052**
Polyakov, A. E. *see* **Fridman, Leonid M. et al.**, **2004c:93092**
Postlethwaite, Ian *see* **Grimm, Gene et al.**, **2004e:93076**
Pothin, Richard Disturbance decoupling for a class of nonlinear MIMO systems by static measurement feedback. (English summary)
— Block decoupling of non-linear systems by static measurement feedback. (English summary) **2004b:93066**
Poznyak, A. S. (*with* Shtessel′, Yu. B.; Jiménez Gallegos, Carlos) Min-max sliding-mode control for multimodel linear time varying systems. (English summary) **2004i:93030**
Prazenica, Richard J. (*with* Kurdila, Andrew J.) Volterra kernel identification using triangular wavelets. (English summary) **2004m:93034**
Preciado, Victor *see* **Tereshko, Valerii M. et al.**
Pyatkin, D. A. *see* **Kuperin, Yu. A.**, **2004f:37044**
Pyatko, S. G. *see* **Patsko, V. S. et al.**, **2004m:93011**
Qi, Xiao Bin (*with* Zhang, Ling) Rank criterion method for invertibility of multivariable affine nonlinear systems. (Chinese. English and Chinese summaries)
Qian, Chunjiang (*with* Lin, Wei[2]) Non-Lipschitz continuous stabilizers for nonlinear systems with uncontrollable unstable linearization. (English summary)
— *see also* **Lin, Wei[2] et al.**, **2004b:93074** *and* **2004i:93157**
Rajagopal, Kumbakonam R. *see* **Darbha, Swaroop**
Ramos, Arturo *see* **Cariñena, José F.**, **2004h:34016**
Rapaport, A. (*with* Maloum, A.) Design of exponential observers for nonlinear systems by embedding. (English summary) **2004k:93018**
Răsvan, Vladimir "Almost linear" behaviour in systems with sector restricted nonlinearities. (English summary)
Rega, Giuseppe (*with* Lenci, Stefano) Nonsmooth dynamics, bifurcation and control in an impact system. (English summary)
— *see also* **Lenci, Stefano**
Rehman, Fazal-Ur (*with* Khan, K. H.) Controllability and observability of non-linear systems using fixed point theory. (English summary) **2004e:93019**
Ren, Hai Peng *see* **Liu, Ding et al.**
Riaza, Ricardo Double SIB points in differential-algebraic systems. (English summary) **2004g:34068**
Ricalde, Luis J. *see* **Sanchez, Edgar N. et al.**, (2004e:93002)
Rockafellar, R. T. *see* **Goebel, Rafal**, **2004b:49063**
Rodrigues, Luis (*with* How, Jonathan P.) Observer-based control of piecewise-affine systems. (English summary) **2004f:93055**
Rojas-Medar, Marko A. *see* **Silva, Geraldo N. et al.**, **2004d:49054**
Román-Roy, Narciso *see* **Echeverría-Enríquez, Arturo et al.**, **2004h:49037**
Rotella, Frédéric (*with* Carrillo, Francisco Javier; Ayadi, Mounir) Polynomial controller design based on flatness. (English summary) **2004a:93031**
Ruan, Jiong (*with* Gu, En Guo; Zhao, Wei Rui) Nonlinear measures and its application to the chaos control. (English summary)
Ruda, H. E. *see* **Fang, Jin-Qing et al.**
Rudolph, Joachim (*with* Winkler, J.) A generalized flatness concept for nonlinear delay systems: motivation by chemical reactor models with constant or input dependent delays. (English summary) **2004k:93075**
— *see also* **Lynch, A. F.**, **2004h:93100**
Ryan, E. P. *see* **Fliegner, T. et al.**, **2004g:93092**
Saenz, Leonardo (*with* Suárez, Rodolfo) A combinatorial approach to the generalized Baker-Campbell-Hausdorff-Dynkin formula. (English summary) **2004g:34104**
Sakthivel, R. (*with* Choi, Q-Heung) A study on controllability of semilinear integrodifferential systems in Banach spaces. (En$_{\underline{k}}$'ish summary) **2004m:93017**
Samson, Claude *see* **Morin, Pascal**, **2004f:93124**
Sanchez, Edgar N. (*with* Perez, Jose P.; Ricalde, Luis J.) Neural network design for chaos synchronization. (English summary) (*see* **2004e:93002**)
Sarychev, Andrei V. Higher-order techniques for some problems of nonlinear control. (English summary) **2004c:49047**
Schreier, G. *see* **Souleiman, I. et al.**, **2004i:93066**
Seo, Jin H. *see* **Shim, Hyungbo et al.**
Shamash, Yacov *see* **Hu, Tingshu et al.**
Shamma, Jeff S. (*with* Cloutier, James R.) Existence of SDRE stabilizing feedback. (English summary) **2004a:93078**
Shang, Yun *see* **Chen, Mao Yin et al.**
Shen, Jie[3] *see* **Fei, Shumin et al.**
Shi, Song Jiao *see* **Li, Zhi[1]**, **2004d:93114**; **Chen, Yu Dong et al.**, **2004e:93035** *and* **Fan, Qi Fu**
Shieh, Leang-San *see* **Lu, Zhao et al.**, **2004d:93115**
Shim, Hyungbo (*with* Son, Young I.; Seo, Jin H.) Semi-global observer for multi-output nonlinear systems. (English summary)
Shtessel′, Yu. B. *see* **Poznyak, A. S. et al.**, **2004i:93030**
Silva, Geraldo N. (*with* Litvinchev, I. S.; Rojas-Medar, Marko A.; Brandão, A. J. V.) State constraints in optimal impulsive controls. (English summary) **2004d:49054**
Simić, Slobodan N. *see* **Pappas, George J.**, **2004g:93011**
Sinha, Sudeshna Controlling chaos with threshold mechanisms. (English summary) **2004h:37046**
Sokolov, V. F. Adaptive suboptimal tracking for the first-order plant with Lipschitz uncertainty. (English summary) **2004b:93076**
Son, Young I. *see* **Shim, Hyungbo et al.**
Sontag, Eduardo D. *see* **Chyba, Monique et al.**, **2004a:49028**
Soroush, Masoud[1] *see* **Valluri, Sairam**, **2004c:93041**
Souleiman, I. (*with* Glumineau, A.; Schreier, G.) Direct transformation of nonlinear systems into state affine MISO form for observer design. (English summary) **2004i:93066**
Spadini, Marco *see* **Colonius, Fritz**, **2004f:93010**
Sparks, Rebecca On bounds for the existence of a bistable controller. (English summary) **2004i:93162**
Spurgeon, Sarah K. *see* **Cheng, Dai Zhan et al.**, **2004f:93051**
Staroświecki, Marcel *see* **Jiang, Bin et al.**, **2004m:93133**
Stefanovski, Jovan Feedback affinization of nonlinear control systems. (English summary) **2004m:93025**
Strygin, V. V. *see* **Fridman, Leonid M. et al.**, **2004c:93092**
Su, Juhng-Perng *see* **Wang, Chun-Chieh**, **2004c:93025**
Suárez, Rodolfo *see* **Sznaier, Mario et al.**, **2004f:49012** *and* **Saenz, Leonardo**, **2004g:34104**
Sun, Hong Fei (*with* Zhao, Jun[2]) Decentralized hybrid feedback stabilization for a class of switched composite system. (Chinese. English and Chinese summaries)
Sun, Ji Tao (*with* Zhang, Yinping; Huang, Changshui) Robust fault-tolerant feedback control for uncertain nonlinear Lur′e systems. (English summary)
— (*with* Zhang, Yinping) Impulsive control of Rössler systems. (English summary) **2004b:93058**
Sun, Zhendong (*with* Ge, Shuzhi Sam) Dynamic output feedback stabilization of a class of switched linear systems. (English summary)
Sundarapandian, V. A relation between the output regulation and the observer design for nonlinear systems. (English summary) **2004a:93080**
— General observers for nonlinear systems. (English summary) **2004j:93021**
Suykens, Johan (*with* Yalçın, Mustak; Vandewalle, Joos) Chaotic systems synchronization. (English summary) (*see* **2004e:93002**)
Sznaier, Mario (*with* Suárez, Rodolfo; Cloutier, James R.) Suboptimal control of constrained nonlinear systems via receding horizon constrained control Lyapunov functions. (English summary) **2004f:49012**
Tall, Issa Amadou *see* **Kang, Wei et al.**, **2004j:93010**
Tanaka, Kazuo[1] *see* **Wang, Hua O. et al.**
Tang, Wallace Kit-Sang Bifurcation and chaos in simple nonlinear feedback control systems. (English summary) (*see* **2004f:93004**)
Tang, Yun *see* **Yang, Xiao-Song et al.**
Tao, Gang *see* **Taware, Avinash**, **2004k:93002**
Tarn, Tzyh-Jong *see* **Cheng, Dai Zhan et al.**, **2004f:93051** *and* **Zhang, Ming Jun[2]**, **2004j:93084**
Taware, Avinash (*with* Tao, Gang) ★ Control of sandwich nonlinear systems. **2004k:93002**
Teel, Andrew R. *see* **Grimm, Gene et al.**, **2004e:93076**
Tereshko, Valerii M. (*with* Chacón, Ricardo; Preciado, Victor) Controlling chaotic oscillators by altering their energy. (English summary)
Tesi, Alberto *see* **Bianchini, Gianni et al.**, **2004j:93036**
Tian, Li Xin *see* **Wang, Xuedi**
Tian, Yu Ping[1] (*with* Yu, Xinghuo) Time-delayed impulsive stabilization of unstable periodic orbits in chaotic hybrid systems. (English summary) (*see* **2004e:93002**)
Turner, Matthew C. *see* **Grimm, Gene et al.**, **2004e:93076**
Ushio, Toshimitsu *see* **Yamamoto, Shigeru[1]**, (**2004e:93002**)
Valluri, Sairam (*with* Soroush, Masoud[1]) A non-linear controller design method for processes with saturating actuators. (English summary) **2004c:93041**
Vandewalle, Joos *see* **Suykens, Johan et al.**, (**2004e:93002**)
Vasil′eva, E. V. Sign-constancy conditions for the response time derivative. (English summary) **2004e:49033**
Venkataramanan, V. *see* **Chen, Ben M. et al.**, **2004b:93059**
Vivalda, J.-C. On the genericity of the observability of uncontrolled discrete nonlinear systems. (English summary) **2004m:93022**
Voicu, Mihail *see* **Păstrăvanu, Octavian**, **2004b:34130**
Vörös, Jozef Parameter identification of Wiener systems with discontinuous nonlinearities. (English summary) **2004f:93133**
— Recursive identification of Hammerstein systems with discontinuous nonlinearities containing dead-zones. (English summary) **2004j:93031**
Wagg, David J. Adaptive control of nonlinear dynamical systems using a model reference approach. (English summary) **2004b:93077**
Wang, Bing Hong[1] *see* **Luo, Xiao-Shu**
Wang, Chang Ping[2] *see* **Chen, Shi Hua[3] et al.**, **2004j:37048**
Wang, Chun-Chieh (*with* Su, Juhng-Perng) Composite sliding mode control of chaotic systems with uncertainties. (English summary) **2004c:93025**
Wang, Feng *see* **Chen, Shi Hua[3] et al.**, **2004j:37048**
Wang, Guang-Rui *see* **Li, Wei[14] et al.**
Wang, Guo Ming *see* **Huang, Qing Dao et al.**
Wang, Hua O. (*with* Li, Jing; Tanaka, Kazuo[1]) T-S fuzzy model with linear rule consequence and PDC controller: a universal framework for nonlinear control systems. (English summary)
Wang, Jing[7] *see* **Ge, Shuzhi Sam**, **2004g:93140**
Wang, Jun[8] (*with* Ji, Hai Bo; Xi, Hong Sheng; Chen, Zhi Fu) Adaptive inverse optimal control for strict-feedback nonlinear systems. (Chinese. English and Chinese summaries) **2004a:93050**
Wang, Ling[1] (*with* Li, Wen Feng; Zheng, Da Zhong) Optimal design of controllers for non-minimum phase systems. (Chinese. English and Chinese summaries)
Wang, Qing-Guo *see* **Lin, Chong et al.**, **2004b:93095**
Wang, Rongdong Algebraic criteria for absolute stability. (English summary) **2004j:93113**
Wang, Wen Tao (*with* Li, Yuan; Liu, Xiao Ping[2]; Zhao, Jun[2]) Disturbance decoupling of nonlinear singular control systems. (Chinese. English and Chinese summaries)
— (*with* Li, Yuan; Liu, Xiao Ping[2]; Zhao, Jun[2]) Feedback realization of non-interacting control for nonlinear singular systems. (Chinese. English and Chinese summaries)
Wang, Xiaochang A. On static output feedback stabilization of systems with stable generalized zero dynamics. (English summary) **2004i:93163**
Wang, Xing Ping (*with* Zhu, Jian Dong; Cheng, Zhao Lin) Robust ISS stabilization of a class of nonlinear systems with uncertain input dynamics. (Chinese. English and Chinese summaries)
Wang, Xuedi (*with* Tian, Li Xin) Tracing control of chaos for the coupled dynamos dynamical system. (English summary)
Wang, You Yi[2] *see* **Hill, David John et al.**, (**2004f:93004**)
Wang, Yuan[2] *see* **Jiang, Zhong-Ping**, **2004g:93109**
Wang, Zhi Ming[3] (*with* Zheng, Yu Fan) Some qualitative properties of nonlinear discrete-time systems. (Chinese. English and Chinese summaries)
Wang, Zhong Sheng (*with* He, Han Lin; Liao, Xiao Xin) Adaptive robust tracking control

for a class of nonlinear systems. (English summary)
Wei, Hua-Liang (*with* Billings, Stephen A.; Liu, Julian Jianhua) Term and variable selection for non-linear system identification. (English summary)
Weng, Zheng Xin *see* **Chen, Yu Dong et al., 2004e:93035**
Williamson, Darrell *see* **Kanchanasaratool, Narongsak, 2004k:93091**
Winkler, J. *see* **Rudolph, Joachim, 2004k:93075**
Wu, Li Qiang *see* **Yu, Ji Min et al.**
Wu, Tie Jun *see* **Liu, Shan**
Wu, Tzuyin *see* **Hwang, Yean-Ren et al., 2004b:93051**
Xi, Hong Sheng *see* **Wang, Jun[8] et al., 2004a:93050**
Xi, Yu Geng *see* **Ding, Bao-Cang et al.**
Xia, Xiao Hua (*with* Gai, Ru Dong; Chen, Guanrong) Periodic orbits arising from delta-modulated feedback control. (English summary) **2004i:94072**
Xiao, MingQing *see* **New trends in nonlinear dynamics and control, and their applications, 2004g:93009; Kang, Wei et al., 2004g:93009** *and* **2004j:93010**
Xie, Chengkang (*with* French, M.) A performance comparison between two design techniques for non-linear output feedback control. (English summary) **2004k:93049**
Xu, Cheng Xian *see* **Chen, Wei Tian, 2004g:93090**
Yaghoobi, Hassan (*with* Abed, Eyad H.) Local feedback control of the Neimark-Sacker bifurcation. (English summary) **2004a:93036**
Yalçın, Mustak *see* **Suykens, Johan et al., (2004e:93002)**
Yamamoto, Shigeru[1] (*with* Ushio, Toshimitsu) Odd number limitation in delayed feedback control. (English summary) (*see* **2004e:93002**)
Yan, Jun-Juh Sliding mode control design for uncertain time-delay systems subjected to a class of nonlinear inputs. (English summary) **2004c:93026**
Yang, Li[4] (*with* Zhang, Qing Ling; Liu, Guo Yi) Lyapunov criteria for structural stability of a class of nonlinear singular systems. (Chinese. English and Chinese summaries)
Yang, Ling[2] (*with* Liu, Zeng Rong; Mao, Jian Min) Controlling hyperchaos in planar systems by adjusting parameters. (Chinese. English and Chinese summaries)
Yang, Qi-chang *see* **Zhao, Li-chun et al.**
Yang, Xiao-Song On the possibility of globally stabilizing invariant sets. (English summary) **2004j:93111**
— (*with* Tang, Yun; Li, Qingdu) Horseshoe in a two-scroll control system. (English summary)
Yavin, Y. *see* **Frangos, C., 2004i:93125**
Ye, Xu Dong (*with* Ding, Zhengtao) Robust tracking control of uncertain nonlinear systems with unknown control directions. (English summary)
Yu, Ji Min (*with* Wu, Li Qiang; Bu, Chun Xia) Almost disturbance decoupling for a class of higher-order nonlinear systems. (Chinese. English and Chinese summaries)
Yu, Pei[1] Bifurcation dynamics in control systems. (English summary) **2004j:37170**
Yu, Xinghuo *see* **Lü, Jinhu et al., 2004b:37059; Bifurcation control, 2004f:93004** *and* **Tian, Yu Ping[1], (2004e:93002)**
Zaccarian, Luca *see* **Grimm, Gene et al., 2004e:93076**
Zaher, Ashraf A. *see* **Harb, Ahmad M.**
Zelikin, M. I. *see* **Zelikina, L. F. et al., 2004e:49003**
Zelikina, L. F. (*with* Zelikin, M. I.; Khlyustov, K. V.) Singular stratified manifolds for involutive control systems. (Russian. Russian summary) **2004e:49003**
Zhang, Jin[5] *see* **Ge, Shuzhi Sam et al., 2004b:93073**
Zhang, Li Jun *see* **Cheng, Dai Zhan, 2004g:93123**
Zhang, Ling *see* **Qi, Xiao Bin**
Zhang, Ming Jun[2] (*with* Tarn, Tzyh-Jong) A hybrid switching control strategy for nonlinear and underactuated mechanical systems. (English summary) **2004j:93084**
Zhang, Qing Ling *see* **Zhao, Li-chun et al.** *and* **Yang, Li[4] et al.**
Zhang, Yinping *see* **Sun, Ji Tao et al., 2004b:93058**
Zhao, Jun[2] *see* **Sun, Hong Fei** *and* **Wang, Wen Tao et al.**
Zhao, Li-chun (*with* Zhang, Qing Ling; Yang, Qi-chang) Induction control of a two-species competitive system. (English and Chinese summaries)
Zhao, Wei Rui *see* **Ruan, Jiong et al.**
Zheng, Da Zhong *see* **Wang, Ling[1] et al.**
Zheng, Wei Xing[1] *see* **Jiang, Guo-Ping et al., 2004i:93156**
Zheng, Yong Ai (*with* Chen, Guanrong; Liu, Zeng Rong) On chaotification of discrete systems. (English summary) **2004j:37061**
— (*with* Chen, Guanrong) Single state-feedback chaotification of discrete dynamical systems. (English summary) **2004m:37064**
Zheng, Yu Fan *see* **Wang, Zhi Ming[3]**
Zhou, La Wu (*with* Zhu, Ying Hao) Closed-loop stability of a discrete system with saturated nonlinearity. (Chinese. English and Chinese summaries)
Zhu, Fang Lai (*with* Han, Zheng Zhi) A kind of exponential-convergence observer for nonlinear systems. (Chinese. English and Chinese summaries)
— (*with* Han, Zheng Zhi) Design of an adaptive observer for Lipschitz nonlinear systems. (Chinese. English and Chinese summaries)
Zhu, Jian Dong *see* **Wang, Xing Ping et al.**
Zhu, Quan Min *see* **Li, Shao Yuan[2] et al., 2004h:93115**
Zhu, Wen Zhuang *see* **Huang, Qing Dao et al.**
Zhu, Ying Hao *see* **Zhou, La Wu**
Zinober, Alan S. I. *see* **Kotta, Ülle et al., 2004e:93024**
Zlobina, E. B. *see* **Aĭsagaliev, S. A. et al., 2004d:49049** *and* **2004f:49043**
Zribi, Mohamed *see* **Mahmoud, Magdi S., 2004b:93122**
Zufiria, Pedro J. (*with* Martínez-Marín, T.) Improved optimal control methods based upon the adjoining cell mapping technique. (English summary)

Items listed otherwise than by author

Bifurcation control ★ Bifurcation control. **2004f:93004**
Chaos control and synchronization ★ Chaos control and synchronization.
Lecture Notes in Control and Information Sciences ★ Bifurcation control. **2004f:93004**
— ★ New trends in nonlinear dynamics and control, and their applications. **2004g:93009**
New directions on nonlinear control ★ New directions on nonlinear control.
New trends in nonlinear dynamics and control, and their applications ★ New trends in nonlinear dynamics and control, and their applications. **2004g:93009**

93C15 Systems governed by ordinary differential equations [see also 34H05]

Adamou-Mitiche, Amel B. H. (*with* Mitiche, Lahcène; Sima, Vasile) Descriptor systems approximation. (English summary)
Alamir, Mazen (*with* Marchand, Nicolas) Constrained minimum-time-oriented feedback control for the stabilization of nonholonomic systems in chained form. (English summary) **2004h:93094**
Angeles, Jorge *see* **Montagnier, Pierre et al., 2004m:93061**
Antoniou, George E. A DFT-based algorithm for n-order singular state space systems. (English and Lithuanian summaries)
Bacic, Marko (*with* Cannon, Mark; Kouvaritakis, Basil) Constrained control of SISO bilinear systems. (English summary) **2004g:93085**
Berdyshev, Yu. I. On a nonlinear control problem with several target sets. (Russian. English and Ukrainian summaries) **2004e:93047**
di Bernardo, Mario (*with* Garofalo, F.; Iannelli, Luigi; Vasca, Francesco) Bifurcations in piecewise-smooth feedback systems. (English summary) **2004f:93069**
Brogliato, Bernard Some perspectives on the analysis and control of complementarity systems. (English summary) **2004g:93086**
Brzobohaty, Jaromir *see* **Pospisil, Jiri et al., (2004h:93004)**
Cannon, Mark *see* **Bacic, Marko et al., 2004g:93085**
Chandra, Dinesh *see* **Singh, Vimal et al., 2004j:93063**
Chandra, R. S. *see* **D'Andrea, Raffaello et al., 2004m:93060**
D'Andrea, Raffaello (*with* Langbort, Cedric; Chandra, R. S.) A state space approach to control of interconnected systems. (English summary) **2004m:93060**
Della Dora, Jean (*with* Mirica-Ruse, Mihaela; Tournier, Evelyne) Hybrid systems and hybrid computation. I. Hybrid systems. (English summary) **2004j:93062**
Gałkowski, Krzysztof (*with* Rogers, Eric; Paszke, Wojciech; Owens, David H.) Linear repetitive process control theory applied to a physical example. (English summary)
Garofalo, F. *see* **di Bernardo, Mario et al., 2004f:93069**
Horska, Jana *see* **Pospisil, Jiri et al., (2004h:93004)**
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Ryan, E. P. *see* **Logemann, Hartmut, 2004a:34024**
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Xu, Tian Qun *see* **Chen, Yue Peng et al.**
Yan, Rui *see* **Xu, Jian-Xin, 2004b:93142**
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Zhang, Suo Chun *see* **Zheng, Zuo-huan et al., 2004j:37062**
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Lecture Notes in Control and Information Sciences *see* **Wang, Qing-Guo, 2004d:93003**

93C20 Systems governed by partial differential equations [see also 35B37]

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Hou, LiSheng *see* **Gunzburger, Max D. et al., (2004j:00016)**
Hsu, Sze-Bi *see* **Chen, Goong et al., (2004e:93002)**
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Johnson, Harry L. (*with* Russell, David L.) Boundary output determination for the internally actuated Euler-Bernoulli beam by transfer and Green function methods. (English summary) **2004j:93065**
Ju, Lili *see* **Gunzburger, Max D. et al., (2004j:00016)**
Kassara, K. Feedback spreading control under speed constraints. (English summary) **2004a:93048**
Klouček, Petr (*with* Reynolds, Daniel R.; Seidman, Thomas I.) On thermodynamic active control of shape memory alloy wires. (English summary) **2004i:93086**
Kobayashi, Toshihiro Boundary position feedback control of Kirchhoff's non-linear strings. (English summary) **2004k:93073**
Kokkonen, P. *see* **Tervo, J. et al., 2004j:93066**
Komornik, Vilmos (*with* Loreti, Paola; Vergara-Caffarelli, Giorgio) A comparative study of the control of two beam models. (English summary) **2004h:93099**
Krstić, Miroslav *see* **Balogh, Andras**
Kwun, Young Chel *see* **Choi, Jae Rong et al., 2004c:93057**
Lange, Horst *see* **Illner, Reinhard et al., 2004m:93064**
Lasiecka, Irena (*with* Triggiani, Roberto; Zhang, Xu[1]) Nonconservative Schrödinger equations with unobserved Neumann B.C.: global uniqueness and observability in one shot. **2004e:93048**
Lions, Jacques-Louis Results and conjectures for the control of Navier-Stokes equations. (English summary) **2004m:93065**
Littman, Walter *see* **Betelú, Santiago et al., 2004h:93097** *and* **Gulliver, Robert, 2004k:93072**
Liu, Ji Ke *see* **Xu, Jian Guo**
Liu, Kang Sheng (*with* Yamamoto, Masahiro; Zhang, Xu[1]) Observability inequalities by internal observation and their applications. (English summary) **2004b:93067**
Logemann, Hartmut (*with* Townley, Stuart) Adaptive low-gain integral control of multivariable well-posed linear systems. (English summary) **2004a:93049**
Lohéac, Jean-Pierre *see* **Brossard, Romain, 2004k:93068**
Loreti, Paola *see* **Komornik, Vilmos et al., 2004h:93099**
Luke, N. S. *see* **Banks, H. T. et al., 2004h:93096**
Lynch, A. F. (*with* Rudolph, Joachim) Flatness-based boundary control of a class of quasilinear parabolic distributed parameter systems. (English summary) **2004h:93100**
Micu, Sorin (*with* Ortega, Jaime H.; de Teresa, Luz) ε-insensitizing controls for pointwise observations of the heat equation. (English summary) **2004m:93066**
Moiseev, E. I. *see* **Il'in, Vladimir Aleksandrovich[1], 2004d:93068**
Murugavel, M. S. Murali *see* **Demetriou, Michael A.**
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Nihtilä, M. T. *see* **Tervo, J. et al., 2004j:93066**
Ochoa-Tapia, J. Alberto *see* **Álvarez-Ramírez, J. et al., 2004f:93070**
Ortega, Jaime H. *see* **Micu, Sorin et al., 2004m:93066**

Pandolfi, Luciano *see* **Fagnani, Fabio**, (2004d:49002)
Park, Jong Seo *see* **Choi, Jae Rong et al.**, 2004c:93057
Price, W. G. *see* **Xiong, Y. P. et al.**
Puebla, Hector *see* **Álvarez-Ramírez, J. et al.**, 2004f:93070
Reynolds, Daniel R. *see* **Klouček, Petr et al.**, 2004i:93086
Robertson, L. M., III (*with* Balas, M. J.) Stability analysis of controlled, partially-connected, distributed-parameter systems through perturbation methods. (English summary) **2004b:93068**
Rogers, Eric *see* **Veres, S. M. et al.**, 2004h:93101
Rosa, Ricardo M. S. Exact finite dimensional feedback control via inertial manifold theory with application to the Chafee-Infante equation. (English summary) **2004i:93087**
Rudolph, Joachim *see* **Lynch, A. F.**, 2004h:93100 *and* **Woittennek, Frank**, 2004j:93067
Russell, David L. *see* **Johnson, Harry L.**, 2004j:93065
Sano, Hideki Boundary control of a linear distributed parameter bioprocess. (English summary) **2004k:93074**
Seidman, Thomas I. *see* **Klouček, Petr et al.**, 2004i:93086
Shubov, V. I. *see* **Byrnes, Christopher I. et al.**, 2004k:93069
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Smaoui, Nejib (*with* Zribi, Mohamed) Controlling the dynamics of the Kuramoto-Sivashinsky equation. (English summary)
Smith, Cassandra J. *see* **Banks, H. T. et al.**, 2004h:93096
Stoyan, V. A. *see* **Skopetskiĭ, V. V.**
Teismann, Holger *see* **Illner, Reinhard et al.**, 2004m:93064
de Teresa, Luz *see* **Micu, Sorin et al.**, 2004m:93066
Tervo, J. (*with* Nihtilä, M. T.; Kokkonen, P.) On controllability, parametrization, and output tracking of a linearized bioreactor model. **2004j:93066**
Townley, Stuart *see* **Logemann, Hartmut**, 2004a:93049
Triggiani, Roberto *see* **Lasiecka, Irena et al.**, 2004e:93048
Tutty, O. R. *see* **Veres, S. M. et al.**, 2004h:93101
Uçar, Ayşegül *see* **Alli, Hasan et al.**, 2004j:93064
Veres, S. M. (*with* Baramov, L.; Tutty, O. R.; Rogers, Eric) Iterative design for active control of fluid flow. (English summary) **2004h:93101**
Vergara-Caffarelli, Giorgio *see* **Komornik, Vilmos et al.**, 2004h:93099
Wodzicki, W. (*with* Awrejcewicz, Jan) The method of vibration control in the points of continuous flexible systems. (English summary)
Woittennek, Frank (*with* Rudolph, Joachim) Motion planning for a class of boundary controlled linear hyperbolic PDE's involving finite distributed delays. (English summary) **2004j:93067**
Xing, J. T. *see* **Xiong, Y. P. et al.**
Xiong, Y. P. (*with* Xing, J. T.; Price, W. G.) A general linear mathematical model of power flow analysis and control for integrated structure-control systems. (English summary)
Xu, Gen Qi (*with* Guo, Bao Zhu) Riesz basis property of evolution equations in Hilbert spaces and application to a coupled string equation. (English summary) **2004f:93071**
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Xu, Jian Guo (*with* Liu, Ji Ke) Nonlinear boundary control and stabilization of a system of flexible structures. (Chinese. English and Chinese summaries)
Yamamoto, Masahiro *see* **Liu, Kang Sheng et al.**, 2004b:93067
Ydstie, B. Erik *see* **Garcia-Osorio, Vianey**
Yung, Siu Pang *see* **Feng, De-Xing et al.**, 2004d:93067
Zerrik, El Hassane *see* **Boutoulout, A.**, 2004c:93056
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Zhou, Jianxin *see* **Chen, Goong et al.**, (2004e:93002)
Znamenskaya, L. N. Control of string vibrations in the class of generalized solutions in L_2. (Russian. Russian summary) **2004h:93102**
Zribi, Mohamed *see* **Smaoui, Nejib**
Zuazua, Enrique *see* **Zhang, Xu[1]**, 2004e:93049 *and* 2004e:93050

Items with secondary classifications in 93C20

Aassila, Mohammed Exact controllability of the Schrödinger equation. (English summary) **2004d:93012**
Achhab, Mohamed E. (*with* Laabissi, Mohamed) Feedback stabilization of a class of distributed parameter systems with control constraints. (English summary)
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Afifi, Larbi (*with* Chafiai, Abdelhakim; Bel Fekih, Abdelaziz) Enlarged exact compensation in distributed systems. (English summary) **2004h:93150**
Alabau-Boussouira, Fatiha A general formula for decay rates of nonlinear dissipative systems. (English and French summaries) **2004k:93050**
Alekseev, G. V. Control problems for stationary equations of the magnetohydrodynamics of a viscous incompressible fluid. (Russian. Russian summary) **2004h:49039**
Al-Saphory, R. (*with* El Jai, A.) Asymptotic regional state reconstruction. (English summary) **2004a:93021**
Anița, Sebastian[2] (*with* Tataru, Daniel) Null controllability for the dissipative semilinear heat equation. (English summary) **2004b:93010**
Arada, N. (*with* Raymond, Jean-Pierre) Time optimal problems with Dirichlet boundary controls. (English summary) **2004k:49053**
Armaou, Antonios (*with* Siettos, Constantinos I.; Kevrekidis, Ioannis G.) Time-steppers and 'coarse' control of distributed microscopic processes. (English summary)
Attouch, Hedy (*with* Czarnecki, Marc-Olivier) Asymptotic control and stabilization of nonlinear oscillators with non-isolated equilibria. (English summary) **2004a:93068**
Avalos, George (*with* Lasiecka, Irena) Optimal blowup rates for the minimal energy null control of the strongly damped abstract wave equation. (English summary) **2004h:49040**
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Avdonin, Sergei A. (*with* Moran, William) Simultaneous control problems for systems of elastic strings and beams. (English summary) **2004f:93008**
— (*with* Seidman, Thomas I.) Pointwise and internal controllability for the wave equation. (English summary) **2004k:93008**
Balakrishnan, A. V. (*with* Shubov, Marianna A.; Peterson, Cheryl A.; Martin, Cynthia A.) Asymptotic and spectral results for nonselfadjoint large operators generated by coupled Euler-Bernoulli and large Timoshenko beam model. (English summary) **2004k:35278**
Balogh, Andras *see* **Bošković, Dejan M. et al.**, 2004f:93101
Banks, S. P. Exact boundary controllability and optimal control for a generalised Korteweg de Vries equation. (English summary) **2004c:93007**
Barbu, Viorel On local controllability of Navier-Stokes equations. (English summary) **2004j:93004**
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— (*with* Lefter, Cătălin) Internal stabilizability of the Navier-Stokes equations. (English summary) **2004j:93102**
— Internal stabilization of the phase field system. (English summary) (*see* **2004k:93003**)
Barreto, Rioco K. *see* **Quiroga de Caldas, Cruz Sonia et al.**, 2004f:93015
Beceanu, Marius Local exact controllability of the diffusion equation in one dimension. **2004g:93020**
Belbas, S. A. Optimal control of 2-D systems with non-local terms. (English summary) (*see* **2004h:93004**)
Bel Fekih, Abdelaziz *see* **Afifi, Larbi et al.**, 2004h:93150
Belmiloudi, Aziz On some robust control problems for nonlinear parabolic equations. (English summary) **2004i:93043**
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Benavides Guzmán, Rogelio (*with* Tucsnak, Marius) Energy decay estimates for the damped plate equation with a local degenerated dissipation. (English summary) **2004i:93150**
Benchohra, Mouffak (*with* Ntouyas, Sotiris K.) Controllability on infinite time horizon of nonlinear differential equations in Banach spaces with nonlocal conditions. (English summary) **2004c:93008**
Berrahmoune, Larbi Stabilization of beams with nonlinear feedback. (English summary) **2004c:93086**
Bertozzi, Andrea L. *see* **Wagner, B. A. et al.**, 2004k:76048
Bisognin, Eleni (*with* Bisognin, Vanilde; Perla Menzala, G.) Exponential stabilization of a coupled system of Korteweg-de Vries equations with localized damping. (English summary) **2004c:35349**
Bisognin, Vanilde *see* **Bisognin, Eleni et al.**, 2004c:35349
Boggs, Paul T. *see* **Kearsley, Anthony J. et al.**, 2004m:93008
Bošković, Dejan M. (*with* Balogh, Andras; Krstić, Miroslav) Backstepping in infinite dimension for a class of parabolic distributed parameter systems. (English summary) **2004f:93101**
Bourray, Hamid *see* **Zerrik, El Hassane**, 2004e:93021
Bucci, Francesca Uniform stability of a coupled system of hyperbolic/parabolic PDE's with internal dissipation. (English summary) **2004f:35017**
Byrnes, Christopher I. (*with* Gilliam, David S.; Isidori, Alberto; Ikeda, Yutaka; Marconi, Lorenzo) Internal model based design for the suppression of harmonic disturbances. (English summary) **2004h:93156**
Castro Barbero, Carlos (*with* Zuazua, Enrique) Some topics on the control and homogenization of parabolic partial differential equations. (English summary) **2004j:49026**
Chabakauri, G. D. Optimization of the boundary control of vibrations at one endpoint and the other endpoint fixed in the case of bounded energy. (Russian. Russian summary) **2004i:49048**
Chafiai, Abdelhakim *see* **Afifi, Larbi et al.**, 2004h:93150
Chambolle, Antonin (*with* Santosa, Fadil) Control of the wave equation by time-dependent coefficient. (English summary) **2004f:49005**
Chen, Guanrong *see* **Ueta, Tetsushi**, 2004a:34076
Chen, Qi-hong *see* **Jiang, Li-shang et al.**, 2004j:91133
Chen, Xian Qiang (*with* Zhao, Yi[1]) Feedback stabilization of a class of distributed parameter systems. (Chinese. English and Chinese summaries)
Chentouf, Boumediène Boundary feedback stabilization of a variant of the SCOLE model. (English summary) **2004a:93071**
Christofides, Panagiotis D. ★ Nonlinear and robust control of PDE systems. (English summary) **2004b:93001**
Chu, Bao Zeng *see* **Yan, Qing Xu**
Coron, Jean-Michel Local controllability of a 1-D tank containing a fluid modeled by the shallow water equations. (English summary) **2004a:93009**
Czarnecki, Marc-Olivier *see* **Attouch, Hedy**, 2004a:93068
Da Prato, Giuseppe (*with* Zabczyk, Jerzy) ★ Second order partial differential equations in Hilbert spaces. **2004e:47058**
Dehghan, Mehdi Identifying a control function in two-dimensional parabolic inverse problems. (English summary) **2004j:65137**
Dehman, Belhassen (*with* Lebeau, Gilles; Zuazua, Enrique) Stabilization and control for the subcritical semilinear wave equation. (English and French summaries) **2004i:35223**
Demetriou, Michael A. (*with* Kazantzis, Nikolaos) Compensation of spatiotemporally varying disturbances in nonlinear transport processes via actuator scheduling. (English summary)
Díaz Díaz, Jesús Ildefonso (*with* Lions, Jacques-Louis) On the approximate controllability of Stackelberg-Nash strategies.
Dochain, Denis *see* **Laabissi, Mohamed et al.**, 2004m:80012
Dunbar, William B. (*with* Petit, Nicolas; Rouchon, Pierre; Martin, Philippe Pierre) Motion planning for a nonlinear Stefan problem. (English summary) **2004c:80007**
El Jai, A. *see* **Al-Saphory, R.**, 2004a:93021
El-Saify, H. A. On some control problems. (English summary) **2004d:49056**
Fardigola, L. V. *see* **Sklyar, Grigory M.**, 2004a:93014 *and* **2004b:93019**
Feng, De-Xing *see* **Yan, Qing Xu et al.**
Fursikov, Andrei V. Real processes and realizability of a stabilization method for the Navier-Stokes equations by boundary feedback control. (English summary) **2004b:93111**

Gamboa, Pedro *see* **Quiroga de Caldas, Cruz Sonia et al., 2004f:93015**
Garay, M. Zegarra *see* **Rincon, M. A. et al.**
Gariboldi, Claudia M. (*with* Tarzia, Domingo Alberto) Convergence of distributed optimal controls on the internal energy in mixed elliptic problems when the heat transfer coefficient goes to infinity. (English summary) **2004b:49011**
Gawroński, Włodzimierz Discrete-time norms of flexible structures. (English summary)
Ge, Zhao Qiang (*with* Zhu, Guang Tian; Ma, Yong Hao) Spectrum distribution of the second order generalized distributed parameter systems. (Chinese. English and Chinese summaries)
Gilliam, David S. *see* **Byrnes, Christopher I. et al., 2004h:93156**
Glowinski, Roland (*with* He, Jiwen) Dirichlet feedback control for the stabilization of the wave equation: a numerical approach. (English summary) **2004j:93104**
Guesmia, Aïssa Nouvelles inégalités intégrales et applications à la stabilisation des systèmes distribués non dissipatifs. (English and French summaries) [New integral inequalities and applications to the stabilization of nondissipative distributed systems] **2004e:93077**
— A new approach of stabilization of nondissipative distributed systems. (English summary) **2004m:93106**
Gugat, Martin Boundary controllability between sub- and supercritical flow. (English summary) **2004g:93025**
Guo, Bao Zhu (*with* Luo, Yue Hu) Controllability and stability of a second-order hyperbolic system with collocated sensor/actuator. (English summary) **2004i:93015**
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Hätönen, J. J. (*with* Ylinen, Raimo) Polynomial systems theory applied to the analysis and design of multidimensional systems. (English summary) **2004e:93053**
Havârneanu, Teodor *see* **Barbu, Viorel et al., 2004b:93012**
He, Jiwen *see* **Glowinski, Roland, 2004j:93104**
Hébrard, Pascal (*with* Henrot, Antoine) Optimal shape and position of the actuators for the stabilization of a string. (English summary) **2004i:93155**
(Heinkenschloss, Matthias) *see* **Optimization and control of distributed systems**
Henriquez, Hernán R. Stabilization of hereditary distributed parameter control systems. (English summary) **2004g:93126**
Henrot, Antoine *see* **Hébrard, Pascal, 2004i:93155**
Hou, Xuezhang (*with* Tsui, Sze-kai) A feedback control and a simulation of a torsional elastic robot arm. (English summary) **2004c:93046**
Howle, L. E. *see* **Wagner, B. A. et al., 2004k:76048**
Hu, Sau-Lon James *see* **Li, Hua Jun[2] et al., 2004d:93042**
Ikeda, Yutaka *see* **Byrnes, Christopher I. et al., 2004h:93156**
Isidori, Alberto *see* **Byrnes, Christopher I. et al., 2004h:93156**
Jakubiak, Christopher *see* **Li, Hua Jun[2] et al., 2004d:93042**
Ji, J. C. Dynamics of a Jeffcott rotor-magnetic bearing system with time delays. (English summary)
Jiang, Li-shang (*with* Chen, Qi-hong; Wang, Li Jun; Zhang, Jin E.) A new well-posed algorithm to recover implied local volatility. (English summary) **2004j:91133**
Jin, Yong *see* **Wu, Jin Gang et al.**
Johnson, Harry L. (*with* Russell, David L.) Transfer function approach to output specification in certain linear distributed parameter systems. (English summary) **2004j:93078**
Kazantzis, Nikolaos *see* **Demetriou, Michael A.**
Ke, Yuan-yuan (*with* Yang, Wei) Optimal boundary control for a parabolic and hyperbolic coupled system. (English and Chinese summaries) **2004m:49015**
Kearsley, Anthony J. (*with* Tolle, Jon W.; Boggs, Paul T.) Hierarchical control of a linear diffusion equation. (English summary) **2004m:93008**
Kevrekidis, Ioannis G. *see* **Armaou, Antonios et al.**
Khapalov, Alexander Y. Bilinear controllability properties of a vibrating string with variable axial load and damping gain. (English summary) **2004i:93017**
— Controllability of the semilinear parabolic equation governed by a multiplicative control in the reaction term: a qualitative approach. (English summary) **2004c:93012**
Kobayashi, Toshihiro Boundary feedback stabilization of the sine-Gordon equation without velocity feedback. (English summary)
— Adaptive stabilization of the sine-Gordon equation by boundary control. (English summary) **2004m:93121**
Korneev, V. A. (*with* Melikyan, A. A.) Construction of weak discontinuities of the solution of a variational problem in a domain. (Russian. Russian summary) **2004d:49057**
Kozhaeva, L. B. *see* **Pavlenko, V. N., 2004c:49004**
Krabs, Werner (*with* Sklyar, Grigory M.; Woźniak, Jarosław) On the set of reachable states in the problem of controllability of rotating Timoshenko beams. (English summary) **2004a:93012**
Krstić, Miroslav *see* **Bošković, Dejan M. et al., 2004f:93101**
Laabissi, Mohamed (*with* Achhab, Mohamed E.; Winkin, Joseph J.; Dochain, Denis) Multiple equilibrium profiles for nonisothermal tubular reactor nonlinear models. (English summary) **2004m:80012**
— *see also* **Achhab, Mohamed E.**
Lacarbonara, W. (*with* Yabuno, H.) Closed-loop non-linear control of an initially imperfect beam with non-collocated input. (English summary)
Laing, Carlo R. (*with* Troy, William C.) PDE methods for nonlocal models. (English summary) **2004k:35382**
Lapin, A. V. (*with* Lapin, S. A.) Identification of nonlinear coefficient in a transport equation. (English summary) **2004i:93040**
Lapin, S. A. *see* **Lapin, A. V., 2004i:93040**
Lasiecka, Irena (*with* Triggiani, Roberto) Optimal regularity of elastic and thermoelastic Kirchhoff plates with clamped boundary control. (English summary) **2004d:74047**
— (*with* Seidman, Thomas I.) Strong stability of elastic control systems with dissipative saturating feedback. (English summary) **2004i:93146**
— *see also* **Avalos, George, 2004h:49040** *and* **2004h:93010**
Lebeau, Gilles *see* **Dehman, Belhassen et al., 2004i:35223**
Lee, Ho-Hoon A new trajectory control of a flexible-link robot based on a distributed-parameter dynamic model. (English summary)
Lefter, Cătălin *see* **Barbu, Viorel, 2004j:93102**
Leiva, Hugo A necessary and sufficient algebraic condition for the controllability of a thermoelastic plate equation. (English summary) **2004k:93012**
Li, Hua Jun[2] (*with* Hu, Sau-Lon James; Jakubiak, Christopher) H_2 active vibration control for offshore platform subjected to wave loading. (English summary) **2004d:93042**
Limaco, Juan (*with* Medeiros, Luis A.; Zuazua, Enrique) Existence, uniqueness and controllability for parabolic equations in non-cylindrical domains. (English summary) **2004m:93014**
— *see also* **Quiroga de Caldas, Cruz Sonia et al., 2004f:93015** *and* **de Menezes, Silvano Bezerra et al., 2004j:93012**
Lions, Jacques-Louis *see* **Díaz Díaz, Jesús Ildefonso**
Liu, Kang Sheng *see* **Zhang, Chun Guo et al., 2004m:93114**
Liu, Wei-Jiu Boundary feedback stabilization of an unstable heat equation. (English summary) **2004f:93110**
Logemann, Hartmut (*with* Mawby, A. D.) Discrete-time and sampled-data low-gain control of infinite-dimensional linear systems in the presence of input hysteresis. (English summary) **2004g:93097**
Loreti, Paola (*with* Rao, Bo-Peng) Compensation spectrale et taux de décroissance optimal de l'énergie de systèmes partiellement amortis. (English and French summaries) [Spectral compensation and optimal energy decay rate for partially damped systems] **2004j:35053**
Lozovanu, Dmitrii (*with* Stratila, Dan) Optimal flow in dynamic networks with nonlinear cost functions on edges. (English summary) **2004e:90007**
Luo, Xue Bo *see* **Sun, Ji**
Luo, Yue Hu *see* **Guo, Bao Zhu, 2004i:93015**
Ma, Yong Hao *see* **Ge, Zhao Qiang et al.**
Maksimov, Vyacheslav I. Method of extremal shift in problems of reconstruction of an input for parabolic variational inequalities. (English summary) **2004g:35232**
Malanowski, Kazimierz Solutions differentiability of parametric optimal control for elliptic equations. (English summary) **2004m:49073**
Marconi, Lorenzo *see* **Byrnes, Christopher I. et al., 2004h:93156**
Martin, Cynthia A. *see* **Balakrishnan, A. V. et al., 2004k:35278**
Martin, Philippe Pierre *see* **Dunbar, William B. et al., 2004c:80007**
Martinez, Patrick (*with* Vancostenoble, Judith) Exact controllability in "arbitrarily short time" of the semilinear wave equation. (English summary) **2004d:93015**
Mawby, A. D. *see* **Logemann, Hartmut, 2004g:93097**
Medeiros, Luis A. *see* **de Menezes, Silvano Bezerra et al., 2004j:93012** *and* **Limaco, Juan et al., 2004m:93014**
Melikyan, A. A. *see* **Korneev, V. A., 2004d:49057**
de Menezes, Silvano Bezerra Approximate controllability for the semilinear heat equation in $\mathbb{R}^N$ involving gradient terms. (English summary) **2004h:93020**
— (*with* Limaco, Juan; Medeiros, Luis A.) Remarks on null controllability for semilinear heat equation in moving domains. (English summary) **2004j:93012**
Meurer, Thomas (*with* Zeitz, Michael) A novel design approach to flatness-based feedback boundary control of nonlinear reaction-diffusion systems with distributed parameters. (*see* **2004g:93009**)
Mezić, Igor Controllability, integrability and ergodicity. (English summary) **2004g:93028**
— *see also* **Vainchtein, D. L., 2004a:76031**
Milla Miranda, M. *see* **Rincon, M. A. et al.**
Miller, Luc Escape function conditions for the observation, control, and stabilization of the wave equation. (English summary) **2004b:93115**
Moran, William *see* **Avdonin, Sergei A., 2004f:93008**
Nambu, Takao Stability enhancement of output for a class of linear parabolic systems. (English summary) **2004a:93077**
Negreanu, Mihaela (*with* Zuazua, Enrique) Uniform boundary controllability of a discrete 1-D wave equation. (English summary) **2004j:93013**
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Winkin, Joseph J. *see* **Laabissi, Mohamed et al.**, **2004m:80012**
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Zabczyk, Jerzy *see* **Da Prato, Giuseppe**, **2004e:47058**
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Zhu, Guang Tian *see* **Ge, Zhao Qiang et al.**
Zuazua, Enrique *see* **Dehman, Belhassen et al.**, **2004i:35223**; **Castro Barbero, Carlos**, **2004j:49026**; **Negreanu, Mihaela**, **2004j:93013** *and* **Limaco, Juan et al.**, **2004m:93014**

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Optimization and control of distributed systems ★ Optimization and control of distributed systems.

93C23 Systems governed by functional-differential equations [see also 34K35]

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Castillo-Toledo, Bernardino (*with* Núñez-Pérez, Eduardo) On the regulator problem for a class of LTI systems with delays. (English summary) **2004i:93088**
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Ho, Daniel W. C. *see* **Lu, Guo Ping et al.**, **2004f:93074**
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Knospe, Carl R. *see* **Zhang, Jianrong et al.**, **2004g:93088**
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Rajpurohit, Tanmay *see* **Haddad, Wassim M. et al., 2004m:93067**
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Tsai, Jason Sheng-Hong *see* **Huang, Cheng Ming et al., 2004f:93073**
Tsiotras, Panagiotis *see* **Zhang, Jianrong et al., 2004g:93088**
Ushio, Toshimitsu *see* **Yamamoto, Shigeru[1], (2004e:93002)**
Verriest, Erik I. *see* **Xu, Sheng Yuan et al., 2004b:93071**
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Agarwal, Ramesh K. *see* **Shi, Peng et al., 2004e:93057**
Anandhi, E. Radhakrishnan *see* **Balachandran, Krishnan, 2004h:93011**
Annaswamy, Anuradha M. *see* **Niculescu, Silviu-Iulian, 2004h:93074**
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Chen, Shi-Yuan *see* **Yu, Fang-Ming et al.**
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Cheng, Zhao Lin *see* **Feng, Jun E et al., 2004d:93041; 2004g:49057** *and* **Zhu, Shu Qian, 2004i:93175**
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Chung, Hung-Yuan *see* **Yu, Fang-Ming et al.**
Chung, K. W. *see* **Xu, Jian[2], 2004b:34170**
Cocquempot, Vincent *see* **Jiang, Bin et al.**
Cossi, Lúcia *see* **Oliveira, Vilma A. et al., 2004e:93082**
Dambrine, Michel *see* **Mondié, Sabine et al., 2004a:93061; Orlov, Yu. V. et al., 2004g:93051; Fridman, Emilia et al., 2004k:93020** *and* **Time delay systems: theory and control**
Dauer, J. P. *see* **Balasubramaniam, P., 2004k:93009**
Decarlo, R. A. *see* **Li, Xiaoqiu, 2004e:93022**
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Marzban, Hamid-Reza *see* **Razzaghi, Mohsen**

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Nakajima, Hiroyuki A rigorous proof for impossibility of a direct application of unstable delayed feedback control for continuous-time systems. (English summary) **2004b:93064**
(Nguang, Sing Kiong) *see* **Guan, Xin Ping et al., 2004d:93111a** *and* **Li, Guangwei[1] et al., 2004d:93111b**
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Richard, Jean-Pierre *see* **Orlov, Yu. V. et al., 2004g:93051**; **Fridman, Emilia et al., 2004k:93020** *and* **Time delay systems: theory and control**
Rodriguez-Gonzalez, Jesus *see* **Basin, M. V. et al., 2004c:49054**; **2004i:93181** *and* **2004m:93129**
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Shah, Sirish L. *see* **Sheng, Jie et al.**
Shaked, Uri *see* **Fridman, Emilia et al., 2004a:93058**; **2004g:93139**; **2004i:93048**; **2004i:93141**; **Gao, Hui Jun, 2004c:93035** *and* **Time-delay systems**
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Song, Yong Li (*with* Wei, Jun Jie) Bifurcation analysis for Chen's system with delayed feedback and its application to control of chaos. (English summary) **2004m:37062**
Staroświecki, Marcel *see* **Jiang, Bin et al.**
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Strygin, V. V. *see* **Fridman, Leonid M. et al., 2004c:93092** *and* **2004k:93106**
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Poddubnaya, O. N. *see* **Marchenko, Vladimir Matveevich**, **2004e:93052**

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Smith, L. S. *see* **Zayed, A. S. et al.**
Stoorvogel, Anton A. *see* **Saberi, Ali et al.**, **2004b:93052**
Tatjewski, Piotr *see* **Ławryńczuk, Maciej**, **2004h:93062**
Wang, Jun[8] *see* **Kang, Yu et al.**, **2004k:93045**
Wang, Yong *see* **Huang, Yi Min[2] et al.**
Xi, Hong Sheng *see* **Kang, Yu et al.**, **2004k:93045**
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Jiang, Changsheng *see* **Zhu, Yonghong et al.**
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93C41 Problems with incomplete information

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Rani, C. Sushma *see* **Ray, Goshaidas**
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Salgado, Mario E. *see* **Goodwin, Graham C. et al., 2004i:93070**
Shima, Masasuke *see* **Kawamura, Takeshi**
Sokolov, V. F. l_1 robust performance of discrete-time systems with structured uncertainty. (English summary)
Stein, Gunter *see* **Gorinevskiĭ, D. M., 2004j:93093**
Sznaier, Mario *see* **Lagoa, Constantino M. et al., 2004i:93058**
(Tan, Ying[1]) *see* **Dixon, W. E.**
Tanaka, Yoshiyuki *see* **Mukaidani, Hiroaki et al.**
Titov, O. Yu. *see* **Ukhobotov, V. I., 2004h:93176**
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Xu, Hua *see* **Mukaidani, Hiroaki et al.**
(Xu, Jian-Xin) *see* **Dixon, W. E.**
Yang, Guang-Hong *see* **Lin, Chong et al.**
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Yuz, Juan I. *see* **Goodwin, Graham C. et al., 2004i:93070**
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93C42 Fuzzy control

Abdelkrim, Mohamed Naceur *see* **Benrejeb, Mohamed, 2004f:93077**
Alwadie, A. (*with* Ying, Hao; Shah, Hiten) A practical two-input two-output Takagi-Sugeno fuzzy controller. (English summary)
Amaral, W. C. *see* **Campello, R. J. G. B.**
Apostolikas, Giorgos *see* **Tzafestas, Spyros et al.**
Aracil, Javier (*with* Gordillo, Francisco) Describing function method for stability analysis of PD and PI fuzzy controllers. (English summary)
Babuška, Robert *see* **Mollov, Stanimir**
Bafas, George *see* **Sarimveis, Haralambos**
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Balasubramaniam, P. *see* **Park, Jong Yeoul et al., 2004k:93080**
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Bondia, Jorge (*with* Picó, Jesús) Analysis of linear systems with fuzzy parametric uncertainty. (English summary) **2004f:93078**
Borne, Pierre *see* **Blanco, Yann et al.**
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Chan, P. T. (*with* Tsang, Kai Ming; Besharati-Rad, A.) Optimization of stable rules for fuzzy controller using genetic algorithms. (English summary) **2004g:93094**
Chang, Jin *see* **Zhang, Zengke**
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Chang, Wook (*with* Park, Jin Bae; Joo, Young Hoon; Chen, Guanrong) Static output-feedback fuzzy controller for Chen's chaotic system with uncertainties. (English summary) **2004c:93065**
Chao, Paul C.-P. *see* **Huang, Jeng-Sheng et al.**
Chekireb, H. (*with* Tadjine, M.; Bouchaffra, D.) Direct adaptive fuzzy control of nonlinear system class with application. (English summary)
Chemello, Gaetano *see* **Sossai, Claudio, 2004f:93080**

Chen, Cailian *see* **Guan, Xin Ping**
Chen, Chaio-Shiung Design of stable fuzzy control systems using Lyapunov's method in fuzzy hypercubes. (English summary)
Chen, Guanrong *see* **Chang, Wook et al., 2004c:93065** *and* **Li, Zhong[2] et al.**
Chen, Jia Bin *see* **Guan, Ping et al.**
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Chiu, Chih-Hui *see* **Teng, You-Wei et al.**
Choi, Chulwan *see* **Shin, Hyunseok et al.**
Chung, Hung-Yuan *see* **Lee, Ming-Ling et al., 2004g:93095** *and* **Yu, Fang-Ming et al.**
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Demirci, Mustafa Foundations of fuzzy functions and vague algebra based on many-valued equivalence relations. I. Fuzzy functions and their applications. (English summary) **2004c:93066**
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Ding, Yongsheng (*with* Ying, Hao; Shao, Shihuang) Typical Takagi-Sugeno PI and PD fuzzy controllers: analytical structures and stability analysis. (English summary) **2004c:93069**
Efe, Mehmet Önder Fuzzy variable structure control of a class of nonlinear sampled-data systems. (English summary) **2004b:93079**
Er, Meng Joo *see* **Gao, Yang[3]**
Fan, Xingzhe (*with* Zhang, Naiyao; Teng, Shujie) Trajectory planning and tracking of ball and plate system using hierarchical fuzzy control scheme. (English summary)
Feng, Gang[1] *see* **Ma, Jian[1], 2004d:93077**
Fung, Rong-Fong *see* **Huang, Jeng-Sheng et al.**
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Gao, Yang[3] (*with* Er, Meng Joo) Modelling, control, and stability analysis of non-linear systems using generalized fuzzy neural networks. (English summary)
Ge, Shuzhi Sam *see* **Li, Ning[4] et al.**
Gen, Mitsuo *see* **Yun, YoungSu, (2004f:90009)**
Gordillo, Francisco *see* **Aracil, Javier**
Gu, Hai Yun *see* **Zhang, Tian Ping[1] et al.**
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Haj-Ali, Amin (*with* Ying, Hao) Input-output structural relationship between fuzzy controllers using nonlinear input fuzzy sets and PI or PD control. (English summary)
Halang, Wolfgang A. *see* **Li, Zhong[2] et al.**
Hanss, Michael The extended transformation method for the simulation and analysis of fuzzy-parameterized models. (English summary)
Henzel, N. *see* **Łęski, Jacek M.**
Hsu, Li-Chin *see* **Mar, Jeich et al.**
Hu, Shou Song *see* **Liu, Ya**
Hu, Wei Li *see* **Xiang, Zheng Rong et al.**
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Huang, Jeng-Sheng (*with* Chao, Paul C.-P.; Fung, Rong-Fong; Lai, Cheng-Liang) Parametric control of an axially moving string via fuzzy sliding-mode and fuzzy neural network methods. (English summary)
Hughes, Evan J. *see* **Tsourdos, Antonios et al.**
Huo, Wei *see* **Shi, Wu Xi et al.**
Hušek, Petr *see* **Pytelková, Renata, (2004j:00014)**
Ichikawa, Akira *see* **Katayama, Hitoshi, 2004a:93051** *and* **Yoneyama, Jun et al., 2004e:93055**
Ichtev, Alexandar Multiple fuzzy models for fault tolerant control. (English summary)
Jamshidi, Mo Tools for intelligent control: fuzzy controllers, neural networks and genetic algorithms. (English summary)
Jing, Yuan Wei *see* **Mi, Yang**
Joo, Young Hoon *see* **Chang, Wook et al., 2004c:93065**
Juang, Yau-Tarng *see* **Huang, Chih-Peng**
Katayama, Hitoshi (*with* Ichikawa, Akira) H_∞ control for discrete-time Takagi-Sugeno fuzzy systems. (English summary) **2004a:93051**
— *see also* **Yoneyama, Jun et al., 2004e:93055**
Kim, Euntai *see* **Shin, Hyunseok et al.**
Kim, Hyun Min *see* **Park, Jong Yeoul et al., 2004k:93080**
Kong, Fan-liang (*with* Wang, Li Jie[2]) Researches on the model of fuzzy synthetic evaluation. (English and Chinese summaries)
Kumar, Mohit (*with* Stoll, Regina; Stoll, Norbert) Robust solution to fuzzy identification problem with uncertain data by regularization. Fuzzy approximation to physical fitness with real world medical data: an application. (English summary)
Kyriannakis, Efthimios *see* **Tzafestas, Spyros et al.**
Labiod, Salim (*with* Boucherit, Mohamed Seghir) Direct stable fuzzy adaptive control of a class of SISO nonlinear systems. (English summary)
Lai, Cheng-Liang *see* **Huang, Jeng-Sheng et al.**
Langari, Reza *see* **Lei, Shuliang**
Lee, Ming-Ling (*with* Chung, Hung-Yuan; Yu, Fang-Ming) Modeling of hierarchical fuzzy systems. (English summary) **2004g:93095**
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Lee, Tsu-Tian *see* **Wang, Wei-Yen et al.**
Lei, Shuliang (*with* Langari, Reza) Synthesis and approximation of fuzzy logic controllers for nonlinear systems. (English summary)
Łęski, Jacek M. (*with* Henzel, N.) A neuro-fuzzy system using logical interpretation of if-then rules and its application to diabetes mellitus forecasting. (English summary)
Leu, Yih-Guang *see* **Wang, Wei-Yen et al.**
Lewis, Frank L. *see* **Lin, Jonqlan**
Li, Hong Xing (*with* Wang, Jia Yin; Miao, Zhi-Hong) Marginal linearization method in modeling on fuzzy control systems. (English summary)
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Li, Jing *see* **Wang, Hua O. et al.**
Li, Jun Tao *see* **Li, Wen Lin**
Li, Kuei-Hsiang *see* **Yeh, Zong-Mu**
Li, Ning[4] (*with* Li, Shao Yuan[2]; Xi, Yu Geng) Stability analysis of a T-S fuzzy system based on observers. (Chinese. English and Chinese summaries)
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Li, Shao Yuan[2] *see* **Li, Ning[4] et al.**
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Liao, D. Z. (*with* Yeung, L. F.) l_∞-based stability criteria and its applications on FLC systems. (English summary)
Lin, Chih-Min (*with* Mon, Yi-Jen) Hybrid adaptive fuzzy controllers with application to robotic systems. (English summary)
Lin, Feng-Jie *see* **Mar, Jeich et al.**
Lin, Hung-Ta *see* **Mar, Jeich et al.**
Lin, Jonqlan (*with* Lewis, Frank L.) Two-time scale fuzzy logic controller of flexible link robot arm. (English summary)
Lin, Tsung-Chih (*with* Wang, Chi Hsu; Liu, Han-Leih) Observer-based indirect adaptive fuzzy-neural tracking control for nonlinear SISO systems using VSS and H^∞ approaches. (English summary)
Liu, Han-Leih *see* **Lin, Tsung-Chih et al.**
Liu, Xiang Dong *see* **Guan, Ping et al.**
Liu, Xiang-Jie *see* **Chan, Che Wai et al.**
Liu, Xiao Dong[1] (*with* Zhang, Qing Ling; Rao, Ming) New approaches to H_∞-control for T-S fuzzy descriptor systems via LMI. (English summary)
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— (*with* Hu, Shou Song) Ruzzy H_∞ robust feedback control for uncertain nonlinear system with time-delay based on fuzzy model. (Chinese. English and Chinese summaries)
Liu, Zhi Gang *see* **Zhang, You Gang et al.**
Ma, Jian[1] (*with* Feng, Gang[1]) An approach to H_∞ control of fuzzy dynamic systems. (English summary) **2004d:93077**
Mao, Jian Qin *see* **Ding, Hai Shan**
Mar, Jeich (*with* Lin, Feng-Jie; Lin, Hung-Ta; Hsu, Li-Chin) The car following collision prevention controller based on the fuzzy basis function network. (English summary)
Marusak, Piotr (*with* Tatjewski, Piotr) Stability analysis of nonlinear control systems with unconstrained fuzzy predictive controllers. (English summary)
Matko, Drago *see* **Blažič, Sašo et al.**
Melin, Patricia *see* **Sepúlveda, Roberto et al.**
Mi, Yang (*with* Jing, Yuan Wei) Robust stabilization of nonlinear discrete-time systems based on the Takagi-Sugeno model. (Chinese. English and Chinese summaries)
Miao, Zhi-Hong *see* **Li, Hong Xing et al.**
Mollov, Stanimir (*with* Babuška, Robert) Analysis of interactions and multivariable decoupling fuzzy control for a binary distillation column. (English summary)
Mon, Yi-Jen *see* **Lin, Chih-Min**
Montiel, Oscar *see* **Sepúlveda, Roberto et al.**
Muškinja, N. Supervisory control of the real-time fuzzy control systems. (English summary)
Nishikawa, Masahiro *see* **Yoneyama, Jun et al., 2004e:93055**
Orski, Donat *see* **Bubnicki, Zdzisław**
Palm, Rainer (*with* Stutz, Christiane) Generation of control sequences for a fuzzy gain scheduler. (English summary)
Park, Chang-Woo (*with* Park, Mignon) Adaptive parameter estimator based on T-S fuzzy models and its applications to indirect adaptive fuzzy control design. (English summary)
Park, Jin Bae *see* **Chang, Wook et al., 2004c:93065**
Park, Jong Yeoul (*with* Balasubramaniam, P.; Kim, Hyun Min) On the observability of fuzzy second order control systems. (English summary) **2004k:93080**
Park, Mignon *see* **Park, Chang-Woo** *and* **Shin, Hyunseok et al.**
Patel, Ambalal V. Analytical structures and analysis of fuzzy PD controllers with trapezoidal output multifuzzy sets. (English summary)
Peng, Jia Yin *see* **Li, Hong Xing et al.**
Perruquetti, Wilfrid *see* **Blanco, Yann et al.**
Picó, Jesús *see* **Bondia, Jorge, 2004f:93078**
Pieczyński, Andrzej Parallel and cascade structures of the multidimensional fuzzy model. (English summary)
Pivoňka, Petr Toward to exact setting of parameters fuzzy PID controllers. (English

summary) (*see* **2004h:93004**)
Pytelková, Renata (*with* Hušek, Petr) Stability analysis of discrete-time Takagi-Sugeno fuzzy systems. (English summary) (*see* **2004j:00014**)
Rao, Ming *see* **Liu, Xiao Dong[1] et al.**
Ren, Guang *see* **Xiu, Zhi Hong**
Ren, Jun-sheng (*with* Yang, Yan-sheng; Zhou, Chang-jiu) Design of Takagi-Sugeno fuzzy controller using PDC and its application to hydrofoil catamaran. (English summary)
Retchkiman, Zvi Modeling, stability, and regulation of fuzzy rule-based systems. (English summary)
Sarimveis, Haralambos (*with* Bafas, George) Fuzzy model predictive control of non-linear processes using genetic algorithms. (English summary)
Schnitman, L. (*with* Yoneyama, Takashi) A novel adaptive controller using fuzzy estimators. (English summary)
Sepúlveda, Roberto (*with* Melin, Patricia; Castillo, Oscar; Montiel, Oscar; Zamudio, Edgar) Fuzzy control for transmission power optimization in cellular phones. (English summary)
Shah, Hiten *see* **Alwadie, A. et al.**
Shao, Shihuang *see* **Ding, Yongsheng et al., 2004c:93069**
Shi, Wu Xi (*with* Huo, Wei; Wu, Hong Xin) Direct adaptive fuzzy generalized predictive control for linear systems with unknown parameters. (Chinese. English and Chinese summaries)
Shin, Hyunseok (*with* Choi, Chulwan; Kim, Euntai; Park, Mignon) Fuzzy partial state feedback control of discrete nonlinear systems with unknown time-delay. (English summary)
Shing, Chong-Cheng *see* **Chang, Wen-Jer**
Škrjanc, Igor *see* **Blažič, Sašo et al.**
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Stamou, G. B. *see* **Symeonaki, M. A.**
Stoll, Norbert *see* **Kumar, Mohit et al.**
Stoll, Regina *see* **Kumar, Mohit et al.**
Stutz, Christiane *see* **Palm, Rainer**
Su, Juhng-Perng *see* **Liang, Chi-Ying**
Symeonaki, M. A. (*with* Stamou, G. B.) Input control in non homogeneous Markov systems with fuzzy states. (English summary)
Tadjine, M. *see* **Chekireb, H. et al.**
Tanaka, Kazuo[1] *see* **Wang, Hua O. et al.**
Tatjewski, Piotr *see* **Marusak, Piotr**
Teng, Shujie *see* **Fan, Xingzhe et al.**
Teng, You-Wei (*with* Wang, Wen-June; Chiu, Chih-Hui) Function approximation via particular input space partition and region-based exponential membership functions. (English summary)
Tian, Lianfang *see* **Li, Zhong[2] et al.**
Tong, Shao Cheng *see* **Wang, Tao**
Tsang, Kai Ming *see* **Chan, P. T. et al., 2004g:93094**
Tso, S. K. *see* **Fung, Y. H., (2004h:93004)**
Tsourdos, Antonios (*with* Hughes, Evan J.; White, Brian A.) Multi-objective fuzzy design of a lateral autopilot for a quasi-linear parameter varying missile. (English summary)
Turunen, Esko A Łukasiewicz-style many-valued similarity reasoning. Review. (English summary) **2004d:93078**
Tzafestas, Spyros (*with* Kyriannakis, Efthimios; Apostolikas, Giorgos) Fuzzy adaptive-predictive decentralized control of discrete time interconnected systems. (English summary)
Wai, Rong-Jong Robust fuzzy neural network control for nonlinear motor-toggle servomechanism. (English summary)
Wang, Chi Hsu *see* **Lin, Tsung-Chih et al.**
Wang, Hua O. (*with* Li, Jing; Tanaka, Kazuo[1]) T-S fuzzy model with linear rule consequence and PDC controller: a universal framework for nonlinear control systems. (English summary)
Wang, Jia Yin *see* **Li, Hong Xing et al.**
Wang, Jian Hui *see* **Wang, Yan Qiu et al.**
Wang, Li Jie[2] *see* **Kong, Fan-liang**
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Wang, Wei-Yen (*with* Leu, Yih-Guang; Lee, Tsu-Tian) Output-feedback control of nonlinear systems using direct adaptive fuzzy-neural controller. (English summary)
Wang, Wen-Hao *see* **Chiang, Chiang-Cheng**
Wang, Wen-June *see* **Teng, You-Wei et al.**
Wang, Yan Qiu (*with* Wang, Jian Hui; Gu, Shu Sheng; Zhu, Yan Feng) Application research of adaptive fuzzy neural controller for MIMO system. (Chinese. English and Chinese summaries)
White, Brian A. *see* **Tsourdos, Antonios et al.**
Wu, Hong Xin *see* **Shi, Wu Xi et al.**
Wu, Sheng-Ming *see* **Chang, Wen-Jer**
Xi, Yu Geng *see* **Li, Ning[4] et al.**
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Xiao, Jian[1] *see* **Zhang, You Gang et al.**
Xiu, Zhi Hong (*with* Ren, Guang) Interpolation models of typical fuzzy controllers. (Chinese. English and Chinese summaries)
Yang, Yan-sheng *see* **Ren, Jun-sheng et al.**
Yang, Yue Quan *see* **Zhang, Tian Ping[1] et al.**
Yeh, Zong-Mu (*with* Li, Kuei-Hsiang) A systematic approach for designing multistage fuzzy control systems. (English summary)
Yen, G. G. *see* **Lee, S.**
Yeung, L. F. *see* **Liao, D. Z.**
Yeung, Wai-keung *see* **Chan, Che Wai et al.**
Ying, Hao *see* **Ding, Yongsheng et al., 2004c:93069; Haj-Ali, Amin** *and* **Alwadie, A. et al.**
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Yoneyama, Takashi *see* **Schnitman, L.**
You, Fei *see* **Li, Hong Xing et al.**
Yu, Fang-Ming (*with* Chung, Hung-Yuan; Chen, Shi-Yuan) Fuzzy sliding mode controller design for uncertain time-delayed systems with nonlinear input. (English summary)
— *see also* **Lee, Ming-Ling et al., 2004g:93095**
Yu, Jian Jiang *see* **Zhou, Cai Gen et al.**
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Yun, YoungSu (*with* Gen, Mitsuo) Adaptive hybrid genetic algorithm with fuzzy logic controller. (English summary) (*see* **2004f:90009**)
Zamudio, Edgar *see* **Sepúlveda, Roberto et al.**
Zhang, Duan Jin *see* **Xiang, Zheng Rong et al.**
Zhang, Hong Yue *see* **Song, Hua[2]**
Zhang, Hui Yan *see* **Zhang, Tian Ping[1] et al.**
Zhang, Naiyao *see* **Fan, Xingzhe et al.**
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Aguilar D., Luis *see* **Chacon M., Mario I. et al.**
(Al-Hadithi, Basil M.) *see* **Lin, Min-Long**
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Assawinchaichote, Wudhichai *see* **Nguang, Sing Kiong**
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Chen, Yon-Ping *see* **Li, Keh-Tsong**
Choi, Jae Rong *see* **Park, Jong Seo et al.**
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Delgado S., Abdi *see* **Chacon M., Mario I. et al.**
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Karr, Charles L. *see* **Wilson, Eric L., (2004f:90009)**
Kascak, A. F. *see* **Minihan, T. P. et al.**
Kurano, Masami *see* **Yoshida, Yuji et al.**
Kwun, Young Chel *see* **Park, Jong Seo et al.**
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Sun, Fu-Chun *see* **Liu, Hua Ping et al.**
Sun, Guangyoung *see* **Minihan, T. P. et al.**
Sun, Zeng-Qi *see* **Liu, Hua Ping et al.**
Tan, Min *see* **Liu, Dian Tong et al.**
Tong, Shao Cheng *see* **Hsu, Ya-Chen et al., 2004d:93124**
Walker, Carol L. *see* **Nguyen, Hung Trung et al., 2004g:93001**
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Wu, Qi Di *see* **Yu, You-Ling et al.**
Xu, Li-Hong *see* **Yu, You-Ling et al.**
Yasuda, Masami *see* **Yoshida, Yuji et al.**
Yi, Jian-Qiang *see* **Liu, Dian Tong et al.**
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Zhang, Hua Guang *see* **Li, Ming[10]**
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Genetic fuzzy systems: new developments ★ Genetic fuzzy systems: new developments.
Special Issue:
Analytical issues in fuzzy control ★ Special issue on analytical issues in fuzzy control.
Theme: Systems modeling and control ★ Theme: Systems modeling and control.

93C55 Discrete-time systems

Abdelhak, Ahmed *see* **Rachik, Mostafa**
Agarwal, Ramesh K. *see* **Shi, Peng et al., 2004e:93057**
Ahmed, Mohamed A. *see* **Alkhamis, Talal M.**
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Baglietto, Marco *see* **Alessandri, Angelo et al., 2004c:93070**
Barbot, J.-P. *see* **Hamzi, Boumediene et al., 2004f:93082**
Battistelli, Giorgio *see* **Alessandri, Angelo et al., 2004c:93070**
Bernussou, Jacques *see* **Daafouz, Jamal**
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Clements, David J. (*with* Wimmer, Harald K.) Existence and uniqueness of unmixed solutions of the discrete-time algebraic Riccati equation. (English summary) **2004h:93112**
Coll, Carmen *see* **Bru, Rafael et al., 2004i:93103; 2004i:93104** *and* **(2004h:93004)**
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Du, Xiao-Ning *see* **Li, Shao Yuan[2] et al., 2004h:93115**
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Fromion, Vincent (*with* Scorletti, Gérard) The behavior of incrementally stable discrete time systems. (English summary) **2004h:93113**
Gabriel Filho, Oscar *see* **Maitelli, André Laurindo**
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Jiang, Pei Gang[2] *see* **Li, Chun Wen et al.**
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Jin, Yi Hui *see* **Wang, Dong et al., 2004m:93078**
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Moog, Claude H. *see* **Aranda-Bricaire, E., 2004m:93075**
Normand-Cyrot, D. *see* **Hamzi, Boumediene et al., 2004f:93082**
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Rumchev, V. G. *see* **James, D. J. G., 2004e:93056**
Sánchez, Elena *see* **Bru, Rafael et al., 2004i:93103** *and* **(2004h:93004)**
San Martin, Luiz A. B. *see* **Braga Barros, Carlos José, 2004f:93081**

Scorletti, Gérard *see* **Fromion, Vincent, 2004h:93113**
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Allgöwer, Frank *see* **Magni, Lalo et al., 2004c:93030**
An, Yuan *see* **Zhou, Yu Cheng et al.**
Arapostathis, Aristotle *see* **Lee, Hong-Gi et al., 2004k:93022**
August, Elias *see* **Haddad, Wassim M. et al., 2004m:93095**
Bachelier, O. *see* **Mehdi, D. et al., 2004k:93042**
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Barabanov, Nikita E. (*with* Prokhorov, Danil V.) A new method for stability analysis of nonlinear discrete-time systems. (English summary) **2004j:93086**
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Bhattacharyya, Shankar Prashad *see* **Tantaris, R. N. et al., 2004c:93105**
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Chen, Shinn-Horng Robust D-stability analysis for linear discrete singular time-delay systems with structured and unstructured parameter uncertainties. (English summary) **2004c:93081**
Chen, Tongwen *see* **Xu, Sheng Yuan, 2004m:93040**
Chen, Xinkai *see* **Zhai, Guisheng et al.**
Chen, Yang Quan *see* **Vinagre, Blas M. et al., 2004k:26013**
Chen, Yong Ping *see* **Zhou, Yu Cheng et al.**
Cheng, Fang *see* **Zhou, Yu Cheng et al.**
Cheng, Zhao Lin *see* **Feng, Jun E et al., 2004g:49057**
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Dao Thi Lien *see* **Nguyễn Hữ'u Du' et al., 2004m:39022**
Davison, Edward J. *see* **Ben Jemaa, Lamia, 2004f:93050**
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Farina, Lorenzo *see* **Benvenuti, Luca, 2004k:93055**
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— Stabilization of a periodic solution of a discrete system over a ring. (Russian. English and Russian summaries) **2004k:39067**
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Galeani, Sergio (*with* Grasselli, Osvaldo Maria; Menini, Laura) Strong stabilization with infinite multivariable gain margin through linear periodic control. (English summary) **2004m:93118**
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García-Planas, Ma. Isabel Standardization of a descriptor system under discrete derivative feedback. (English summary) **2004j:93073**
González, Graciela Adriana Adaptive control for the discrete-time parametric-strict-feedback form. (English summary) **2004d:93073**
Granado, E. *see* **Colmenares, W. et al.**
Grasselli, Osvaldo Maria *see* **Galeani, Sergio et al., 2004m:93118**
Grizzle, J. W. (*with* Kang, Jun-Mo) Discrete-time control design with positive semi-definite Lyapunov functions. (English summary) **2004g:93070**
Gyurkovics, Éva (*with* Takács, Tibor) Quadratic stabilisation with H_∞-norm bound of non-linear discrete-time uncertain systems with bounded control. (English summary) **2004j:93115**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar; August, Elias) Stability and dissipativity theory for discrete-time non-negative and compartmental dynamical systems. (English summary) **2004m:93095**
Han, Jian *see* **Saberi, Ali et al., 2004j:93107**
Hardouin, Laurent *see* **Jaulin, Luc et al., 2004k:93027**
Harris, S. L. *see* **Al-Ajlouni, A. F. et al.**
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— *see also* **Lu, Guo Ping**, **2004g:93127**
Horowitz, Isaac M. *see* **Baños, Alfonso**, **2004k:93101**
Huang, Lin[1] *see* **Zuo, Zhiqiang et al.**, **2004m:93123**
Ikeda, Masao *see* **Zhai, Guisheng et al.**
Iusiumbeli, Anatolii (*with* Lozovanu, Dmitrii) Algorithms for solving discrete control problems on networks. (English summary) **2004a:93029**
Jaulin, Luc (*with* Ratschan, Stefan; Hardouin, Laurent) Set computation for nonlinear control. (English summary) **2004k:93027**
Jiang, Zhong-Ping (*with* Wang, Yuan[2]) A converse Lyapunov theorem for discrete-time systems with disturbances. (English summary) **2004g:93109**
Jimenez, Juan Carlos (*with* Ozaki, Tohru) Local linearization filters for non-linear continuous-discrete state space models with multiplicative noise. (English summary) **2004d:93135**
Jing, Yuan Wei *see* **Mi, Yang**
Johansen, Tor A. Reduced explicit constrained linear quadratic regulators. (English summary) **2004c:49074**
Kang, Jun-Mo *see* **Grizzle, J. W.**, **2004g:93070**
Kazantzis, Nikolaos A new approach to the zero-dynamics assignment problem for nonlinear discrete-time systems using functional equations. (English summary) **2004k:93062**
Keel, L. H. *see* **Tantaris, R. N. et al.**, **2004c:93105**
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Kloeden, Peter E. (*with* Marín-Rubio, Pedro) Weak pullback attractors of non-autonomous difference inclusions. (English summary) **2004g:37018**
Kostova, Snezhana P. Pole-assignment for controllable positive linear discrete time systems. (English summary) **2004e:93043**
Kotta, Ülle (*with* Nõmm, Sven; Zinober, Alan S. I.) Classical state space realizability of input-output bilinear models. (English summary) **2004e:93024**
— *see also* **Pearson, Ronald Korin et al.**, **2004a:93044**
Kouvaritakis, Basil *see* **Bloemen, H. H. J. et al.**, **2004d:93024**
Krabs, Werner On local fixed point controllability of nonlinear difference equations. (English summary) **2004e:93015**
Kučera, Vladimír *see* **Rosinová, Danica et al.**, **2004i:93159**
Kuznetsov, N. V. (*with* Leonov, G. A.) Stability by the first approximation for discrete systems. (English summary) **2004m:39020**
Kwon, Wook Hyun *see* **Lee, Kwan Ho et al.**, **2004e:93080**
Laila, Dina Shona (*with* Nešić, Dragan) Discrete-time Lyapunov-based small-gain theorem for parameterized interconnected ISS systems. (English summary) **2004j:93087**
Lall, Sanjay (*with* Beck, Carolyn) Error-bounds for balanced model-reduction of linear time-varying systems. (English summary) **2004f:93022**
Lam, James *see* **Xu, Sheng Yuan**, **2004m:93102**
Lee, Hong-Gi (*with* Arapostathis, Aristotle; Marcus, Steven I.) Linearization of discrete-time systems via restricted dynamic feedback. (English summary) **2004k:93022**
Lee, Joon Hwa *see* **Lee, Kwan Ho et al.**, **2004e:93080**
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Leite, Valter J. S. (*with* Peres, Pedro L. D.) Robust control through piecewise Lyapunov functions for discrete time-varying uncertain systems. (English summary) **2004k:93031**
Leonov, G. A. *see* **Kuznetsov, N. V.**, **2004m:39020**
Levkovizh, Avraham *see* **Cohen, Nir et al.**, **2004a:93053**
Lhous, M. *see* **Rachik, Mostafa et al.**, **2004c:49008** *and* **2004e:49035**
Li, Chang-Pin *see* **Xu, Daolin et al.**
Li, Ling-Lai *see* **Wang, Ling[1] et al.**
Li, Shao Yuan[2] *see* **Ding, Bao-Cang et al.**
de Lima, Teresa P. *see* **Cantó, Begoña et al.**
Lin, Zongli *see* **Chitour, Yacine**, **2004k:93104**
Liu, Guo-Ping *see* **Duan, Guang Ren et al.**, **2004h:93078**
Liu, Shu Tang[2] (*with* Chen, Guanrong) Nonlinear feedback-controlled generalized synchronization of spatial chaos. (English summary) **2004m:93111**
Liu, Wan Quan *see* **Wang, Jing et al.**
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Lu, Guo Ping (*with* Ho, Daniel W. C.) Quadratic stabilization for nonlinear perturbed discrete time-delay systems. (English summary) **2004g:93127**
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Luus, Rein (*with* Nurges, Ülo) Comparison of reflection coefficient approach to pole shifting for robust control of discrete-time systems. (English summary)
Ma, Shu Ping *see* **Feng, Jun E et al.**, **2004g:49057**
Magni, Lalo (*with* De Nicolao, Giuseppe; Scattolini, R.; Allgöwer, Frank) Robust model predictive control for nonlinear discrete-time systems. (English summary) **2004c:93030**
Mäkilä, Pertti M. (*with* Paattilammi, J.) Steady-state Kalman filtering with nonstationary noise. (English summary) **2004d:93137**
Marcus, Steven I. *see* **Lee, Hong-Gi et al.**, **2004k:93022**
Marinovici, Laurentiu (*with* Păstrăvanu, Octavian) Flow-invariance properties for a class of discrete-time nonlinear uncertain systems. (English summary) **2004e:93045**
Marín-Rubio, Pedro *see* **Kloeden, Peter E.**, **2004g:37018**
Mayne, D. Q. (*with* Raković, S.) Optimal control of constrained piecewise affine discrete-time systems. (English summary) **2004f:49062**
— (*with* Raković, S.) Model predictive control of constrained piecewise affine discrete-time systems. (English summary) **2004c:93039**
Mehdi, D. (*with* Boukas, El-Kébir; Bachelier, O.) Static output feedback design for uncertain linear discrete time systems. (English summary) **2004k:93042**
Menini, Laura *see* **Galeani, Sergio et al.**, **2004m:93118**
Mi, Yang (*with* Jing, Yuan Wei) Robust stabilization of nonlinear discrete-time systems based on the Takagi-Sugeno model. (Chinese. English and Chinese summaries)
Miani, Stefano *see* **Blanchini, Franco**, **2004c:93087**
Mirica-Ruse, Mihaela *see* **Della Dora, Jean et al.**, **2004j:93062**
Misawa, Eduardo A. *see* **Richter, Hanz**, **2004g:93112**
Monaco, Salvatore *see* **Califano, C. et al.**, **2004h:93024**
Mukaidani, Hiroaki *see* **Xu, Hua**, **2004j:91057**
Naidu, D. Subbaram *see* **Singh, Hardev et al.**
Nešić, Dragan *see* **Laila, Dina Shona**, **2004j:93087**
Nguyễn Hữu Du' (*with* Dao Thi Lien; Vu Hoang Linh) On complex stability radii for implicit discrete time systems. (English summary) **2004m:39022**
Nõmm, Sven *see* **Pearson, Ronald Korin et al.**, **2004a:93044** *and* **Kotta, Ülle et al.**, **2004e:93024**
Normand-Cyrot, D. *see* **Califano, C. et al.**, **2004h:93024**
Nurges, Ülo *see* **Luus, Rein**
de Oliveira, Paulo *see* **Cohen, Nir et al.**, **2004a:93053**
Orozco-Barbosa, Luis *see* **Ahmed, N. U. et al.**
Oustaloup, Alain *see* **Garcia Iturricha, A. et al.**, **2004c:93114**
Owens, David H. *see* **Dymkov, M. P. et al.**, **2004e:93012**
Ozaki, Tohru *see* **Jimenez, Juan Carlos**, **2004d:93135**
Paattilammi, J. *see* **Mäkilä, Pertti M.**, **2004d:93137**
Park, Youngjin *see* **Kim, Yoonsun**
Păstrăvanu, Octavian *see* **Marinovici, Laurentiu**, **2004e:93045**
Pearson, Ronald Korin (*with* Kotta, Ülle; Nõmm, Sven) Systems with associative dynamics. (English summary) **2004a:93044**
Pellegrino, Felice Andrea *see* **Blanchini, Franco**, **2004k:49075**
Peres, Pedro L. D. *see* **Leite, Valter J. S.**, **2004k:93031**
Pérez, O. *see* **Colmenares, W. et al.**
Petráš, Ivo *see* **Vinagre, Blas M. et al.**, **2004k:26013**
Prokhorov, Danil V. *see* **Barabanov, Nikita E.**, **2004j:93086**
Puig, Vicenç (*with* Saludes i Closa, Jordi; Quevedo, Joseba) Worst-case simulation of discrete linear time-invariant interval dynamic systems. (English summary) **2004f:65213**
Quevedo, Joseba *see* **Puig, Vicenç et al.**, **2004f:65213**
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— (*with* Lhous, M.) Optimal control minimal-time problem for discrete distributed system. (English summary) **2004e:49035**
Raković, S. *see* **Mayne, D. Q.**, **2004c:93039** *and* **2004f:49062**
Ratschan, Stefan *see* **Jaulin, Luc et al.**, **2004k:93027**
Richter, Hanz (*with* Misawa, Eduardo A.) Stability of discrete-time systems with quantized input and state measurements. (English summary) **2004g:93112**
Rogers, Eric *see* **Dymkov, M. P. et al.**, **2004e:93012**
Romero-Vivo, Sergio *see* **Bru, Rafael et al.**, (**2004h:93004**)
Rosinová, Danica (*with* Veselý, Vojtech; Kučera, Vladimír) A necessary and sufficient condition for static output feedback stabilizability of linear discrete-time systems. (English summary) **2004i:93159**
Sabatier, J. *see* **Garcia Iturricha, A. et al.**, **2004c:93114**
Saberi, Ali (*with* Shi, Guoyong; Stoorvogel, Anton A.; Han, Jian) Constrained stabilization problems for discrete-time linear plants. (English summary) **2004j:93107**
Saludes i Closa, Jordi *see* **Puig, Vicenç et al.**, **2004f:65213**
Sánchez, Elena *see* **Cantó, Begoña et al.**, **2004i:93013** *and* **Bru, Rafael et al.**, (**2004h:93004**)
Scattolini, R. *see* **Magni, Lalo et al.**, **2004c:93030**
Schilling, Robert J. *see* **Al-Ajlouni, A. F. et al.**
Shen, Yan Jun *see* **Chen, Fang Xin et al.**
Sheng, Yun Long[2] (*with* Yan, Zhi An; Su, Hong Ye; Chu, Jian) Efficient algorithm for computation of controllable region of linear discrete-time systems with bounded input. (Chinese. English and Chinese summaries)
Shi, Guoyong *see* **Saberi, Ali et al.**, **2004j:93107**
(Shi, Peng) *see* **Kim, Yoonsun**
Shi, Ying[1] *see* **Deng, Zi Li et al.**
(Shue, Shyh-Pyng) *see* **Kim, Yoonsun**
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Singh, Hardev (*with* Brown, Ronald H.; Naidu, D. Subbaram) Discrete-time timescale analysis via a new separation ratio and unified approach. (English summary)
Sirotin, A. N. On conditions for the solvability of a class of problems of the control of scalar discrete systems with additive random perturbations. (Russian. Russian summary) **2004k:93043**
Skogestad, Sigurd *see* **Faanes, Audun**, **2004k:93023**
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Stoorvogel, Anton A. *see* **Saberi, Ali et al.**, **2004j:93107**
Su, Hong Ye *see* **Sheng, Yun Long[2] et al.**
Sun, Shu Li[1] (*with* Deng, Zi Li) Pole-assignment fixed-interval Kalman smoother and Wiener smoother. (English and Chinese summaries)
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Tadeo, F. *see* **Colmenares, W. et al.**
Takács, Tibor *see* **Gyurkovics, Éva**, **2004j:93115**
Tang, Fang *see* **Wang, Ling[1] et al.**
Tantaris, R. N. (*with* Keel, L. H.; Bhattacharyya, Shankar Prashad) Stabilization of discrete-time systems by first-order controllers. (English summary) **2004c:93105**
Terlikowski, Tomasz The reachable sets concept applied to a class of min-max optimization problems. (English summary) **2004i:93010**
Thompson, Stephen[2] *see* **Duan, Guang Ren et al.**, **2004h:93078**
Tournier, Evelyne *see* **Della Dora, Jean et al.**, **2004j:93062**
Tridane, A. *see* **Rachik, Mostafa et al.**, **2004c:49008**
Tuesta, E. F. *see* **Costa, Oswaldo L. V.**, **2004j:49054** *and* **2004m:93046**

Utina, N. V. Estimates for transient processes in a discrete system of pulse-phase self-tuning of frequency. (Russian. English and Russian summaries) **2004k:93136**
Varga, Andràs Computation of transfer function matrices of periodic systems. (English summary) **2004j:93079**
Vasil′ev, S. N. Attainability and connectedness in an automaton network with a general state-switching rule. (Russian. Russian summary) **2004m:93091**
Veselý, Vojtech *see* **Rosinová, Danica et al., 2004i:93159**
Vinagre, Blas M. (*with* Chen, Yang Quan; Petráš, Ivo) Two direct Tustin discretization methods for fractional-order differentiator/integrator. (English summary) **2004k:26013**
Vivalda, J.-C. On the genericity of the observability of uncontrolled discrete nonlinear systems. (English summary) **2004m:93022**
Vu Hoang Linh *see* **Nguyễn Hữ'u Du' et al., 2004m:39022**
Wang, Bing Wen *see* **Chen, Fang Xin et al.**
Wang, Jin Zhi *see* **Zuo, Zhiqiang et al., 2004m:93123**
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Wang, Ling[1] (*with* Li, Ling-Lai; Tang, Fang) Directing orbits of chaotic systems using a hybrid optimization strategy. (English summary)
Wang, Long[1] *see* **Xie, Guang Ming, 2004i:93020**
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Xi, Yu Geng *see* **Ding, Bao-Cang et al.**
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Xie, Guang Ming (*with* Wang, Long[1]) Reachability and controllability of positive linear discrete-time systems with time-delays. (English summary) **2004i:93020**
Xu, Daolin (*with* Chee, Chin Yi; Li, Chang-Pin) A necessary condition of projective synchronization in discrete-time systems of arbitrary dimensions. (English summary)
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Xu, Yan[4] *see* **Deng, Zi Li et al.**
Yakubovich, V. A. Nonconvex global optimization problems: constrained infinite-horizon linear-quadratic control problems for discrete systems. (English summary) **2004i:49068**
Yan, Hong *see* **Ahmed, N. U. et al.**
Yan, Zhi An *see* **Sheng, Yun Long[2] et al.**
Yasuda, Kazunori *see* **Zhai, Guisheng et al.**
Zeheb, Ezra *see* **Cohen, Nir et al., 2004a:93053**
Zeidan, Vera *see* **Hilscher, Roman, 2004b:39019; 2004i:49055; 2004k:49061** *and* **2004m:39030**
Zhai, Guisheng (*with* Chen, Xinkai; Ikeda, Masao; Yasuda, Kazunori) Stability and $\mathscr{L}_2$ gain analysis for a class of switched symmetric systems. (English summary)
Zhang, Cishen *see* **Zhang, Jingxin, 2004j:93120**
Zhang, Jingxin (*with* Zhang, Cishen) The performance of discrete linear time-varying control for l_2 disturbance rejection. (English summary) **2004j:93120**
Zhang, Qing Ling *see* **Wang, Jing et al.**
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Zinober, Alan S. I. *see* **Kotta, Ülle et al., 2004e:93024**
Zuo, Zhiqiang (*with* Wang, Jin Zhi; Huang, Lin[1]) Robust stabilization for non-linear discrete-time systems. (English summary) **2004m:93123**

93C57 Sampled-data systems

Allgöwer, Frank *see* **Findeisen, Rolf et al., 2004j:93071**
Ballester, Enrique *see* **Camiña, Carlos et al., (2004h:00017)**
Cai, Guoping (*with* Huang, Jinzhi) Instantaneous optimal method for vibration control of linear sampled-data systems with time delay in control. (English summary)
Camiña, Carlos (*with* Tornero, Josep; Salt, Julian; Ballester, Enrique) A study of different multirate sampled-data linear models. (English summary) (*see* **2004h:00017**)
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Chen, Tongwen *see* **Sheng, Jie et al.**
Findeisen, Rolf (*with* Imsland, Lars; Allgöwer, Frank; Foss, Bjarne A.) Towards a sampled-data theory for nonlinear model predictive control. (English summary) **2004j:93071**
Foss, Bjarne A. *see* **Findeisen, Rolf et al., 2004j:93071**
Gelig, A. Kh. Stability in the large of nonlinear sampled-data systems. (English summary) **2004i:93106**
Grigoriadis, Karolos M. *see* **Tan, Kan**
Hagiwara, Tomomichi Nyquist stability criterion and positive-realness of sampled-data systems. (English summary) **2004g:93096**
Hori, N. *see* **Rabbath, C. A. et al., 2004m:93079**
Huang, Jinzhi *see* **Cai, Guoping**
Imsland, Lars *see* **Findeisen, Rolf et al., 2004j:93071**
Karampetakis, Nicholas P. On the discretization of singular systems. (English summary)
Lechevin, N. *see* **Rabbath, C. A. et al., 2004m:93079**
Logemann, Hartmut (*with* Mawby, A. D.) Discrete-time and sampled-data low-gain control of infinite-dimensional linear systems in the presence of input hysteresis. (English summary) **2004g:93097**
— (*with* Rebarber, Richard; Townley, Stuart) Stability of infinite-dimensional sampled-data systems. (English summary) **2004c:93073**
Mawby, A. D. *see* **Logemann, Hartmut, 2004g:93097**
Mirkin, Leonid (*with* Palmor, Zalman J.) Optimal hold functions for MDCS sampled-data problems. (English summary) **2004h:93116**
Nešić, Dragan *see* **Zaccarian, Luca et al., 2004h:93119**
Palmor, Zalman J. *see* **Mirkin, Leonid, 2004h:93116**
Rabbath, C. A. (*with* Hori, N.; Lechevin, N.) Convergence of sampled-data models in digital redesign. (English summary) **2004m:93079**
Rebarber, Richard *see* **Logemann, Hartmut et al., 2004c:93073**
Salt, Julian *see* **Camiña, Carlos et al., (2004h:00017)**
Schmid, Robert (*with* Zhang, Cishen) Performance limitations of nonlinear periodic sampled-data controllers for L_p disturbance rejection. (English summary) **2004g:93098**
Shah, Sirish L. *see* **Sheng, Jie et al.**
Sheng, Jie (*with* Chen, Tongwen; Shah, Sirish L.) Estimation of time delays in multirate sampled-data systems. (English summary)
Söderlind, Gustaf Digital filters in adaptive time-stepping. (English summary) **2004h:93117**
Tan, Kan (*with* Grigoriadis, Karolos M.) State-feedback control of LPV sampled-data systems. (English summary)
Teel, Andrew R. *see* **Zaccarian, Luca et al., 2004h:93119**
Toivonen, Hannu Tapio State-dependent parameter models of non-linear sampled-data systems: a velocity-based linearization approach. (English summary)
Tornero, Josep *see* **Camiña, Carlos et al., (2004h:00017)**
Townley, Stuart *see* **Logemann, Hartmut et al., 2004c:93073**
Trelewicz, Jennifer Q. (*with* Trenary, Timothy J.) Multidimensional rational approximations with an application to linear transforms. (English summary)
Trenary, Timothy J. *see* **Trelewicz, Jennifer Q.**
Vagharshakyan, Ashot On a relationship between discrete- and continuous-time systems. (Russian. English and Russian summaries) **2004h:93118**
Wang, Chang Ping[2] *see* **Chen, Shi Hua[3] et al.**
Yang, Qing *see* **Chen, Shi Hua[3] et al.**
Yao, Lili (*with* Zhang, Jifeng) Sampled-data-based LQ control of stochastic linear continuous-time systems. (English summary) **2004c:93074**
Zaccarian, Luca (*with* Teel, Andrew R.; Nešić, Dragan) On finite gain $\mathscr{L}_p$ stability of nonlinear sampled-data systems. (English summary) **2004h:93119**
Zhang, Cishen *see* **Schmid, Robert, 2004g:93098**
Zhang, Jifeng *see* **Yao, Lili, 2004c:93074**

Items with secondary classifications in 93C57

Åström, Karl Johan (*with* Bernhardsson, Bo) Systems with Lebesgue sampling. (English summary) (*see* **2004e:93003**)
Bárcena, R. *see* **de la Sen, Manuel et al., (2004h:00017)**
Bernhardsson, Bo *see* **Åström, Karl Johan, (2004e:93003)**
van den Bosch, P. P. J. *see* **Philips, P. P. H. H. et al., 2004d:93082**
Brockwell, Anthony E. (*with* Polak, Elijah; Evans, Robin J.; Ralph, Daniel) Dual-sampling-rate moving-horizon control of a class of linear systems with input saturation and plant uncertainty. (English summary) **2004h:49057**
Calise, Anthony J. *see* **Lavretskiĭ, E. Yu. et al., 2004k:93028**
Chen, Sheng[2] *see* **Wu, Jun[3] et al.**
Chu, Jian *see* **Wu, Jun[3] et al.**
Chu, Tianguang *see* **Hao, Fei et al.**
Ding, Steven Xianchun *see* **Zhang, Ping et al.**
Dvirnyĭ, A. I. On an estimate for robustness limit of a linear system with impulse action. (Russian. English summary)
Edwards, Christopher *see* **Herrmann, Guido et al.**
Efe, Mehmet Önder Fuzzy variable structure control of a class of nonlinear sampled-data systems. (English summary) **2004b:93079**
Evans, Robin J. *see* **Brockwell, Anthony E. et al., 2004h:49057**
Fan, Yu Shun *see* **Zhang, Xiao Li**
Francis, Bruce A. *see* **Ishii, Hideaki, 2004c:93002**
Funahashi, Yasuyuki *see* **Yamada, Manabu et al., 2004k:93121**
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93C62 Digital systems

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Digital signal processing and control ★ Digital signal processing and control.

93C65 Discrete event systems

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Hammer, Jacob *see* **Murphy, Thomas E. et al., 2004d:93081**
Hardouin, Laurent *see* **Lahaye, Sébastien et al., 2004i:93114**; **Lhommeau, Mehdi et al., 2004i:93115** *and* **Maia, C. A. et al., 2004i:93116**
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Kwong, Raymond H. *see* **Hashtrudi Zad, Shahin et al., 2004c:93076**
Lafortune, Stéphane[1] *see* **Debouk, Rami et al., 2004e:93060**; **Rohloff, Kurt et al., 2004i:93117**; **Rudie, Karen et al., 2004i:93118** *and* **Contant, Olivier et al., 2004m:93083**
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Lhommeau, Mehdi (*with* Hardouin, Laurent; Cottenceau, Bertrand) Optimal control for (max, +)-linear systems in the presence of disturbances. (English summary) **2004i:93115**
Liberzon, Daniel *see* **Hespanha, João P. et al., 2004i:93112**
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Manier, M.-A. *see* **Nait-Sidi-Moh, A. et al., 2004f:93085**
Manter, H. *see* **Nait-Sidi-Moh, A. et al., 2004f:93085**
Marzban, Hamid-Reza *see* **Razzaghi, Mohsen**
Mazigh, B. *see* **Koukam, A. et al.**
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Phoha, Shashi *see* **Ray, Asok et al., 2004h:93123** *and* **2004m:93086**
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Santos-Mendes, Rafael *see* **Maia, C. A. et al., 2004i:93116**
van der Schaft, A. J. *see* **Çamlıbel, M. K. et al., 2004h:93122**
Schumacher, J. M. *see* **Çamlıbel, M. K. et al., 2004h:93122**
van Schuppen, Jan H. *see* **Al-Falou, A. A., 2004h:93120**
Senichenkov, Yu. B. *see* **Borshchev, Andrei V. et al., (2004i:00008)**
Shieh, Leang-San *see* **Lin, Jun Y. et al., 2004k:93086**
Singer, Adam B. *see* **Lee, Cha Kun et al., 2004k:93085**
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— *see also* **Trontis, Anastasios, 2004i:93119**
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Sun, Guo Ji *see* **Zhou, Jiang-Hua et al.**
Sun, You Xian *see* **Dai, Huaping, 2004e:93059**
Surana, Amit *see* **Ray, Asok et al., 2004h:93123**
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Tan, Min *see* **Zheng, Gang[2] et al.**
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Teneketzis, Demosthenis *see* **Debouk, Rami et al., 2004e:93060** *and* **Contant, Olivier et al., 2004m:93083**
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— *see also* **Ledoux, James, 2004m:93085**
Tsai, Jason Sheng-Hong *see* **Lin, Jun Y. et al., 2004k:93086**
Ural, Hasan (*with* Whittier, David) Distributed testing without encountering controllability and observability problems. (English summary) **2004g:93101**
Ushio, Toshimitsu *see* **Takai, Shigemasa, 2004h:93125**
Vincent, Aymeric *see* **Arnold, André et al., 2004h:93121**
Walukiewicz, Igor *see* **Arnold, André et al., 2004h:93121**
Wang, Xiao *see* **Wu, Wei-Min et al.**
Whittier, David *see* **Ural, Hasan, 2004g:93101**
Więcławek, R. *see* **Mikulczyński, T. et al.**
Wonham, W. M. *see* **Gohari, Peyman, 2004c:93075** *and* **Hashtrudi Zad, Shahin et al., 2004c:93076**
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Xi, Yu Geng *see* **Chao, Zhijun, 2004b:93081**
Yoo, Tae-Sic *see* **Rohloff, Kurt et al., 2004i:93117**
Zeigler, Bernard P. *see* **Barros, Fernando J., 2004k:93082**
Zhao, Qian Chuan (*with* Zheng, Da Zhong) Note on structural properties and sizes of eigenspaces of min-max functions. (English summary) **2004i:93120**
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93C85 Automated systems (robots, etc.) [see also 68T40, 70B15, 70Q05]

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Petropoulakis, Lykourgos *see* **Shawky, Alaa et al.**
Piazzi, Aurelio *see* **Consolini, Luca et al., 2004j:93080**
Pisano, Alessandro *see* **Bartolini, Giorgio**
Prandini, Maria *see* **Hu, Jianghai et al., 2004i:93126**
Prattichizzo, Domenico *see* **Mercorelli, Paolo, 2004i:93127**
Rehman, Fazal-Ur Steering of nonholonomic mobile robots by using differential geometric approach. (English summary)
Ricardo, Sandra *see* **Helmke, Uwe et al., 2004m:93090**
Rondón, Juan E. *see* **De Sarrazin, Gisela, 2004f:93089**
Saitou, Kazuhiro Conformational switching as assembly instructions in self-assembling mechanical systems. (English summary) (*see* **2004i:00015**)
Samson, Claude *see* **Morin, Pascal, 2004j:93082**
Sastry, S. Shankar *see* **Hu, Jianghai et al., 2004i:93126**
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Sugie, Toshiharu *see* **Fujimoto, Kenji, 2004j:93081**
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Tarn, Tzyh-Jong *see* **Zhang, Ming Jun[2], 2004j:93084**
Tornambè, Antonio *see* **Menini, Laura**
Tosques, Mario *see* **Consolini, Luca et al., 2004j:93080**
Tzierakis, K. G. (*with* Koumboulis, F. N.) Independent force and position control for cooperating manipulators. (English summary)
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Wang, Shiu-Ping *see* **Kwatny, Harry G. et al., (2004f:93004)**
Wang, Xing Gui *see* **Huang, Chun Qing et al.**
Wang, Zu Guang *see* **Huang, Chun Qing et al.**
Watanabe, Keigo *see* **Nanayakkara, Thrishanta et al.**
Williamson, Darrell *see* **Kanchanasaratool, Narongsak, 2004k:93091**
Witte, Herbert *see* **Alt, Walter et al., (2004i:00009)**
Wu, Christine Qiong *see* **Mu, Xiuping**
Wu, Xu-Zhong *see* **Shen, Hui et al.**
Xi, Yu Geng *see* **Zhang, Chun-Gang, 2004e:93064**
Xu, Yangsheng *see* **Hong, Yiguang et al., 2004h:93131**
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Yavin, Y. *see* **Frangos, C., 2004e:93062** *and* **2004i:93125**
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Borshchevsky, Michael *see* **Gutman, Per-Olof et al.**
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Butur, Marius *see* **Puta, Mircea et al., 2004i:70035**
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Casas, R. A. *see* **Thothadri, M. et al.**
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Chessé, Stéphane *see* **Bessonnet, Guy et al., 2004f:70023**
Chitour, Yacine Path planning on compact Lie groups using a homotopy method. (English summary) **2004h:93107**

Cortés, Jorge *see* **Martínez, Sonia, 2004b:70051**
Crama, Yves (*with* Van de Klundert, Joris) Cyclic scheduling in 3-machine robotic flow shops. (English summary)
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Dreisigmeyer, David W. (*with* Young, Peter M.) Nonconservative Lagrangian mechanics: a generalized function approach. (English summary) **2004i:70018**
Dzul, A. *see* **Lozano Leal, Rogelio et al.**
Eitelberg, Eduard Some peculiarities of load sharing control. (English summary)
El-Gohary, Awad I. Optimal control of an angular motion of a rigid body during infinite and finite time intervals. (English summary) **2004c:49083**
Espinosa-Pérez, Gerardo *see* **Álvarez-Ramírez, J., 2004g:93119**
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(Gao, David Yang) *see* **Advances in mechanics and mathematics, 2004g:00014**
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Ge, Shuzhi Sam Comments on: "Adaptive global stabilization of nonholonomic systems with strong nonlinear drifts" [Systems Control Lett. **46** (2002), no. 3, 195–205] by Khac Duc Do and J. Pan. (English summary) **2004i:93172b**
— *see also* **Sun, Zhendong et al., 2004f:93116** *and* **Khac Duc Do, 2004i:93172c**
Gergaud, J. *see* **Caillau, Jean-Baptiste et al., 2004i:70033**
Giese, Guido (*with* Longman, Richard W.; Bock, Hans Georg) Mechanical assessment of time optimal robot motion. (English summary)
Golubev, A. E. (*with* Krishchenko, A. P.; Tkachev, S. B.) A separation principle for affine systems. (Russian. Russian summary) **2004a:93018**
Golubev, Yu. F. A robot-balancer on a cylinder. (Russian. Russian summary) **2004f:70025**
Goodwine, Bill *see* **McMickell, M. Brett, 2004k:93014**
Griesse, Roland (*with* Walther, Andrea) Using AD-generated derivatives in optimal control of an industrial robot. (English summary)
Grigorenko, N. L. *see* **Bogomolov, V. P. et al., 2004j:70054**
Groff, Richard E. (*with* Khargonekar, Pramod P.; Koditschek, Daniel E.) A local convergence proof for the minvar algorithm for computing continuous piecewise linear approximations. (English summary) **2004i:41014**
Guetta, Rami *see* **Gutman, Per-Olof et al.**
Gutman, Per-Olof (*with* Horesh, Eran; Guetta, Rami; Borshchevsky, Michael) Control of the aero-electric power station—an exciting QFT application for the 21st century. (English summary)
Hamel, Tarek (*with* Souères, P.; Meizel, D.) Path following with a security margin for mobile robots. (English summary) **2004a:70011**
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Hašek, Roman Singularity analysis of serial robot-manipulator with some joints prismatic. (English summary) (*see* **2004k:00020**)
Hernández, Vicente G. *see* **Fernández, J. C. et al.**
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Huang, Chun Qing (*with* Shi, Song Jiao) Robust-adaptive output-tracking control of robot manipulators under input constraints. (Chinese. English and Chinese summaries)
Huo, Wei *see* **Ma, Bao Li, 2004e:93081** *and* **Sun, Zhendong et al., 2004f:93116**
Ioslovich, Ilya Optimal control of rigid body rotation around center of mass. (English summary) **2004f:49044**
Jacobsen, Elling W. *see* **Schmidt, Henning**
Jakubiak, Janusz *see* **Tchoń, Krzysztof et al., 2004i:70005** *and* **2004m:70004**
Jalili, N. *see* **Derkhorenian, R. et al.**
Joglekar, Harish K. *see* **Chatterjee, Debasish et al.**
Johnson, C. Richard, Jr. *see* **Thothadri, M. et al.**
Kabamba, Pierre T. *see* **Davison, Daniel E. et al.**
Kamzolkin, D. V. *see* **Bogomolov, V. P. et al., 2004j:70054**
Kelly, Rafael *see* **Moreno, Javier**
Khac Duc Do (*with* Pan, Jie[1]) Adaptive global stabilization of nonholonomic systems with strong nonlinear drifts. (English summary) **2004i:93172a**
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Khargonekar, Pramod P. *see* **Groff, Richard E. et al., 2004i:41014**
Kim, Yoonsoo (*with* Mesbahi, Mehran) Quadratically constrained attitude control via semidefinite programming. (English summary) **2004m:70049**
Kimura, Hidenori *see* **Miyamura, Aiko, 2004i:93099**
Koditschek, Daniel E. *see* **Groff, Richard E. et al., 2004i:41014**
Kolesnichenko, O. (*with* Shiriaev, A. S.) Partial stabilization of underactuated Euler-Lagrange systems via a class of feedback transformations. (English summary) **2004j:93105**
Kovalev, A. M. (*with* Zuev, A. L.; Shcherbak, V. F.) Synthesis of a stabilizing control for a rigid body with joined elastic elements. (Russian. English, Russian and Ukrainian summaries) **2004e:93079**
Kozlov, Valeriĭ V. (*with* Ramodanov, S. M.) On the motion of a body with a rigid hull and changing geometry of masses in an ideal fluid. (Russian) **2004b:76041**
(Kozłowski, Krzysztof) *see* **Recent developments in robotics**
Krishchenko, A. P. *see* **Golubev, A. E. et al., 2004a:93018**
Krut'ko, P. D. Control of oscillation. Synthesis of algorithms based on the inversion of the direct Lyapunov method. (Russian. Russian summary) **2004i:93084**
Kuang, Jinlu (*with* Tan, Soonhie; Wang, Youfa) GPS-based on-board orbit determination of a satellite using extended H_∞ filtering algorithms. (English summary)
LaValle, Steven M. *see* **Cheng, Peng[3] et al.**
Lee, Ho-Hoon A new approach for the anti-swing control of overhead cranes with high-speed load hoisting. (English summary)
Lee, Tong Heng *see* **Sun, Zhendong et al., 2004f:93116**
Le Gorrec, Y. (*with* Magni, Jean-François) An LFT approach to scheduled feedback design with an application to the synthesis of a missile autopilot. (English summary)
Lewis, Frank L. *see* **Lin, Jonqlan**
Lin, Chih-Min (*with* Mon, Yi-Jen) Hybrid adaptive fuzzy controllers with application to robotic systems. (English summary)
Lin, Feng-Jie *see* **Mar, Jeich et al.**
Lin, Hung-Ta *see* **Mar, Jeich et al.**
Lin, Jonqlan (*with* Lewis, Frank L.) Two-time scale fuzzy logic controller of flexible link robot arm. (English summary)
Loginov, Alekseĭ Alekseevich Resonance dynamic stabilization of an inverted pendulum with two degrees of freedom. (Russian. English, Russian and Ukrainian summaries)
Longman, Richard W. *see* **Giese, Guido et al.**
Loría, Antonio (*with* Melhem, Khoder) Position feedback global tracking control of EL systems: a state transformation approach. (English summary) **2004c:93047**
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Lozano Leal, Rogelio (*with* Castillo, P.; Dzul, A.) Global stabilization of the PVTOL: real-time application to a mini-aircraft. (English summary)
Lunze, Jan (*with* Nixdorf, Bernhard) Discrete reachability of hybrid systems. (English summary) **2004j:93075**
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Macau, Elbert E. N. Exploiting unstable periodic orbits of a chaotic invariant set for spacecraft control. (English summary) **2004j:70052**
Magni, Jean-François *see* **Ferreres, Gilles et al., 2004f:93040** *and* **Le Gorrec, Y.**
Magni, Lalo *see* **Fontes, Fernando A. C. C., 2004j:93055**
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Marchand, Nicolas *see* **Alamir, Mazen, 2004h:93094**
Martínez, Sonia (*with* Cortés, Jorge) Motion control algorithms for simple mechanical systems with symmetry. (English summary) **2004b:70051**
McClamroch, N. Harris *see* **Shen, Jinglai et al., 2004m:93018**
McMickell, M. Brett (*with* Goodwine, Bill) Reduction and non-linear controllability of symmetric distributed systems. (English summary) **2004k:93014**
Meerkov, Semyon M. *see* **Davison, Daniel E. et al.**
Meizel, D. *see* **Hamel, Tarek et al., 2004a:70011**
Melhem, Khoder *see* **Loría, Antonio, 2004c:93047**
Menini, Laura (*with* Tornambè, Antonio) Control of (otherwise) uncontrollable linear mechanical systems through non-smooth impacts. (English summary) **2004h:93073**
Mesbahi, Mehran *see* **Kim, Yoonsoo, 2004m:70049**
Miyamura, Aiko (*with* Kimura, Hidenori) Stability of feedback error learning scheme. (English summary) **2004i:93099**
Mon, Yi-Jen *see* **Lin, Chih-Min**
Moon, F. C. *see* **Thothadri, M. et al.**
Moreno, Javier (*with* Kelly, Rafael) Velocity control of robot manipulators: analysis and experiments. (English summary)
Morgül, Ömer A model-based scheme for anticontrol of some chaotic systems. (English summary)
Moş, Ionel *see* **Puta, Mircea et al., 2004i:70035**
Mudi, Rajani K. *see* **Pal, Nikhil R. et al.**
Müller, Andreas Local analysis of singular configurations of open and closed loop manipulators. (English summary) **2004j:70007**
Muszyński, Robert *see* **Tchoń, Krzysztof et al., 2004i:70005**
Nagaev, R. F. ★ Dynamics of synchronising systems. **2004g:70026**
Nixdorf, Bernhard *see* **Lunze, Jan, 2004j:93075**
Noailles, Joseph *see* **Caillau, Jean-Baptiste et al., 2004i:70033**
(Ogden, Raymond W.) *see* **Advances in mechanics and mathematics, 2004g:00014**
Pal, Kuhu *see* **Pal, Nikhil R. et al.**
Pal, Nikhil R. (*with* Mudi, Rajani K.; Pal, Kuhu; Patranabis, D.) Rule extraction through exploratory data analysis for self-tuning fuzzy controllers. (English summary)
Pan, Jie[1] *see* **Khac Duc Do, 2004i:93172a; 2004i:93172c** *and* **Ge, Shuzhi Sam, 2004i:93172b**
Patra, Amit *see* **Chatterjee, Debasish et al.**
Patranabis, D. *see* **Pal, Nikhil R. et al.**
Peñalver, L. *see* **Fernández, J. C. et al.**

Puta, Mircea (*with* Butur, Marius; Moş, Ionel) Some remarks on the ball-plate problem. (English summary) **2004i:70035**
Ragulskis, Minvydas Coexisting attractors and their control in an angular motion transfer mechanism. (English summary) **2004j:70055**
Ramodanov, S. M. *see* **Kozlov, Valeriĭ V., 2004b:76041**
Reddien, G. W. Path-tracking through singularities. (English summary) **2004c:70012**
Sá da Costa, José *see* **van den Boom, T. J. J. et al., 2004j:93032**
Sardain, Philippe *see* **Bessonnet, Guy et al., 2004f:70023**
Schmidt, Henning (*with* Jacobsen, Elling W.) Identifying feedback mechanisms behind complex cell behavior.
Serrani, Andrea *see* **Tarn, Tzyh-Jong et al., 2004g:70037**
Shcherbak, V. F. *see* **Kovalev, A. M. et al., 2004e:93079**
Shen, Jinglai (*with* McClamroch, N. Harris; Bloch, Anthony M.) Local equilibrium controllability of multibody systems controlled via shape change. (English summary) **2004m:93018**
Shen, Zuojun *see* **Cheng, Peng[3] et al.**
Shi, Song Jiao *see* **Huang, Chun Qing**
Shiah, Shaw-Ji (*with* Young, Kuu-young) Robot motion classification from the standpoint of learning control. (English summary)
Shiriaev, A. S. *see* **Kolesnichenko, O., 2004j:93105**
Sossai, Claudio (*with* Chemello, Gaetano) Coherent functions in autonomous systems. (English summary) **2004f:93080**
Souères, P. *see* **Hamel, Tarek et al., 2004a:70011**
Steindl, A. (*with* Troger, H.) Optimal control of deployment of a tethered subsatellite. (English summary) **2004b:49082**
von Stryk, Oskar *see* **Hardt, Michael, 2004j:70017**
Suchomski, Piotr J-lossless and extended J-lossless factorizations approach for δ-domain H_∞ control. (English summary) **2004e:93038**
Sugie, Toshiharu *see* **Fujimoto, Kenji, 2004f:93106**
Sun, Zhendong (*with* Ge, Shuzhi Sam; Huo, Wei; Lee, Tong Heng) Stabilization of nonholonomic chained systems via nonregular feedback linearization. (English summary) **2004f:93116**
Tan, Soonhie *see* **Kuang, Jinlu et al.**
Tarn, Tzyh-Jong (*with* Zhang, Ming Jun[2]; Serrani, Andrea) New integrability conditions for differential constraints. (English summary) **2004g:70037**
Tchoń, Krzysztof (*with* Jakubiak, Janusz; Muszyński, Robert) Kinematics of mobile manipulators: a control theoretic perspective. (English summary) **2004i:70005**
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Tornero, Josep *see* **Fernández, J. C. et al.**
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Walther, Andrea *see* **Griesse, Roland**
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Wang, Yi-Ming *see* **Cheng, J.-W. John, 2004h:93109**
Wang, Youfa *see* **Kuang, Jinlu et al.**
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White, Brian A. *see* **Tsourdos, Antonios et al.**
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Young, Kuu-young *see* **Shiah, Shaw-Ji**
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Pamplona ★ Robust frequency domain.
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93C95 Applications

Achhab, Mohamed E. *see* **Laabissi, Mohamed et al.**
Aguilar, L. *see* **Orlov, Yu. V. et al.**
Ailon, Amit (*with* Segev, Reuven; Arogeti, Shai) A simple velocity-free controller for attitude regulation of a spacecraft with delayed feedback. (English summary) **2004i:93129**
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Beghi, Alessandro *see* **Frezza, Ruggero, 2004j:93085**
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Bovy, Piet H. L. *see* **Hoogendoorn, Serge, 2004d:93088**
Cadiou, J. C. *see* **Orlov, Yu. V. et al.**
de Callafon, Raymond A. *see* **Van den Hof, Paul M. J., (2004h:93003)**
Calvert, Thomas E. *see* **Minihan, T. P. et al.**
Chen, Chen *see* **Wang, Jie[5] et al.**
Chen, Guanrong *see* **Fang, Jin-Qing et al., (2004e:93002)**
Cheng, Dai Zhan *see* **Ma, Jin[2] et al., 2004h:93136** *and* **Wang, Yuzhen et al.**
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Chin, Char-Ming *see* **Lacarbonara, W. et al.**
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Dochain, Denis *see* **Laabissi, Mohamed et al.**
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Fujarewicz, Krzysztof Identification and suboptimal control of heat exchanger using generalized back propagation through time. (English summary)
Garavello, Mauro *see* **D'Apice, Ciro et al., 2004e:93066**
Garcia, Galina C. *see* **Fernández-Cara, Enrique et al., 2004h:93134**
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Hoogendoorn, Serge (*with* Bovy, Piet H. L.) Simulation of pedestrian flows by optimal control and differential games. (English summary) **2004d:93088**
Horesh, Eran *see* **Gutman, Per-Olof et al.**

Hu, Yun An (*with* Koroleva, Olga I.; Krstić, Miroslav) Nonlinear control of mine ventilation networks. (English summary) **2004h:93135**
Huttunen, Tomi *see* **Malinen, Matti et al.**
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Janssens, K. *see* **Quanten, S. et al.**
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Kascak, A. F. *see* **Minihan, T. P. et al.**
Kevrekidis, Ioannis G. *see* **Armaou, Antonios et al.**
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Khaĭlov, E. N. *see* **Grigorieva, E. V.**
Khammash, Mustafa *see* **El-Samad, Hana et al., (2004d:93004)**
Kimura, Hidenori *see* **Mitrishkin, Yu. V. et al., 2004e:93067**
Kokotovic, V. V. *see* **Haskara, İ. et al.**
Koroleva, Olga I. *see* **Hu, Yun An et al., 2004h:93135**
Krishchenko, A. P. *see* **Velishchanskiĭ, M. A. et al.**
Krstić, Miroslav *see* **Bošković, Dejan M., 2004c:93078** *and* **Hu, Yun An et al., 2004h:93135**
Kurachi, Kan *see* **Mitrishkin, Yu. V. et al., 2004e:93067**
Kurata, Hiroyuki *see* **El-Samad, Hana et al., (2004d:93004)**
Kuznetsov, Yuriĭ Aleksandrovich *see* **Dercole, Fabio et al., 2004i:93130**
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Larsson, Mats *see* **Hill, David John et al., (2004f:93004)**
La Scala, Massimo *see* **Wang, Jie[5] et al.**
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Lei, Shuliang *see* **Minihan, T. P. et al.**
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Liu, Yan Hong *see* **Wang, Yuzhen et al.**
Lu, Qi Shao *see* **Jiang, Guirong et al.**
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Luo, Xue Bo *see* **Sun, Ji**
Ma, Jin[2] (*with* Cheng, Dai Zhan; Hong, Yiguang; Sun, Yuanzhang) On complexity of power systems. (English summary) **2004h:93136**
Maday, Yvon *see* **Le Bris, Claude et al., 2004m:93093**
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Manzo, Rosanna *see* **D'Apice, Ciro et al., 2004e:93066**
Marconi, Lorenzo *see* **Isidori, Alberto et al., 2004f:93090**
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McKenna, Paul *see* **Quanten, S. et al.**
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Mianzo, L. A. *see* **Haskara, İ. et al.**
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Richard, E. *see* **Mazenc, Frédéric, 2004g:93106**
Rinaldi, Sergio *see* **Dercole, Fabio et al., 2004i:93130**
Rodríguez, Carmen *see* **Bermúdez de Castro, Alfredo et al.**
Sala, Antonio *see* **Bitmead, Robert R., (2004h:93003)**
Salapaka, M. V. *see* **Sebastian, Abu et al., (2004d:93004)**
Salapaka, S. *see* **Sebastian, Abu et al., (2004d:93004)**
Sanner, R. M. *see* **Thienel, J., 2004i:93132**
Scattolini, R. *see* **Aurora, C. et al.**
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Segev, Reuven *see* **Ailon, Amit et al., 2004i:93129**
Serrani, Andrea *see* **Isidori, Alberto et al., 2004f:93090**
Shamir, Tzila How should an autonomous vehicle overtake a slower moving vehicle: design and analysis of an optimal trajectory. (English summary) **2004m:93094**
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Tkachev, S. B. *see* **Velishchanskiĭ, M. A. et al.**
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Van Brecht, A. *see* **Quanten, S. et al.**
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Villa, G. *see* **Aurora, C. et al.**
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Wikander, Jan *see* **Xiang, Fulin**
Winkin, Joseph J. *see* **Laabissi, Mohamed et al.**
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Young, P. C. *see* **Quanten, S. et al.**
Yu, Xinghuo *see* **Fang, Jin-Qing et al., (2004e:93002)**
Zaher, Ashraf A. *see* **Harb, Ahmad M.**
Zhang, Wenhua *see* **Turner, Kimberly et al., (2004d:93004)**

Items with secondary classifications in 93C95

Aguilar-Ibáñez, Carlos *see* **Sira-Ramírez, Hebertt, 2004j:93083**
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Banerjee, Santo *see* **Saha, Papri et al., 2004b:76162**

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Bélair, Jacques *see* **Mackey, Michael C. et al.**
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Berbyuk, V. E. Control and optimization of semi-passively actuated multibody systems. (English summary) **2004g:70008**
Betts, John T. (*with* Erb, Sven O.) Optimal low thrust trajectories to the moon. (English summary) **2004f:49057**
Bewley, Thomas R. *see* **Högberg, Markus et al.**
Blake, Andrew P. Open loop time consistency for linear rational expectations models. (English summary) **2004k:91144**
Bock, Hans Georg (*with* Longman, Richard W.; Schlöder, Johannes P.; Winckler, Michael J.) Synthesis of automative cams using multiple shooting-SQP methods for constrained optimization. (English summary) (*see* **2004d:00011**)
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Chelouah, A. (*with* Chitour, Yacine) On the motion planning of rolling surfaces. (English summary) **2004i:70008**
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Chen, Xiang[3] (*with* Tahmasebi, Ali; Gu, Guoxiang) Local robustness of bifurcation stabilization with applications to jet engine control. (English summary) **2004i:93152**
Chiang, Shu-Yin (*with* Kuo, C.-T.; Lim, J.-T.; Meerkov, Semyon M.) Improvability of assembly systems. I. Problem formulation and performance evaluation. (English summary)
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Chitour, Yacine *see* **Chelouah, A.**, **2004i:70008**
Choi, Youngjin (*with* Chung, Wan Kyun) ★ PID trajectory tracking control for mechanical systems. **2004m:93004**
Christofides, Panagiotis D. *see* **El-Farra, Nael H. et al.**
Chung, Wan Kyun *see* **Choi, Youngjin**, **2004m:93004**
Colmenares, W. (*with* Cristea, S.; de Prada, C.; Villegas, T.; Alonso, A.; Pérez, O.) MLD systems: modeling and control. (English summary) **2004b:93005**
Cristea, S. *see* **Colmenares, W. et al.**, **2004b:93005**
Dai, Guan Zhong *see* **Shi, Zhong Ke**
D'Alessandro, Domenico Directions in the theory of quantum control. (English summary) (*see* **2004d:93004**)
Datta, Kanti B. *see* **Baksi, Dibyendu et al.**, **2004j:93100**
De Farias, D. P. (*with* de Oliveira, Maurício C.; Geromel, J. C.) Mixed H_2/H_∞ control of flexible structures. (English summary)
De Man, P. *see* **Preumont, André et al.**
Doyle, F. J., III (*with* Pearson, Ronald Korin; Ogunnaike, B. A.) ★ Identification and control using Volterra models. **2004c:93001**
Dunnigan, Matthew W. *see* **Chen, Fang**
El-Farra, Nael H. (*with* Mhaskar, Prashant; Christofides, Panagiotis D.) Hybrid predictive control of nonlinear systems: method and applications to chemical processes. (English summary)
El-Samad, Hana *see* **Khammash, Mustafa**
Erb, Sven O. *see* **Betts, John T.**, **2004f:49057**
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Greenhalgh, David *see* **Lewis, Fraser**
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Reynolds, Daniel R. *see* **Klouček, Petr et al., 2004i:93086**
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Winckler, Michael J. *see* **Bock, Hans Georg et al.,** (**2004d:00011**)
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Allgöwer, Frank *see* **Potrykus, Henry G. et al., 2004j:93090**
Antoulas, A. C. *see* **Gugercin, S. et al., 2004a:93060**
Arzelier, Denis *see* **Henrion, Didier et al., 2004i:93135**
Astolfi, Alessandro *see* **Rapaport, A., 2004i:93139**
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Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M. et al., 2004m:93095**
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Coutinho, D. F. *see* **Bean, S. Palomino et al., 2004b:93093**
Cury, J. E. R. *see* **Bean, S. Palomino et al., 2004b:93093**
Cuzzola, Francesco Alessandro *see* **Ferrari-Trecate, Giancarlo et al., 2004i:93134**
Dambrine, Michel *see* **Mondié, Sabine et al., 2004a:93061**
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Giuclea, Marius *see* **Sireteanu, Tudor et al.**
Gregor, Jiří Stability of nonconvolutional n-D linear discrete systems. (English summary) **2004a:93059**
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Bokor, József *see* **Hangos, K. M. et al., 2004m:93002**
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Choi, ByoungSeon A fundamental theorem of algebra, spectral factorization, and stability of two-dimensional systems. (English summary) **2004f:94013**
Christofides, Panagiotis D. *see* **El-Farra, Nael H., 2004j:93092**
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Gao, Hui Jun *see* **Wang, Jun Ling[2] et al.**
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Ge, Shuzhi Sam *see* **Li, Ning[4] et al.**
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Gomes Da Silva, J. M., Jr. *see* **Tarbouriech, Sophie et al., 2004m:93070**
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Hagiwara, Tomomichi Nyquist stability criterion and positive-realness of sampled-data systems. (English summary) **2004g:93096**
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Ismail, Abdulla *see* **Mahmoud, Magdi S., 2004m:93068**
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Luo, Ningsu *see* **de la Sen, Manuel, 2004b:93070**
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Mahmoud, Magdi S. (*with* Ismail, Abdulla) Passivity and passification of time-delay systems. (English summary) **2004m:93068**
Mao, Jian Qin *see* **Ding, Hai Shan**
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Marinescu, Dan C. *see* **Lin, Chuang et al., 2004d:93086**
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Pham Van Quoc *see* **Nguyễn Hữ'u Du', 2004m:49012**
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Rabsztyn, Szymon *see* **Czornik, Adam et al., 2004h:39031**
Ramsey, James *see* **Byrnes, Christopher I. et al., 2004m:93056**
Rantzer, Anders A dual to Lyapunov's stability theorem. (English summary) **2004h:34102**
Rebarber, Richard *see* **Logemann, Hartmut et al., 2004c:93073**
Ren, Fengyuan *see* **Lin, Chuang et al., 2004d:93086**
Rossiter, J. Anthony Stable prediction for unstable independent models. (English summary) **2004h:93006**
Sathananthan, S. (*with* Keel, L. H.) Convergence and stability of stochastic hereditary iterative processes. (English summary) **2004j:93132**
Scorletti, Gérard *see* **Fromion, Vincent, 2004h:93113**
Sekhavat, P. (*with* Sepehri, N.; Wu, Christine Qiong) Calculation of Lyapunov exponents using nonstandard finite difference discretization scheme: a case study. (English summary) **2004k:37183**
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— Sufficiency-type stability and stabilization criteria for linear time-invariant systems with constant point delays. (English and Lithuanian summaries) **2004i:93160**
Sepehri, N. *see* **Sekhavat, P. et al., 2004k:37183**
Serrani, Andrea *see* **Isidori, Alberto et al., 2004f:93090**
Shaikhet, Leonid E. *see* **Kolmanovskiĭ, Vladimir B., 2004h:34145**
Shamma, Jeff S. (*with* Cloutier, James R.) Existence of SDRE stabilizing feedback. (English summary) **2004a:93078**
Shan, Zhiguang *see* **Lin, Chuang et al., 2004d:93086**
Shao, Shihuang *see* **Ding, Yongsheng et al., 2004c:93069**
Shaw, Michael D. *see* **Murty, K. N., 2004a:34084**
Shi, Shao Yun *see* **Han, Yue Cai et al., 2004c:34150**
Šiljak, Dragoslav D. *see* **Stipanović, Dušan M., 2004b:34135**
Singh, Vimal *see* **Kar, Haranath**
Spadini, Marco *see* **Colonius, Fritz, 2004f:93010**
Sparks, Rebecca On bounds for the existence of a bistable controller. (English summary) **2004i:93162**
Stipanović, Dušan M. (*with* Šiljak, Dragoslav D.) Connective stability of discontinuous dynamic systems. (English summary) **2004b:34135**
Stoorvogel, Anton A. *see* **Ludlage, Jobert H. A. et al., 2004c:93052**
Szabó, Zsolt *see* **Butcher, Eric A. et al., 2004k:34152**
Szederkényi, G. *see* **Hangos, K. M. et al., 2004m:93002**
Tarbouriech, Sophie (*with* Gomes Da Silva, J. M., Jr.; Garcia, Germain) Delay-dependent anti-windup strategy for linear systems with saturating inputs and delayed outputs. (English summary) **2004m:93070**
Tatjewski, Piotr *see* **Marusak, Piotr**
Teo, Kok Lay *see* **Liu, Xinzhi et al., 2004d:34022**
Thome, Néstor *see* **Bru, Rafael et al., 2004h:93084**
Townley, Stuart *see* **Logemann, Hartmut et al., 2004c:93073**
Trentelman, H. L. *see* **Belur, Madhu N., 2004j:93045**
Tsiotras, Panagiotis *see* **Zhang, Jianrong et al., 2004g:93088**
Utkin, Vadim I. (*with* Li, Shengming) Window observers for linear systems. (English summary) **2004k:93056**
Wang, Chang Hong[1] *see* **Wang, Jun Ling[2] et al.**
Wang, Guo Ming *see* **Han, Yue Cai et al., 2004c:34150**
Wang, Hua O. *see* **Wang, Yan-Wu et al.**
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Wang, Jun Ling[2] (*with* Wang, Chang Hong[1]; Gao, Hui Jun) Improved stability criterion and controller design for time-delayed LPV systems. (Chinese. English and Chinese summaries)
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Wang, Yan-Wu (*with* Guan, Zhi-Hong; Wang, Hua O.) LMI-based fuzzy stability and synchronization of Chen's system. (English summary)
Weiland, Siep *see* **Ludlage, Jobert H. A. et al., 2004c:93052**
Wu, Christine Qiong *see* **Sekhavat, P. et al., 2004k:37183**
Wu, Hong Xin *see* **Guo, Jian[1] et al.**
Wu, Xiao Bei *see* **Guo, Jian[1] et al.**
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Xiong, Ge (*with* Zheng, Lü Zhou) On the stability of linear nonautonomous differential-algebraic systems. (Chinese. English and Chinese summaries) **2004f:34074**
Xu, Mingwei *see* **Lin, Chuang et al., 2004d:93086**
Yang, Yongsheng *see* **Wang, Qing-Guo**
Ying, Hao *see* **Ding, Yongsheng et al., 2004c:93069**
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Zhang, Jianrong (*with* Knospe, Carl R.; Tsiotras, Panagiotis) New results for the analysis of linear systems with time-invariant delays. (English summary) **2004g:93088**
Zhang, Qing Ling *see* **Zhang, Da Qing[2] et al.**
Zhang, Suo Chun *see* **Zheng, Zuo-huan et al., 2004j:37062**
Zhang, Tian Ping[1] Direct adaptive neural network control based on an integral-type Lyapunov function. (Chinese. English and Chinese summaries)
Zhang, Xin Zheng *see* **Xiao, Sheng Zhong**
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Zheng, Lü Zhou *see* **Xiong, Ge, 2004f:34074**
Zheng, Zuo-huan (*with* Lü, Jinhu; Chen, Guanrong; Zhou, Tian Shou; Zhang, Suo Chun) Generating two simultaneously chaotic attractors with a switching piecewise-linear controller. (English summary) **2004j:37062**
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Zhou, Shang Bo *see* **Li, Xue Ming et al.**
Zhou, Tian Shou *see* **Zheng, Zuo-huan et al., 2004j:37062**

93D09 Robust stability

Álvarez-Ramírez, J. *see* **Fernández-Anaya, G., 2004b:93102**
Bachelier, O. (*with* Mehdi, D.) Robust matrix $\mathscr{D}_U$-stability analysis. (English summary) **2004b:93100**
Bazanella, A. S. *see* **Reginatto, R., 2004d:93100**
Berg, Jordan M. *see* **Maithripala, D. H. S. et al., 2004a:93064**
Bhattacharyya, Shankar Prashad *see* **Silva, Guillermo J. et al., 2004f:93098**
Bliman, Pierre-Alexandre LMI characterization of the strong delay-independent stability of linear delay systems via quadratic Lyapunov-Krasovskii functionals. (English summary) **2004g:93113**
Bohacek, Stephan (*with* Jonckheere, Edmond A.) Structural stability of linear dynamically varying (LDV) controllers. (English summary) **2004g:93114**
Brewer, Irina *see* **Smagina, Elena M., 2004h:93146**
Brooms, A. C. (*with* Kouvaritakis, Basil; Lee, Young Il) Constrained MPC for uncertain linear systems with ellipsoidal target sets. (English summary) **2004g:93115**
Castillo, P. *see* **Lozano Leal, Rogelio et al.**
Chen, Dong Yan *see* **Shi, Yu Jing**
Chen, Fang Xin (*with* Shen, Yan Jun; Wang, Bing Wen) Study of D-stability of uncertain discrete-time systems with time delay. (Chinese. English and Chinese summaries)
Chen, Shinn-Horng Robust D-stability analysis for linear discrete singular time-delay systems with structured and unstructured parameter uncertainties. (English summary) **2004c:93081**
Chen, Xinjia (*with* Zhou, Kemin) Fast parallel-frequency-sweeping algorithms for robust $\mathscr{D}$-stability margin. (English summary) **2004b:93101**
Christofides, Panagiotis D. *see* **El-Farra, Nael H., 2004j:93092**
Chu, Tianguang *see* **Hao, Fei et al., 2004f:93095**
Dai, Guan Zhong *see* **Shi, Zhong Ke**
Datta, Aniruddha *see* **Silva, Guillermo J. et al., 2004f:93098**
Dayawansa, W. P. *see* **Maithripala, D. H. S. et al., 2004a:93064**
Deng, Fei-qi *see* **Sun, Ji Tao et al.**
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Dzul, A. *see* **Lozano Leal, Rogelio et al.**
Eisaka, Toshio *see* **Xie, Wei et al., 2004d:93101**
El-Farra, Nael H. (*with* Christofides, Panagiotis D.) Robust inverse optimal control laws for nonlinear systems. (English summary) **2004j:93092**
Evans, Robin J. *see* **Halpern, M. E.**
Fang, Hua-Jing *see* **Xie, Lin-Bo et al.**
Fang, Jian'an *see* **Yue, Dong et al., 2004h:93148**
Farouki, Rida T. (*with* Moon, Hwan Pyo) Minkowski geometric algebra and the stability of characteristic polynomials. (English summary) **2004m:93098**
Feng, Zhaoshu (*with* Michel, Anthony N.) Robustness analysis of a class of discrete-time systems with applications to neural networks. (English summary) **2004e:93070**
Fernández-Anaya, G. (*with* Álvarez-Ramírez, J.) Preservation of robust stability under several uncertainties. (English summary) **2004b:93102**
Fridman, Emilia (*with* Shaked, Uri) Parameter dependent stability and stabilization of uncertain time-delay systems. (English summary) **2004i:93141**
Gai, Ru Dong (*with* Ma, Shi Gao; Xing, Chang-Zheng) Robust stability of interval systems. (Chinese. English and Chinese summaries)
Gałkowski, Krzysztof *see* **Paszke, Wojciech et al., 2004i:93144**
Gao, Fu-Rong *see* **Shao, Cheng et al.**
Gao, Hui Jun (*with* Wang, Chang Hong[1]; Li, Yan Hui[2]) New robust stability condition and controller design for uncertain time-delayed discrete-time systems. (Chinese. English and Chinese summaries)
Gao, Yuying *see* **Wang, Lin-shan, 2004h:93147**
Gorinevskiĭ, D. M. (*with* Stein, Gunter) Structured uncertainty analysis of robust stability for multidimensional array systems. (English summary) **2004j:93093**
Grasselli, Osvaldo Maria *see* **Paoletti, Simone et al., 2004j:93097**
Gu, Keqin *see* **Han, Qing-Long et al., 2004f:93094**
Guan, Zhi-Hong *see* **Xie, Lin-Bo et al.**
Hagino, Kojiro *see* **Maki, Midori et al.**
Halpern, M. E. (*with* Evans, Robin J.) Robustness with integrators. (English summary)
Hamel, Tarek *see* **Mahony, Robert**
Han, Jiang Hong *see* **Lu, Zhao Quan et al., 2004d:93097**
Han, Qing-Long (*with* Gu, Keqin; Yu, Xinghuo) An improved estimate of the robust stability bound of time-delay systems with norm-bounded uncertainty. (English summary) **2004f:93094**
Hao, Fei (*with* Chu, Tianguang; Huang, Lin[1]; Wang, Long[1]) Non-fragile controllers of peak gain minimization for uncertain systems via LMI approach. (English summary) **2004f:93095**
He, Xi Qin *see* **Zhang, Da Qing[2] et al.**
He, Yong[3] (*with* Wu, Min[2]; She, Jin-Hua; Liu, Guo-Ping) Parameter-dependent Lyapunov functional for stability of time-delay systems with polytopic-type uncertainties. (English summary) **2004m:93099**
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Henrion, Didier (*with* Sugimoto, Kenji; Šebek, Michael) Rank-one LMI approach to robust stability of polynomial matrices. (English summary) **2004b:93103**
Hinrichsen, Diederich (*with* Nguyễn Khoa So'n) On structured singular values and robust stability of positive systems under affine perturbations.
— (*with* Nguyễn Khoa So'n; Pham Huu Anh Ngoc) Stability radii of higher order positive difference systems. (English summary) **2004h:93142**
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Hu, Yan (*with* Zhu, Ting-yu; Huang, Fa Lun) Robustness with respect to small delays for exponential stability of infinite-dimensional linear systems. (English and Chinese summaries) **2004d:93092**
Huang, Fa Lun *see* **Hu, Yan et al., 2004d:93092**
Huang, Lin[1] *see* **Hao, Fei et al., 2004f:93095** *and* **Duan, Zhi-Sheng et al.**
Hwang, Chyi *see* **Yang, Shih-Feng, 2004a:93066**
Jia, Ying Min *see* **Xia, Yuan Qing, 2004g:93118** *and* **2004k:93099**
Jiang, Jin *see* **Maki, Midori et al.**
Jin, Yi Hui *see* **Wang, Dong et al., 2004g:93117**
Jonckheere, Edmond A. *see* **Bohacek, Stephan, 2004g:93114**
Kamiya, Yuji[1] *see* **Xie, Wei et al., 2004d:93101**
Kawabata, Keishi (*with* Mori, Takehiro; Kuroe, Yasuaki) Directional stability radius: a stability analysis tool for uncertain polynomial systems. (English summary) **2004d:93093**
Kawamura, Takeshi (*with* Shima, Masasuke) Stability analysis of the characteristic polynomials whose coefficients are polynomials of interval parameters via monotonicity methods. (English summary) **2004d:93094**
— (*with* Shima, Masasuke) Stability analysis for the linear system with structured uncertainties using pseudo-remainder sequences. (English summary) **2004e:93082**
Kharitonov, Vladimir L. (*with* Melchor-Aguilar, Daniel) On delay-dependent stability conditions for time-varying systems. (English summary) **2004i:93143**
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— (*with* Mondié, Sabine; Santos, Joaquin) Matrix convex directions for time delay systems. (English summary) **2004h:93143**
— (*with* Torres Muñoz, Jorge A.) Stability of multivariate polynomials. IV. Conic sets. (English summary) **2004d:93096**
— *see also* **Rodríguez-Angeles, E. et al., 2004m:93100**
Kouvaritakis, Basil *see* **Brooms, A. C. et al., 2004g:93115**
Kuang, Xiao Lei *see* **Luo, Zhong Liang, 2004d:93098**
Kuroe, Yasuaki *see* **Kawabata, Keishi et al., 2004d:93093**
Lagoa, Constantino M. Probabilistic enhancement of classical robustness margins: a class of nonsymmetric distributions. (English summary) **2004h:93144**
Lam, James *see* **Xu, Sheng Yuan et al., 2004e:93073**; **2004m:93102**; **Paszke, Wojciech et al., 2004i:93144** *and* **Lin, Chong et al.**
Lee, Young Il *see* **Brooms, A. C. et al., 2004g:93115**
Leite, Valter J. S. (*with* Peres, Pedro L. D.) An improved LMI condition for robust $\mathscr{D}$-stability of uncertain polytopic systems. (English summary) **2004a:93063**
Li, Jun Min *see* **Wang, Chun Xiao**
Li, Shu Yong[1] (*with* Ma, Zhi En) Estimation of a stability region on uncertain large-scale nonlinear systems with time delay. (English summary) **2004b:93104**
Li, Yan Hui[2] *see* **Gao, Hui Jun et al.**
Li, Zhengguo (*with* Soh, Yeng Chai; Wen, Changyun) Robust stability of perturbed switching systems by matrix measure. (English summary) **2004g:93116**
Liang, Man Gui *see* **Xiao, Yang[1] et al.**
Liao, Xiao Xin *see* **Liu, Bin[6] et al., 2004e:93071**; **2004j:93095** *and* **2004k:93097**
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— (*with* Wang, Jian Liang; Soh, C. B.) Maximum bounds for robust stability of linear uncertain descriptor systems with structured perturbations. (English summary) **2004j:93094**
Lin, Dong Mei Robust stability for a kind of linear system with boundless time-delay. (Chinese. English and Chinese summaries)
Lin, Zhiping *see* **Paszke, Wojciech et al., 2004i:93144**
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Liu, Guo-Ping *see* **He, Yong[3] et al., 2004i:93142** *and* **2004m:93099**
Liu, K. J. Ray *see* **Mercado, Alejandra, 2004e:93072**
Liu, Xinzhi *see* **Liu, Bin[6] et al., 2004e:93071**; **2004j:93095** *and* **2004k:93097**
Liu, Yong Qing[1] *see* **Sun, Ji Tao et al.**
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Lu, Yang *see* **Lu, Zhao Quan et al., 2004d:93097**
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Luk′yanova, T. O. (*with* Martynyuk, A. A.) Robust stability: three approaches for discrete-time systems. (English summary) **2004c:93083**
Luo, Zhong Liang (*with* Kuang, Xiao Lei) Robust analysis of dynamic matrix control for modelling error. (Chinese. English and Chinese summaries) **2004d:93098**
Ma, Shi Gao *see* **Gai, Ru Dong et al.**
Ma, Zhi En *see* **Li, Shu Yong[1], 2004b:93104**
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Mastorakis, Nikos E. On the robust stability of 2-D Schur polynomials. (English summary) (*see* **2004h:93004**)

Matvīchuk, K. S. Sufficient conditions for technical stability with respect to measure of the forced motion of automatic control systems with variable structure, depending on the derivatives of the control system. (Russian. Russian summary) **2004j:93096**

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Mehdi, D. *see* **Bachelier, O.**, **2004b:93100**

Melchor-Aguilar, Daniel *see* **Kharitonov, Vladimir L.**, **2004i:93143**

Menini, Laura *see* **Paoletti, Simone et al.**, **2004j:93097**

Mercado, Alejandra (*with* Liu, K. J. Ray) NP-hardness of the stable matrix in unit interval family problem in discrete time. (English summary) **2004e:93072**

Michel, Anthony N. *see* **Feng, Zhaoshu**, **2004e:93070**

Mondié, Sabine *see* **Kharitonov, Vladimir L. et al.**, **2004h:93143**

Monov, Vladimir An application of Caratheodory's theorem to the spectral set problem for convex matrix sets. (English and Bulgarian summaries) **2004b:93105**

Moon, Hwan Pyo *see* **Farouki, Rida T.**, **2004m:93098**

Mori, Takehiro *see* **Kawabata, Keishi et al.**, **2004d:93093**

Nguyễn Khoa Sơn *see* **Hinrichsen, Diederich et al.**, **2004h:93142**

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Paoletti, Simone (*with* Grasselli, Osvaldo Maria; Menini, Laura) A comparison between classical robust stability conditions. (English summary) **2004j:93097**

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Paszke, Wojciech (*with* Lam, James; Gałkowski, Krzysztof; Xu, Sheng Yuan; Lin, Zhiping) Robust stability and stabilisation of 2D discrete state-delayed systems. (English summary) **2004i:93144**

Peres, Pedro L. D. *see* **Leite, Valter J. S.**, **2004a:93063** *and* **Ramos, Domingos C. W.**

Petersen, Ian R. *see* **Ugrinovskiĭ, V. A.**, **2004f:93099**

Pham Huu Anh Ngoc *see* **Hinrichsen, Diederich et al.**, **2004h:93142**

Piazzi, Aurelio (*with* Visioli, Antonio) An interval analysis based algorithm for computing the stability margin of uncertain systems. (English summary) (*see* **2004j:65007**)

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Ren, Jun Chao *see* **Hu, Gang**[2]

Rodríguez-Angeles, E. (*with* Kharitonov, Vladimir L.; Torres Muñoz, Jorge A.) The Hadamard product of two stable multivariate polynomials is not necessarily stable. (English summary) **2004m:93100**

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Romanishin, I. M. (*with* Sinitskiĭ, L. A.) On the additive D-stability of a matrix based on the Kharitonov criterion. (Russian. Russian summary) **2004a:93065**

Saeki, Masami On the pole location of a system designed by robust stability-degree assignment. (English summary) **2004h:93145**

Santos, Joaquin *see* **Kharitonov, Vladimir L. et al.**, **2004h:93143**

Šebek, Michael *see* **Henrion, Didier et al.**, **2004b:93103**

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Shaked, Uri *see* **Fridman, Emilia**, **2004i:93141**

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Sinitskiĭ, L. A. *see* **Romanishin, I. M.**, **2004a:93065**

Smagina, Elena M. (*with* Brewer, Irina) Using interval arithmetic for robust state feedback design. (English summary) **2004h:93146**

Soh, C. B. *see* **Lin, Chong et al.**, **2004j:93094**

Soh, Yeng Chai *see* **Li, Zhengguo et al.**, **2004g:93116**

Stein, Gunter *see* **Gorinevskiĭ, D. M.**, **2004j:93093**

Sugimoto, Kenji *see* **Henrion, Didier et al.**, **2004b:93103**

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Torres Muñoz, Jorge A. *see* **Kharitonov, Vladimir L. et al.**, **2004d:93095**; **2004d:93096** *and* **Rodríguez-Angeles, E. et al.**, **2004m:93100**

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93D10 Popov-type stability of feedback systems

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Lu, Xiao-Mei *see* **Chen, Wu-Hua et al.**
Mason, Oliver *see* **Shorten, Robert N. et al., 2004j:93099**
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Zhang, Guo Shan *see* **Piao, Feng Xian et al., 2004d:93103**
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Llibre, Jaume (*with* Ponce, Enrique) Piecewise linear feedback systems with arbitrary number of limit cycles. (English summary) **2004c:34135**
Logemann, Hartmut (*with* Mawby, A. D.) Discrete-time and sampled-data low-gain control of infinite-dimensional linear systems in the presence of input hysteresis. (English summary) **2004g:93097**
Loría, Antonio (*with* Nešić, Dragan) On uniform boundedness of parameterized discrete-time systems with decaying inputs: applications to cascades. (English summary) **2004h:93005**
Margaliot, Michael (*with* Langholz, Gideon) Necessary and sufficient conditions for absolute stability: the case of second-order systems. (English summary) **2004b:93120**
Mawby, A. D. *see* **Logemann, Hartmut, 2004g:93097**
Nešić, Dragan *see* **Loría, Antonio, 2004h:93005**
Oustaloup, Alain *see* **Garcia Iturricha, A. et al., 2004c:93114**
Park, Ju-Hyun Stability criterion for neutral differential systems with mixed multiple time-varying delay arguments. (English summary) **2004b:34187**
Ponce, Enrique *see* **Llibre, Jaume, 2004c:34135**
Robertson, L. M., III (*with* Balas, M. J.) Stability analysis of controlled, partially-connected, distributed-parameter systems through perturbation methods. (English summary) **2004b:93068**
Sabatier, J. *see* **Garcia Iturricha, A. et al., 2004c:93114**
Sun, Hong Fei (*with* Zhao, Jun[2]) Stability of a class of switched symmetric composite systems. (Chinese. English and Chinese summaries)
Xu, Bingji (*with* Liu, Xinzhi; Liao, Xiao Xin) Absolute stability of Lurie systems with impulsive effects. (English summary) **2004m:34112**
Yeung, L. F. *see* **Liao, D. Z.**
Zhao, Jun[2] *see* **Sun, Hong Fei**
Zhao, Zheng-rong (*with* Dong, Xiao Mei) Delay-dependent absolute stability criterion for Lurie systems with multiple delays. (English and Chinese summaries)
Zwart, Hans *see* **Iftime, Orest, 2004e:93028**

93D15 Stabilization of systems by feedback

(Aassila, Mohammed) *see* **Errata: "On energy decay rate for linear damped systems", 2004c:93107**
Achhab, Mohamed E. (*with* Laabissi, Mohamed) Feedback stabilization of a class of distributed parameter systems with control constraints. (English summary)
Acho Zuppa, Leonardo (*with* Quiroz M., Ernesto) Impulsive control synchronization of Lorenz-based chaotic systems. (English summary)
Aeyels, Dirk *see* **De Leenheer, Patrick, 2004f:93104**
Afifi, Larbi (*with* Chafiai, Abdelhakim; Bel Fekih, Abdelaziz) Enlarged exact compensation in distributed systems. (English summary) **2004h:93150**
Agranovich, G. A. Some problems of discrete/continuous systems stabilization. (English summary) **2004i:93148**
Aizicovici, Sergiu (*with* Petzeltová, Hana) Compactness and long-time stabilization of solutions to phase-field models. (English summary) **2004d:93105**
Allgöwer, Frank *see* **Findeisen, Rolf et al., 2004c:93091**
Alonso-Quesada, S. (*with* de la Sen, Manuel) Robust adaptive stabilizer of a class of time-varying plants using multiple controllers. (English summary) **2004c:93084**
Al-Ruzaiza, A. S. *see* **El-Gohary, Awad I., 2004i:93154**
Álvarez-Ramírez, J. (*with* Espinosa-Pérez, Gerardo) Stability of current-mode control for DC-DC power converters. (English summary) **2004g:93119**
— *see also* **Cervantes, Ilse**
Aniţa, Laura-Iulia (*with* Aniţa, Sebastian[2]) Internal stabilization of parabolic equations with state constraints. (English summary) **2004i:93149**
Aniţa, Sebastian[2] (*with* Raymond, Jean-Pierre) Positive stabilization of a parabolic equation by controls localized on a curve. (English summary) **2004h:93152**
— *see also* **Aniţa, Laura-Iulia, 2004i:93149**
Astolfi, Alessandro (*with* Chhabra, D.; Ortega, Romeo) Asymptotic stabilization of some equilibria of an underactuated underwater vehicle. (English summary)

— (*with* Ortega, Romeo) Immersion and invariance: a new tool for stabilization and adaptive control of nonlinear systems. (English summary) **2004c:93085**

Attouch, Hedy (*with* Czarnecki, Marc-Olivier) Asymptotic control and stabilization of nonlinear oscillators with non-isolated equilibria. (English summary) **2004a:93068**

Bacciotti, Andrea (*with* Ceragioli, Francesca) Nonsmooth optimal regulation and discontinuous stabilization. **2004k:93100**

Bai, Er-Wei *see* **Uçar, Ahmet et al., 2004j:93109**

Baksi, Dibyendu (*with* Datta, Kanti B.; Ray, Goshaidas) Existence of pole-zero structures in a rational matrix equation arising in a decentralized stabilization of expanding systems. (English summary) **2004b:93107**

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Balabanov, A. *see* **Kondrat'ev, G. V., 2004d:93112**

Balogh, Andras *see* **Bošković, Dejan M. et al., 2004f:93101**

Banavar, R. N. Extremum seeking loops with quadratic functions: estimation and control. (English summary) **2004g:93120**

Banks, S. P. *see* **McCaffrey, David Charles, 2004f:93111**

Baños, Alfonso (*with* Horowitz, Isaac M.) Nonlinear quantitative stability. (English summary) **2004k:93101**

Bao, Jun-dong *see* **Luo, Qi et al.**

Barajas-Ramírez, Juan-Gonzalo (*with* Chen, Guanrong; Shieh, Leang-San) Hybrid chaos synchronization. (English summary) **2004d:93106**

Barbu, Viorel (*with* Sritharan, S. S.) Feedback stabilization of the magneto-hydrodynamic system. (English summary) (*see* **2004i:47002**)

— (*with* Wang, Gengsheng) Feedback stabilization of semilinear heat equations. **2004e:93074**

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Bartolini, Giorgio (*with* Ferrara, Antonella; Giacomini, Luisa) A switching controller for systems with hard uncertainties. (English summary) **2004h:93153**

Bel Fekih, Abdelaziz *see* **Afifi, Larbi et al., 2004h:93150**

Belur, Madhu N. (*with* Trentelman, H. L.) Stabilization, pole placement, and regular implementability. (English summary) **2004a:93069**

Benassi, Carlo (*with* Gavioli, Andrea) Hybrid stabilization of planar linear systems with one-dimensional outputs. (English summary) **2004h:93154**

Benavides Guzmán, Rogelio (*with* Tucsnak, Marius) Energy decay estimates for the damped plate equation with a local degenerated dissipation. (English summary) **2004i:93150**

Benner, Peter (*with* Hernández, Vicente G.; Martínez Pastor, A.) The Kleinman iteration for nonstabilizable systems. (English summary) **2004h:93155**

Berrahmoune, Larbi Stabilization of beams with nonlinear feedback. (English summary) **2004c:93086**

Bezglasnyĭ, S. P. The stabilization of program motions of controlled nonlinear mechanical systems. (English summary) **2004m:93104**

Bhattacharyya, Shankar Prashad *see* **Tantaris, R. N. et al., 2004c:93105**

Bi, Wei Ping (*with* Mu, Xiao Wu; Lin, Lan) Almost disturbance decoupling for a class of minimum-phase higher-order cascade nonlinear systems. (Chinese. English and Chinese summaries)

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Blanchini, Franco (*with* Miani, Stefano) Stabilization of LPV systems: state feedback, state estimation, and duality. (English summary) **2004c:93087**

Boimond, Jean-Louis *see* **Cottenceau, Bertrand et al., 2004f:93103**

Bošković, Dejan M. (*with* Balogh, Andras; Krstić, Miroslav) Backstepping in infinite dimension for a class of parabolic distributed parameter systems. (English summary) **2004f:93101**

Boukas, El-Kébir Stochastic output feedback of uncertain time-delay systems with saturating actuators. (English summary) **2004g:93121**

— *see also* **Shi, Peng et al., 2004c:93104**

Bounit, Hamid Comments on the feedback stabilization for bilinear control systems. (English summary) **2004g:93122**

Bowong, Samuel *see* **Moukam Kakmeni, F. M. et al.**

Brabender, Katrin *see* **Veselić, Krešimir et al., 2004g:93132**

Bu, Chun Xia *see* **Bi, Wei Ping et al.** *and* **Lin, Lan**

Büger, Matthias (*with* Martin, Marcus R. W.) Stabilizing control for an unbounded state-dependent delay equation. (English summary) **2004f:93102**

Bukhari, Fawzy A. *see* **El-Gohary, Awad I., 2004i:93153**

Bullo, Francesco *see* **Martínez, Sonia et al., 2004c:93101**

Byrnes, Christopher I. (*with* Gilliam, David S.; Isidori, Alberto; Ikeda, Yutaka; Marconi, Lorenzo) Internal model based design for the suppression of harmonic disturbances. (English summary) **2004h:93156**

Castelan, Eugênio B. (*with* Hennet, Jean-Claude; Llanos Villarreal, Elmer R.) Quadratic characterization and use of output stabilizable subspaces. (English summary) **2004b:93108**

Ceragioli, Francesca Some remarks on stabilization by means of discontinuous feedbacks. (English summary) **2004h:93157**

— *see also* **Bacciotti, Andrea, 2004k:93100**

Cervantes, Ilse (*with* Álvarez-Ramírez, J.) On the PID tracking control of robot manipulators. (English summary)

Chafiai, Abdelhakim *see* **Afifi, Larbi et al., 2004h:93150**

Chai, Shugen (*with* Guo, Yu Xia; Yao, Peng-Fei) Boundary feedback stabilization of shallow shells. (English summary) **2004h:93158**

Chee, Chin Yi (*with* Xu, Daolin) Control of the formation of projective synchronisation in lower-dimensional discrete-time systems. (English summary)

Chellaboina, Vijaya-Sekhar (*with* Haddad, Wassim M.) Exponentially dissipative nonlinear dynamical systems: a nonlinear extension of strict positive realness. **2004i:93151**

Chen, Cailian (*with* Feng, Gang[1]; Guan, Xin Ping) Robust synchronization of chaotic Lur'e systems via delayed feedback control. (English summary)

Chen, Guanrong *see* **Barajas-Ramírez, Juan-Gonzalo et al., 2004d:93106; Lu, Zhao et al., 2004d:93115; Wang, Xiao Fan, 2004h:93169; Jiang, Guo-Ping et al., 2004i:93156; Liao, Xiao Xin, 2004j:93106; Liu, Shu Tang[2], 2004m:93111; Ueta, Tetsushi et al., (2004e:93002)** *and* **Guan, Zhi-Hong et al.**

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Chen, Qi-hong *see* **Fei, Shumin et al.**

Chen, Wen De *see* **Tao, Yue Gang**

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Chen, Xiang[3] (*with* Tahmasebi, Ali; Gu, Guoxiang) Local robustness of bifurcation stabilization with applications to jet engine control. (English summary) **2004i:93152**

Chen, Yue Peng *see* **Zhai, Ding et al.**

Chen, Zhiyong (*with* Huang, Jie[1]) Solution of output regulation of singular nonlinear systems by normal output feedback. (English summary) **2004c:93088**

Cheng, Dai Zhan (*with* Shen, Tielong; Tarn, Tzyh-Jong) Pseudo-Hamiltonian realization and its application. (English summary) **2004a:93070**

— Stabilization via polynomial Lyapunov function. **2004k:93102**

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— Stabilization of planar switched systems. (English summary) **2004k:93103**

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Cheng, Zhao Lin *see* **Zhu, Jian Dong**

Chentouf, Boumediène Boundary feedback stabilization of a variant of the SCOLE model. (English summary) **2004a:93071**

Chhabra, D. *see* **Astolfi, Alessandro et al.**

Chitour, Yacine (*with* Lin, Zongli) Finite gain l_p stabilization of discrete-time linear systems subject to actuator saturation: the case of $p = 1$. (English summary) **2004k:93104**

Chizhonkov, E. V. Numerical aspects of one stabilization method. (English summary) **2004j:93103**

Chu, Jian *see* **Mao, Wei Jie, 2004d:93116**

Chua, Leon O. *see* **Tian, Yu Ping[1] et al., 2004m:93113**

Clarke, Francis H. (*with* Stern, Ronald Jay) State constrained feedback stabilization. (English summary) **2004b:93109**

Cloutier, James R. *see* **Shamma, Jeff S., 2004a:93078**

Coron, Jean-Michel *see* **D'Andréa-Novel, B., 2004h:93151**

Cortés, Jorge *see* **Martínez, Sonia et al., 2004c:93101**

Cossi, Lúcia *see* **Oliveira, Vilma A. et al., 2004e:93082**

Cottenceau, Bertrand (*with* Lhommeau, Mehdi; Hardouin, Laurent; Boimond, Jean-Louis) On timed event graph stabilization by output feedback in dioid. (English summary) **2004f:93103**

Czarnecki, Marc-Olivier *see* **Attouch, Hedy, 2004a:93068**

Dai, Guan Zhong *see* **Ye, Hua Wen et al.**

D'Andréa-Novel, B. (*with* Coron, Jean-Michel) Stabilization of an overhead crane with a variable length flexible cable. (English summary) **2004h:93151**

Datta, Kanti B. *see* **Baksi, Dibyendu et al., 2004b:93107** *and* **2004j:93100**

De Leenheer, Patrick (*with* Aeyels, Dirk) Stabilization of positive linear systems. (English summary) **2004f:93104**

Delinić, Krešimir *see* **Veselić, Krešimir et al., 2004g:93132**

Deng, Fei-qi *see* **Luo, Qi et al.**

Deutscher, Joachim A linear differential operator approach to flatness based tracking for linear and non-linear systems. (English summary) **2004d:93107**

Dimitrova, Neli *see* **Krastanov, Mikhail, (2004j:65007)**

Dong, Ya Li (*with* Cheng, Dai Zhan; Qin, Huashu) Feedback stabilization via designed planar centre manifold. (English summary) **2004m:93105**

Dower, Peter M. A variational inequality for measurement feedback almost-dissipative control. (English summary) **2004h:93159**

Duan, Guang Ren *see* **Guan, Xin Ping et al., 2004d:93111a**

Dusser, Xavier (*with* Rabah, Rabah) On exponential stabilizability of linear neutral systems. (English summary)

Ebert, Wolfram Optimal filtered predictive control—a delta operator approach. (English summary)

El-Gohary, Awad I. (*with* Bukhari, Fawzy A.) Optimal control of stochastic prey-predator models. (English summary) **2004i:93153**

— (*with* Al-Ruzaiza, A. S.) Optimal control of non-homogeneous prey-predator models during infinite and finite time intervals. (English summary) **2004i:93154**

Elia, Nicola *see* **Liu, Jialing, 2004m:93110**

Elkhattat, Abderahmane *see* **Yebari, Naji, 2004f:93117**

Espinosa-Pérez, Gerardo *see* **Álvarez-Ramírez, J., 2004g:93119**

Fang, Jian'an (*with* Gu, Guoxiang; Liu, Kang-Zhi) Stability analysis for nonlinear feedback control systems with linear actuators. (English summary) **2004b:93110**

Fantoni, I. *see* **Zavala-Río, Arturo et al.**

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Feintuch, Avraham Optimal robust disturbance attenuation for linear time-varying systems. (English summary) **2004f:93105**

Feki, Moez A result on the stabilization of nonlinear systems using state detection. (English summary) **2004c:93089**

Feng, De-Xing *see* **Feng, Shaoji, 2004c:93090** *and* **Yan, Qing Xu et al.**

Feng, Gang[1] *see* **Xi, Zairong et al., 2004j:93110** *and* **Chen, Cailian et al.**

Feng, Ru Peng *see* **Huang, Lilian et al.**

Feng, Shaoji (*with* Feng, De-Xing) Nonlinear boundary stabilization of wave equations

with variable coefficients. (English summary) **2004c:93090**

Ferrara, Antonella *see* **Bartolini, Giorgio et al., 2004h:93153**

Findeisen, Rolf (*with* Imsland, Lars; Allgöwer, Frank; Foss, Bjarne A.) Output feedback stabilization of constrained systems with nonlinear predictive control. (English summary) **2004c:93091**

Florchinger, Patrick Stabilization of passive nonlinear stochastic differential systems by bounded feedback. (English summary) **2004g:93124**

Fomichev, V. V. (*with* Shepit'ko, A. S.) A sufficient condition for stabilization of bilinear systems in a plane. (English summary) **2004d:93109**

— *see also* **Nosov, A. P., 2004d:93117**

Fontes, Fernando A. C. C. A general framework to design stabilizing nonlinear model predictive controllers. (English summary)

Foss, Bjarne A. *see* **Findeisen, Rolf et al., 2004c:93091** *and* **Imsland, Lars, 2004h:93161**

Fridman, Leonid M. (*with* Strygin, V. V.; Polyakov, A. E.) Stabilization of amplitude of oscillations via relay delay control. (English summary) **2004c:93092**

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Fujimoto, Kenji (*with* Sugie, Toshiharu) Canonical transformation and stabilization of generalized Hamiltonian systems. (English summary)

— (*with* Sugie, Toshiharu) Stabilization of Hamiltonian systems with nonholonomic constraints based on time-varying generalized canonical transformations. (English summary) **2004f:93106**

Funahashi, Yasuyuki *see* **Yamada, Manabu et al., 2004k:93121**

Fursikov, Andrei V. Real processes and realizability of a stabilization method for the Navier-Stokes equations by boundary feedback control. (English summary) **2004b:93111**

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Furuta, Katsuhisa *see* **Gabasov, R. et al., 2004f:93108**

Gabasov, R. (*with* Kirillova, F. M.) Stabilization of dynamic systems by bounded feedbacks. (English summary) **2004c:93093**

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Gao, Hui Jun *see* **Li, Yan Hui[2] et al.**

Gao, Ping[1] (*with* Zhao, Yi[1]) Boundary stabilization for the general Korteweg-de Vries-Burgers equation. (English and Chinese summaries) **2004d:93110**

Gavioli, Andrea *see* **Benassi, Carlo, 2004h:93154**

Ge, Shuzhi Sam *see* **Sun, Zhendong et al., 2004f:93116**

Ge, Zhao Qiang *see* **Liu, Ya Xiang et al.**

Giacomini, Luisa *see* **Bartolini, Giorgio et al., 2004h:93153**

Gilliam, David S. *see* **Byrnes, Christopher I. et al., 2004h:93156**

Glowinski, Roland (*with* He, Jiwen) Dirichlet feedback control for the stabilization of the wave equation: a numerical approach. (English summary) **2004j:93104**

Gong, Qi *see* **Lin, Wei[2], 2004a:93074**

Gorshkov, A. V. Stabilization of linear parabolic equations defined in an exterior of a bounded domain by a boundary control. (English summary) **2004k:93108**

Grigoriadis, Karolos M. *see* **Tan, Kan, 2004g:93131**

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Gu, Guoxiang *see* **Fang, Jian'an et al., 2004b:93110** *and* **Chen, Xiang[3] et al., 2004i:93152**

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— A new approach of stabilization of nondissipative distributed systems. (English summary) **2004m:93106**

Gui, Wei Hua *see* **Liu, Biyu**

Gündeş, Nazlı A. *see* **Özgüler, A. Bülent**

Guo, Bao Zhu *see* **Xie, Yu** *and* **Yao, Cui Zhen**

Guo, Lei[1] On stabilization of switched linear systems. (English summary) **2004a:93072**

Guo, Yu Xia *see* **Chai, Shugen et al., 2004h:93158**

Haddad, Wassim M. *see* **Chellaboina, Vijaya-Sekhar, 2004i:93151** *and* **Hayakawa, Tomohisa et al., 2004k:93110**

Hagen, Gregory (*with* Mezić, Igor) Spillover stabilization in finite-dimensional control and observer design for dissipative evolution equations. (English summary) **2004c:93094**

Hamzi, Boumediene (*with* Krener, Arthur J.) Practical stabilization of systems with a fold control bifurcation. **2004k:93109**

Han, Jian *see* **Saberi, Ali et al., 2004j:93107**

Han, Zheng Zhi *see* **Chen, Mao Yin et al.**

Hardouin, Laurent *see* **Cottenceau, Bertrand et al., 2004f:93103**

Hatfield, Jay *see* **Grimm, Gene et al., 2004e:93076**

Havre, Kjetil (*with* Skogestad, Sigurd) Selection of variables for stabilizing control using pole vectors. (English summary) **2004g:93125**

Hayakawa, Tomohisa (*with* Haddad, Wassim M.; Leonessa, Alexander) A Lyapunov-based adaptive control framework for discrete-time non-linear systems with exogenous disturbances. (English summary) **2004k:93110**

He, Jiwen *see* **Glowinski, Roland, 2004j:93104**

He, Ke-Zhong *see* **Liu, Hua Ping et al.**

Hébrard, Pascal (*with* Henrot, Antoine) Optimal shape and position of the actuators for the stabilization of a string. (English summary) **2004i:93155**

Hedrick, J. Karl *see* **Song, Bongsob, 2004k:93119**

Hennet, Jean-Claude *see* **Castelan, Eugênio B. et al., 2004b:93108**

Henríquez, Hernán R. Stabilization of hereditary distributed parameter control systems. (English summary) **2004g:93126**

Henrot, Antoine *see* **Hébrard, Pascal, 2004i:93155**

Hernández, Vicente G. *see* **Benner, Peter et al., 2004h:93155**

Ho, Daniel W. C. *see* **Lu, Guo Ping, 2004g:93127**

Hong, Yiguang Finite-time stabilization and stabilizability of a class of controllable systems. (English summary) **2004h:93160**

Horowitz, Isaac M. *see* **Baños, Alfonso, 2004k:93101**

Hu, Tingshu (*with* Lin, Zongli; Shamash, Yacov) Semi-global stabilization with guaranteed regional performance of linear systems subject to actuator saturation. (English summary)

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Hua, Chang Chun *see* **Guan, Xin Ping et al., 2004d:93111a**

Huang, Fa Lun *see* **Zhang, Qiong, 2004m:93115**

Huang, Jeng Tze Sufficient conditions for parameter convergence in linearizable systems. (English summary) **2004c:93095**

Huang, Jie[1] *see* **Chen, Zhiyong, 2004c:93088** *and* **Lan, Weiyao, 2004d:93113**

Huang, Lilian (*with* Feng, Ru Peng; Wang, Mao) Synchronization of chaotic systems via nonlinear control. (English summary)

Huang, Xianqing *see* **Lin, Wei[2] et al., 2004i:93157**

Huang, Zhi Long *see* **Zhu, W. Q., 2004g:93133**

Huo, Wei *see* **Ma, Bao Li, 2004e:93081** *and* **Sun, Zhendong et al., 2004f:93116**

Ichikawa, Akira *see* **Nakura, Gou, 2004i:93158**

Iggidr, A. *see* **Mazenc, Frédéric, 2004k:93116**

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Ikeda, Yutaka *see* **Byrnes, Christopher I. et al., 2004h:93156**

Imsland, Lars (*with* Foss, Bjarne A.) State feedback set stabilization for a class of nonlinear systems. (English summary) **2004h:93161**

— *see also* **Findeisen, Rolf et al., 2004c:93091**

Isidori, Alberto *see* **Byrnes, Christopher I. et al., 2004h:93156**

Ito, Kazuho Numerical study for the stability of a geometrically nonlinear elastic beam with velocity feedback. (English summary) **2004c:93096**

Izrailovich, M. Ya. Parametrically controlled quasiharmonic regimes of auto-oscillations and forced oscillations: elimination of ambiguity. (Russian) **2004k:93111**

Jabbari, Faryar *see* **Kim, Kyung-Soo**

Jeltsema, Dimitri *see* **Ortega, Romeo et al., 2004k:93117**

Jerbi, Hamadi Global feedback stabilization of new class of bilinear systems. (English summary)

— On the stabilizability of homogeneous systems of odd degree. (English summary) **2004a:93073**

Jetto, L. Regional assignment of invariant polynomial roots with stable controllers. (English summary) **2004e:93078**

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Jiang, Guo-Ping (*with* Zheng, Wei Xing[1]; Chen, Guanrong) Global chaos synchronization with channel time-delay. (English summary) **2004i:93156**

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Kawakami, Hiroshi *see* **Ueta, Tetsushi et al., (2004e:93002)**

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Keel, L. H. *see* **Tantaris, R. N. et al., 2004c:93105** *and* **Sathananthan, S., 2004f:93114**

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Kong, Zhi Qiang *see* **Liu, Ding et al.**

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Krstić, Miroslav *see* **Bošković, Dejan M. et al., 2004f:93101** *and* **Liu, Wei-Jiu, 2004h:93163**

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Kučera, Vladimír Parametrization of stabilizing controllers with applications. (English summary) (*see* **2004k:93003**)
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Kwon, Wook Hyun *see* **Lee, Kwan Ho et al., 2004e:93080**
Laabissi, Mohamed *see* **Achhab, Mohamed E.**
Lam, James *see* **Gałkowski, Krzysztof et al., 2004e:93075**
Lan, Weiyao (*with* Huang, Jie[1]) Semiglobal stabilization and output regulation of singular linear systems with input saturation. (English summary) **2004d:93113**
Larin, Vladimir B. Stabilization of the system by static output feedback. (English summary) **2004f:93109**
Laval, Laurent (*with* M'Sirdi, Nacer K.) On stabilizing n-dimensional chaotic systems. (English summary) **2004b:93112**
Lee, Joon Hwa *see* **Lee, Kwan Ho et al., 2004e:93080**
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Lee, Tong Heng *see* **Sun, Zhendong et al., 2004f:93116**
Lefter, Cătălin *see* **Barbu, Viorel, 2004j:93102**
Leonessa, Alexander *see* **Hayakawa, Tomohisa et al., 2004k:93110**
de León Morales, Jesús *see* **Loría, Antonio, 2004b:93113**
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Li, Shu-gang Stabilization of the phase-field system via internal feedback control. (English summary) **2004m:93108**
Li, Xiang (*with* Weng, Pei Xuan) Impulsive stabilization of two kinds of second-order linear delay differential equations. (English summary) **2004m:93109**
Li, Yan Hui[2] (*with* Wang, Chang Hong[1]; Gao, Hui Jun) Neural network algorithm for stabilizing control of robustness in systems. (Chinese. English and Chinese summaries)
Li, Yuan *see* **Wang, Wen Tao et al.**
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Liao, Xiao Xin (*with* Chen, Guanrong) On feedback-controlled synchronization of chaotic systems. (English summary) **2004j:93106**
— *see also* **Zhang, Gang[2]** *and* **Liu, Bin[6] et al.**
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— *see also* **Bi, Wei Ping et al.**
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— *see also* **Qian, Chunjiang, 2004k:93118**
Lin, Zhiping *see* **Gałkowski, Krzysztof et al., 2004e:93075**
Lin, Zongli (*with* Hu, Tingshu) Semi-global stabilization of linear systems subject to output saturation. (English summary)
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Liu, Jialing (*with* Elia, Nicola) Quantized feedback stabilization of non-linear affine systems. (English summary) **2004m:93110**
Liu, Jian-feng *see* **Song, Wei-jun, 2004k:93120**
Liu, Kang Sheng (*with* Liu, Zhuangyi) Boundary stabilization of nonhomogeneous beam by the frequency domain multiplier method. (English summary) **2004h:93162**
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Liu, Kang-Zhi *see* **Fang, Jian'an et al., 2004b:93110**
Liu, Pin-Lin Stabilization of singularly perturbed multiple-time-delay systems with a saturating actuator. (English summary) **2004a:93076**
Liu, Shu Tang[2] (*with* Chen, Guanrong) Nonlinear feedback-controlled generalized synchronization of spatial chaos. (English summary) **2004m:93111**
Liu, Wei-Jiu (*with* Krstić, Miroslav) Global boundary stabilization of the Korteweg-de Vries-Burgers equation. (English summary) **2004h:93163**
— Boundary feedback stabilization of an unstable heat equation. (English summary) **2004f:93110**
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Liu, Zhuangyi *see* **Liu, Kang Sheng, 2004h:93162**
Llanos Villarreal, Elmer R. *see* **Castelan, Eugênio B. et al., 2004b:93108**
Lobanova, M. V. *see* **Fardigola, L. V., 2004k:93105**
Loginov, Alekseĭ Alekseevich Resonance dynamic stabilization of an inverted pendulum with two degrees of freedom. (Russian. English, Russian and Ukrainian summaries)
Lonngren, Karl E. *see* **Uçar, Ahmet et al., 2004j:93109**
Loría, Antonio (*with* de León Morales, Jesús) On persistently exciting observers and a non-linear separation principle: application to the stabilization of a generator. (English summary) **2004b:93113**
Lozano Leal, Rogelio *see* **Zavala-Río, Arturo et al.**
Lu, Guo Ping (*with* Ho, Daniel W. C.) Quadratic stabilization for nonlinear perturbed discrete time-delay systems. (English summary) **2004g:93127**
Lu, Zhao (*with* Shieh, Leang-San; Chen, Guanrong) On robust control of uncertain chaotic systems: a sliding-mode synthesis via chaotic optimization. (English summary) **2004d:93115**
Luo, Qi (*with* Deng, Fei-qi; Bao, Jun-dong) Robust dissipative control for nonlinear system with sector input. (English summary)
Luo, Zhi Guo[1] (*with* Shen, Jian Hua) Impulsive stabilization of functional differential equations with infinite delays. (English summary) **2004c:93099**
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— Stabilization of a class of second-order nonholonomic systems. (Chinese. English and Chinese summaries)
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Mailleret, Ludovic Positive control for a class of nonlinear positive systems. (English summary) **2004k:93114**
Mäkilä, Pertti M. When is a linear convolution system stabilizable? (English summary) **2004g:93128**
Maksimov, Vyacheslav I. *see* **Kryazhimskiĭ, Arkadiĭ V., 2004m:93107**
Mao, Wei Jie (*with* Chu, Jian) Quadratic stability and stabilization of dynamic interval systems. (English summary) **2004d:93116**
Marchenko, Vladimir Matveevich (*with* Yakimenko, A. A.) On the stabilization of systems of neutral type. (Russian. Russian summary) **2004k:93115**
Marconi, Lorenzo *see* **Byrnes, Christopher I. et al., 2004h:93156**
Marquez, H. J. *see* **Polushin, I. G., 2004d:93118**
Martin, Marcus R. W. *see* **Büger, Matthias, 2004f:93102**
Martínez, Sonia (*with* Cortés, Jorge; Bullo, Francesco) Analysis and design of oscillatory control systems. (English summary) **2004c:93101**
Martínez Pastor, A. *see* **Benner, Peter et al., 2004h:93155**
Mazenc, Frédéric (*with* Iggidr, A.) Backstepping with bounded feedbacks. (English summary) **2004k:93116**
McCaffrey, David Charles (*with* Banks, S. P.) Lagrangian manifolds and asymptotically optimal stabilizing feedback control. (English summary) **2004f:93111**
Megan, Mihail (*with* Sasu, Adina Luminiţa; Sasu, Bogdan) Stabilizability and controllability of systems associated to linear skew-product semiflows. (English summary) **2004b:93114**
Meinsma, Gjerrit *see* **Prajna, Stephen et al., 2004h:93166**
Mezić, Igor *see* **Hagen, Gregory, 2004c:93094**
Miani, Stefano *see* **Blanchini, Franco, 2004c:93087**
Michalska, Hannah H. (*with* Torres-Torriti, Miguel) A geometric approach to feedback stabilization of nonlinear systems with drift. (English summary) **2004h:93165**
Miller, Daniel E. (*with* Kennedy, Diane) Simultaneous stabilization with near-optimal model reference tracking. (English summary) **2004f:93112**
Miller, Luc Escape function conditions for the observation, control, and stabilization of the wave equation. (English summary) **2004b:93115**
Moog, Claude H. *see* **Pothin, Richard et al., 2004b:93116**
Morgül, Ömer On the stability of delayed feedback controllers. (English summary)
Moukam Kakmeni, F. M. (*with* Bowong, Samuel; Tchawoua, Clement; Kaptouom, Ernest) Chaos control and synchronization of a Φ^6-Van der Pol oscillator. (English summary)
M'Sirdi, Nacer K. *see* **Laval, Laurent, 2004b:93112**
Mu, Xiao Wu *see* **Bi, Wei Ping et al.**
Mutoh, Yasuhiko *see* **Kase, W.**
Nakura, Gou (*with* Ichikawa, Akira) Stabilization of a nonlinear jump system. (English summary) **2004i:93158**
Nambu, Takao Stability enhancement of output for a class of linear parabolic systems. (English summary) **2004a:93077**
(Nguang, Sing Kiong) *see* **Guan, Xin Ping et al., 2004d:93111a** *and* **Li, Guangwei[1] et al., 2004d:93111b**
Nicaise, Serge (*with* Pignotti, Cristina) Boundary stabilization of Maxwell's equations with space-time variable coefficients. (English summary) **2004g:93129**
Nijmeijer, Henk *see* **Santoboni, Giovanni et al., 2004b:93117**
Nosov, A. P. (*with* Fomichev, V. V.) Output feedback stabilization of systems with uncertainty. (English summary) **2004d:93117**
Oliveira, Vilma A. (*with* Teixeira, Marcelo C. M.; Cossi, Lúcia) Stabilizing a class of time delay systems using the Hermite-Biehler theorem. (English summary) **2004e:93082**
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— *see also* **Astolfi, Alessandro et al., 2004c:93085** *and* **Rodríguez, Hugo**
Oucheriah, Said Exponential stabilization of linear delayed systems using sliding-mode controllers. (English summary) **2004g:93130**
Özgüler, A. Bülent (*with* Gündeş, Nazlı A.) Some positive results in simultaneous stabilization. (English summary)
Pakshin, P. V. Robust high moment stabilizing control for stochastic systems with jumps. **2004c:93102**
Pan, Jie[1] *see* **Khac Duc Do et al.**
Perez, Jose P. *see* **Sanchez, Edgar N. et al., (2004e:93002)**
Petzeltová, Hana *see* **Aizicovici, Sergiu, 2004d:93105**

Pignotti, Cristina *see* **Nicaise, Serge**, **2004g:93129**
Pogromsky, Alexander Yu. *see* **Santoboni, Giovanni et al.**, **2004b:93117**
Polushin, I. G. (*with* Marquez, H. J.) Stabilization of bilaterally controlled teleoperators with communication delay: an ISS approach. (English summary) **2004d:93118**
Polyakov, A. E. *see* **Fridman, Leonid M. et al.**, **2004c:93092** *and* **2004k:93106**
Popescu, Dan[2] (*with* Răsvan, Vladimir) Improved dynamic properties by feedback for systems with delay in control. (English summary) **2004f:93113**
Postlethwaite, Ian *see* **Grimm, Gene et al.**, **2004e:93076**
Pothin, Richard (*with* Moog, Claude H.; Xia, Xiao Hua) Disturbance decoupling of nonlinear MISO systems by static measurement feedback. (English summary) **2004b:93116**
Prajna, Stephen (*with* van der Schaft, A. J.; Meinsma, Gjerrit) An LMI approach to stabilization of linear port-controlled Hamiltonian systems. (English summary) **2004h:93166**
— (*with* Rantzer, Anders) On homogeneous density functions. (English summary) **2004h:93167**
Qian, Chunjiang (*with* Lin, Wei[2]) Non-Lipschitz continuous stabilizers for nonlinear systems with uncontrollable unstable linearization. (English summary)
— (*with* Lin, Wei[2]) Nonsmooth output feedback stabilization of a class of genuinely nonlinear systems in the plane. (English summary) **2004k:93118**
— *see also* **Lin, Wei[2] et al.**, **2004i:93157**
Qin, Huashu *see* **Dong, Ya Li et al.**, **2004m:93105**
Quiroz M., Ernesto *see* **Acho Zuppa, Leonardo**
Rabah, Rabah *see* **Dusser, Xavier**
Rantzer, Anders *see* **Prajna, Stephen**, **2004h:93167**
Rastović, Danilo Feedback stabilization of some classes of nonlinear transport systems. (English summary) **2004c:93103**
Răsvan, Vladimir *see* **Popescu, Dan[2]**, **2004f:93113**
Ray, Goshaidas *see* **Baksi, Dibyendu et al.**, **2004b:93107** *and* **2004j:93100**
Raymond, Jean-Pierre *see* **Anița, Sebastian[2]**, **2004h:93152**
Rehman, Fazal-Ur Stabilizing feedback control for a nonholonomic underwater vehicle using model reference approach. (English summary)
Ren, Hai Peng *see* **Liu, Ding et al.**
Rezunenko, A. V. *see* **Sklyar, Grigory M.**, **2004i:93161**
Ricalde, Luis J. *see* **Sanchez, Edgar N. et al.**, **(2004e:93002)**
Rodríguez, Hugo (*with* Ortega, Romeo) Stabilization of electomechanical systems via interconnection and damping assignment. (English summary)
Rosinová, Danica (*with* Veselý, Vojtech; Kučera, Vladimír) A necessary and sufficient condition for static output feedback stabilizability of linear discrete-time systems. (English summary) **2004i:93159**
Ruzhitskaya, E. A. *see* **Gabasov, R. et al.**, **2004f:93108**
Ryan, E. P. Asymptotic behaviour of feedback controlled systems and the ubiquity of the Brockett-Krasnosel'skiĭ-Zabreĭko property. (English summary) **2004d:93119**
Saberi, Ali (*with* Shi, Guoyong; Stoorvogel, Anton A.; Han, Jian) Constrained stabilization problems for discrete-time linear plants. (English summary) **2004j:93107**
— *see also* **Shi, Guoyong et al.**, **2004e:93083**
Sanchez, Edgar N. (*with* Perez, Jose P.; Ricalde, Luis J.) Neural network design for chaos synchronization. (English summary) (*see* **2004e:93002**)
Sannuti, Peddapullaiah *see* **Shi, Guoyong et al.**, **2004e:93083**
Santoboni, Giovanni (*with* Pogromsky, Alexander Yu.; Nijmeijer, Henk) Partial observers and partial synchronization. (English summary) **2004b:93117**
Sasu, Adina Luminița *see* **Megan, Mihail et al.**, **2004b:93114**
Sasu, Bogdan *see* **Megan, Mihail et al.**, **2004b:93114**
Sathananthan, S. (*with* Keel, L. H.) Optimal practical stabilization and controllability of systems with Markovian jumps. (English summary) **2004f:93114**
van der Schaft, A. J. *see* **Prajna, Stephen et al.**, **2004h:93166**
Scherpen, Jacquelien M. A. *see* **Ortega, Romeo et al.**, **2004k:93117**
de la Sen, Manuel Sufficiency-type stability and stabilization criteria for linear time-invariant systems with constant point delays. (English and Lithuanian summaries) **2004i:93160**
— *see also* **Alonso-Quesada, S.**, **2004c:93084**
Shahruz, S. M. (*with* Siva, L. R.) Suppression of chaos in a class of non-linear systems by disturbance observers.
Shamash, Yacov *see* **Hu, Tingshu et al.**
Shamma, Jeff S. (*with* Cloutier, James R.) Existence of SDRE stabilizing feedback. (English summary) **2004a:93078**
Shang, Yun *see* **Chen, Mao Yin et al.**
Shcherbak, V. F. *see* **Kovalev, A. M. et al.**, **2004e:93079**
Shen, Jian Hua *see* **Luo, Zhi Guo[1]**, **2004c:93099**
Shen, Jie[3] *see* **Fei, Shumin et al.**
Shen, Tielong *see* **Cheng, Dai Zhan et al.**, **2004a:93070**
Shen, Xuemin *see* **Liu, Xinzhi**, **2004h:93164**
Shepit'ko, A. S. *see* **Fomichev, V. V.**, **2004d:93109**
Sheveleva, Yu. V. *see* **Fardigola, L. V.**
Shi, Guoyong (*with* Saberi, Ali; Stoorvogel, Anton A.; Sannuti, Peddapullaiah) Output regulation of discrete-time linear plants subject to state and input constraints. (English summary) **2004e:93083**
— *see also* **Saberi, Ali et al.**, **2004j:93107**
Shi, Peng (*with* Boukas, El-Kébir; Shi, Yan) On stochastic stabilization of discrete-time Markovian jump systems with delay in state. (English summary) **2004c:93104**
— *see also* **Mahmoud, Magdi S. et al.**, **2004c:93100**
Shi, Song Jiao *see* **Li, Zhi[1]**, **2004d:93114**
Shi, Yan *see* **Mahmoud, Magdi S. et al.**, **2004c:93100** *and* **Shi, Peng et al.**, **2004c:93104**
Shieh, Leang-San *see* **Barajas-Ramírez, Juan-Gonzalo et al.**, **2004d:93106** *and* **Lu, Zhao et al.**, **2004d:93115**
Shiriaev, A. S. *see* **Kolesnichenko, O.**, **2004j:93105**
Šiljak, Dragoslav D. *see* **Zecevic, A. I.**, **2004d:93121**
Siva, L. R. *see* **Shahruz, S. M.**
Sklyar, Grigory M. (*with* Rezunenko, A. V.) Strong asymptotic stability and constructing of stabilizing controls. (English summary) **2004i:93161**
Skogestad, Sigurd *see* **Havre, Kjetil**, **2004g:93125**
Smirnov, N. V. Synthesis of state descriptors in the problem of multiprogram stabilization of bilinear systems. (Russian. Russian summary) **2004a:93079**
— Optimal multiprogrammed stabilization of linear systems. (English summary)
Soh, Yeng Chai *see* **Lee, Peng Hin**, **2004k:93113**
Song, Bongsob (*with* Hedrick, J. Karl) Simultaneous quadratic stabilization for a class of non-linear systems with input saturation using dynamic surface control. (English summary) **2004k:93119**
Song, Wei-jun (*with* Liu, Jian-feng) Stabilizability conditions for strictly bilinear systems with time-delays in control. (English and Chinese summaries) **2004k:93120**
Sontag, Eduardo D. (*with* Krichman, Mikhail) An example of a GAS system which can be destabilized by an integrable perturbation. (English summary) **2004d:93120**
Sparks, Rebecca On bounds for the existence of a bistable controller. (English summary) **2004i:93162**
Sritharan, S. S. *see* **Barbu, Viorel**, **(2004i:47002)**
Staffans, Olof J. Stabilization by collocated feedback. (English summary) **2004h:93168**
Stern, Ronald Jay Brockett's stabilization condition under state constraints. (English summary) **2004f:93115**
— *see also* **Clarke, Francis H.**, **2004b:93109**
Stoorvogel, Anton A. *see* **Shi, Guoyong et al.**, **2004e:93083** *and* **Saberi, Ali et al.**, **2004j:93107**
Strygin, V. V. *see* **Fridman, Leonid M. et al.**, **2004c:93092** *and* **2004k:93106**
Sugie, Toshiharu *see* **Fujimoto, Kenji**, **2004f:93106**
Sun, Fu-Chun *see* **Liu, Hua Ping et al.**
Sun, Ji Tao (*with* Zhang, Yinping) Impulsive control of a nuclear spin generator. (English summary) **2004e:93084**
— Some global synchronization criteria for coupled delay-systems via unidirectional linear error feedback approach. (English summary)
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Sun, Zeng-Qi *see* **Liu, Hua Ping et al.**
Sun, Zhendong (*with* Ge, Shuzhi Sam; Huo, Wei; Lee, Tong Heng) Stabilization of nonholonomic chained systems via nonregular feedback linearization. (English summary) **2004f:93116**
— (*with* Ge, Shuzhi Sam) Dynamic output feedback stabilization of a class of switched linear systems. (English summary)
Sundarapandian, V. A relation between the output regulation and the observer design for nonlinear systems. (English summary) **2004a:93080**
Suykens, Johan (*with* Yalçın, Mustak; Vandewalle, Joos) Chaotic systems synchronization. (English summary) (*see* **2004e:93002**)
Tahmasebi, Ali *see* **Chen, Xiang[3] et al.**, **2004i:93152**
Tam, C. M. *see* **Li, Qing Shan et al.**
Tan, Kan (*with* Grigoriadis, Karolos M.) Stabilization and H^∞ control of symmetric systems: an explicit solution. (English summary) **2004g:93131**
Tang, J. *see* **Li, Qing Shan et al.**
Tantaris, R. N. (*with* Keel, L. H.; Bhattacharyya, Shankar Prashad) Stabilization of discrete-time systems by first-order controllers. (English summary) **2004c:93105**
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Tao, Yue Gang (*with* Chen, Wen De) Partial merging assignment of cycle times and stabilization for nonlinear DEDS. (Chinese. English and Chinese summaries)
Tarn, Tzyh-Jong *see* **Cheng, Dai Zhan et al.**, **2004a:93070**
Taylor, Stephen W. *see* **Littman, Walter**, **2004a:93075**
Tchawoua, Clement *see* **Moukam Kakmeni, F. M. et al.**
Teel, Andrew R. *see* **Grimm, Gene et al.**, **2004e:93076**
Teixeira, Marcelo C. M. *see* **Oliveira, Vilma A. et al.**, **2004e:93082**
Tertychnyĭ-Dauri, V. Yu. Optimal stabilization of adaptive dynamical systems with distributed parameters. II. (Russian. Russian summary) **2004c:93106**
Tian, Yu Ping[1] (*with* Yu, Xinghuo) Time-delayed impulsive stabilization of unstable periodic orbits in chaotic hybrid systems. (English summary) (*see* **2004e:93002**)
— (*with* Yu, Xinghuo; Chua, Leon O.) Time-delayed impulsive control of chaotic hybrid systems. (English summary) **2004m:93113**
Torres-Torriti, Miguel *see* **Michalska, Hannah H.**, **2004h:93165**
Trentelman, H. L. *see* **Belur, Madhu N.**, **2004a:93069**
Tsinias, J. (*with* Tzamtzi, M. P.) An explicit formula of bounded feedback stabilizers for feedforward systems. (English summary) **2004j:93108**
— *see also* **Karafyllis, Iasson**, **2004c:93097**
Tucsnak, Marius *see* **Benavides Guzmán, Rogelio**, **2004i:93150**
Turner, Matthew C. *see* **Grimm, Gene et al.**, **2004e:93076**
Tzamtzi, M. P. *see* **Tsinias, J.**, **2004j:93108**
Uçar, Ahmet (*with* Lonngren, Karl E.; Bai, Er-Wei) Synchronization of the coupled FitzHugh-Nagumo systems. (English summary) **2004j:93109**
Ueta, Tetsushi (*with* Kawabe, Tohru; Chen, Guanrong; Kawakami, Hiroshi) Calculation and control of unstable periodic orbits in piecewise smooth dynamical systems. (English summary) (*see* **2004e:93002**)
Vandewalle, Joos *see* **Suykens, Johan et al.**, **(2004e:93002)**
Veselić, Krešimir (*with* Brabender, Katrin; Delinić, Krešimir) Passive control of linear systems. (English summary) **2004g:93132**
Veselý, Vojtech *see* **Rosinová, Danica et al.**, **2004i:93159**
Wan, Zhaoyang (*with* Kothare, Mayuresh V.) Efficient scheduled stabilizing model predictive control for constrained nonlinear systems. (English summary) **2004b:93118**
Wang, Chang Hong[1] *see* **Li, Yan Hui[2] et al.**
Wang, Gengsheng *see* **Barbu, Viorel**, **2004e:93074** *and* **2004j:93101**
Wang, Hong[5] *see* **Ye, Hua Wen et al.**
Wang, Hua O. *see* **Guan, Zhi-Hong et al.**
Wang, Ju Feng (*with* Sun, Ji Tao) Stabilization of time-delay systems with saturating controls. (Chinese. English and Chinese summaries)
Wang, Long[1] *see* **Xie, Guang Ming**, **2004h:93170**
Wang, Mao *see* **Huang, Lilian et al.**
Wang, Qing Chao *see* **Yu, Zhan Dong**
Wang, Wen Tao (*with* Li, Yuan; Liu, Xiao Ping[2]; Zhao, Jun[2]) Disturbance decoupling of nonlinear singular control systems. (Chinese. English and Chinese summaries)

Wang, Xiao Fan (*with* Chen, Guanrong) Synchronization in complex dynamical networks. (English summary) **2004h:93169**
Wang, Xiaochang A. On static output feedback stabilization of systems with stable generalized zero dynamics. (English summary) **2004i:93163**
Wang, Yan-Wu *see* **Guan, Zhi-Hong et al.**
Wehbe, A. Rational energy decay rate for a wave equation with dynamical control. (English summary) **2004b:93119**
Weng, Pei Xuan *see* **Li, Xiang**, **2004m:93109**
Xi, Zairong (*with* Feng, Gang[1]; Jiang, Zhong-Ping; Cheng, Dai Zhan) A switching algorithm for global exponential stabilization of uncertain chained systems. (English summary) **2004j:93110**
Xia, Xiao Hua *see* **Pothin, Richard et al.**, **2004b:93116**
Xie, Guang Ming (*with* Wang, Long[1]) Controllability and stabilizability of switched linear-systems. (English summary) **2004h:93170**
Xie, Yu (*with* Guo, Bao Zhu) Dirichlet boundary stabilization and Riesz basis property of the one-dimensional string equation. (Chinese. English and Chinese summaries)
Xie, Yu *see* **Yan, Qing Xu et al.**
Xu, Daolin *see* **Chee, Chin Yi**
Xu, Gen Qi (*with* Yung, Siu Pang) Stabilization of Timoshenko beam by means of pointwise controls. (English summary) **2004h:93171**
Xu, Sheng Yuan *see* **Gałkowski, Krzysztof et al.**, **2004e:93075**
Yakimenko, A. A. *see* **Marchenko, Vladimir Matveevich**, **2004k:93115**
Yalçın, Mustak *see* **Suykens, Johan et al.**, (**2004e:93002**)
Yamada, Manabu (*with* Funahashi, Yasuyuki; Yamaguchi, Masahiro) Parameterization of all multivariable ripple-free deadbeat tracking controllers. (English summary) **2004k:93121**
Yamaguchi, Masahiro *see* **Yamada, Manabu et al.**, **2004k:93121**
Yan, Qing Xu (*with* Xie, Yu; Feng, De-Xing) Nonlinear dissipative boundary feedback stabilization of Euler-Bernoulli beam. (English and Chinese summaries)
— (*with* Feng, De-Xing) Feedback stabilization of nonuniform Timoshenko beam with dynamical boundary. (English and Chinese summaries)
Yang, Xiao-Song On the possibility of globally stabilizing invariant sets. (English summary) **2004j:93111**
Yao, Cui Zhen (*with* Guo, Bao Zhu) Pointwise measure, control and stabilization of elastic beams. (Chinese. English and Chinese summaries)
Yao, Peng-Fei *see* **Chai, Shugen et al.**, **2004h:93158**
Ye, Hua Wen (*with* Dai, Guan Zhong; Wang, Hong[5]) New results in stabilization designs of cascaded nonlinear systems. (Chinese. English and Chinese summaries)
Yebari, Naji (*with* Elkhattat, Abderahmane) Stabilisation uniforme d'une équation des poutres d'Euler-Bernoulli. (French summary) [Uniform stabilization of an Euler-Bernoulli beam equation] **2004f:93117**
Yu, Xinghuo *see* **Tian, Yu Ping[1] et al.**, **2004m:93113** *and* (**2004e:93002**)
Yu, Zhan Dong (*with* Wang, Qing Chao) Adaptive backstepping neural control for a class of uncertain nonlinear systems. (Chinese. English and Chinese summaries)
Yung, Siu Pang *see* **Xu, Gen Qi**, **2004h:93171**
Zaccarian, Luca *see* **Grimm, Gene et al.**, **2004e:93076**
Zang, Chuanzhi *see* **Li, Guangwei[1] et al.**, **2004d:93111b**
Zavala-Río, Arturo (*with* Fantoni, I.; Lozano Leal, Rogelio) Global stabilization of a PVTOL aircraft model with bounded inputs. (English summary)
Zecevic, A. I. (*with* Šiljak, Dragoslav D.) Stabilization of nonlinear systems with moving equilibria. (English summary) **2004d:93121**
Zhai, Ding (*with* Zhang, Qing Ling; Chen, Yue Peng) Semiglobal decentralized stabilization for a class of composite systems with input saturation. (Chinese. English and Chinese summaries)
Zhang, Chun Guo (*with* Zhao, Hong Liang[1]; Liu, Kang Sheng) Exponential stabilization of a nonhomogeneous Timoshenko beam with the coupled control of locally distributed feedback and boundary feedback. (Chinese. English and Chinese summaries) **2004m:93114**
Zhang, Gang[2] (*with* Liao, Xiao Xin) Stabilization of DCNN with delay-type template and symmetrical parameters. (English summary)
Zhang, Jian *see* **Zhang, Zhifei et al.**
Zhang, Li Jun *see* **Cheng, Dai Zhan**, **2004g:93123**
Zhang, Nong *see* **Li, Qing Shan et al.**
Zhang, Qing Ling *see* **Zhai, Ding et al.**
Zhang, Qiong (*with* Huang, Fa Lun) Boundary stabilization for a hybrid system of viscoelasticity. (English summary) **2004m:93115**
Zhang, Yinping *see* **Sun, Ji Tao**, **2004e:93084**
Zhang, Zhifei (*with* Zhang, Jian; Jin, Jie) A stabilizing controller design for large-scale systems with time-varying delay. (English summary)
Zhao, Hong Liang[1] *see* **Zhang, Chun Guo et al.**, **2004m:93114**
Zhao, Jun[2] *see* **Wang, Wen Tao et al.**
Zhao, Yi[1] *see* **Gao, Ping[1]**, **2004d:93110** *and* **Chen, Xian Qiang**
Zheng, Wei Xing[1] *see* **Jiang, Guo-Ping et al.**, **2004i:93156**
Zhu, Jian Dong (*with* Cheng, Zhao Lin) Output regulation of singular nonlinear systems via output dynamic feedback. (English and Chinese summaries)
Zhu, W. Q. (*with* Huang, Zhi Long) Feedback stabilization of quasi-integrable Hamiltonian systems. (English summary) **2004g:93133**
Zuazua, Enrique *see* **Ortega, Jaime H.**, **2004m:93112**
Zuber, I. E. Stabilization of nonlinear observable systems by output. (English summary) **2004g:93134**
Zuev, A. L. *see* **Kovalev, A. M. et al.**, **2004e:93079**

Items listed otherwise than by author

Errata:
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Items with secondary classifications in 93D15

Abdelkrim, Mohamed Naceur *see* **Benrejeb, Mohamed**, **2004f:93077**
Aeyels, Dirk *see* **Moreau, Luc[2]**, **2004k:93126**
Agafonov, S. A. Stability and motion stabilization of nonconservative mechanical systems. **2004a:70029**
Alamir, Mazen (*with* Marchand, Nicolas) Constrained minimum-time-oriented feedback control for the stabilization of nonholonomic systems in chained form. (English summary) **2004h:93094**
Álvarez-Ramírez, J. *see* **Puebla, Hector et al.**, **2004h:93093**
de Andres-Toro, Bonifacio *see* **De la Cruz, Jesus M. et al.**
d'Anjou, A. *see* **Sarasola, C. et al.**, **2004a:37041**
Aranda, Joaquín *see* **De la Cruz, Jesus M. et al.**
Astolfi, Alessandro *see* **Ortega, Romeo et al.**, **2004i:93100**
Auckly, David (*with* Kapitanskiĭ, L. V.) On the λ-equations for matching control laws. (English summary) **2004b:93062**
Avdyushev, Victor A. Numerical stabilization of orbital motion. (English summary) **2004j:70026**
Ayala Bravo, Víctor *see* **Solís-Perales, G. et al.**, **2004d:37047**
Aziz-Alaoui, M. A. *see* **Derivière, Sara**, **2004m:37057**
(Baillieul, John) *see* **Bloch, Anthony M.**, **2004e:37099**
Banks, H. T. (*with* Furati, K. M.; Ito, Kazufumi; Luke, N. S.; Smith, Cassandra J.) Acoustic attenuation employing variable wall admittance. (English summary) **2004h:93096**
Bartolini, Giorgio (*with* Pisano, Alessandro) Global output-feedback tracking and load disturbance rejection for electrically-driven robotic manipulators with uncertain dynamics. (English summary)
Benaddi, Ahmed Optimal energy decay rate of coupled wave equations. (English summary) **2004k:35238**
Benassi, L. *see* **Elliott, S. J. et al.**
Benrejeb, Mohamed (*with* Abdelkrim, Mohamed Naceur) On order reduction and stabilization of TSK nonlinear fuzzy models by using arrow form matrix. (English summary) **2004f:93077**
Bewley, Thomas R. *see* **Lauga, Eric**, **2004e:76050**
Bhattacharyya, Shankar Prashad *see* **Keel, L. H. et al.**, **2004b:93054**
Bisognin, Eleni (*with* Bisognin, Vanilde; Perla Menzala, G.) Exponential stabilization of a coupled system of Korteweg-de Vries equations with localized damping. (English summary) **2004c:35349**
Bisognin, Vanilde *see* **Bisognin, Eleni et al.**, **2004c:35349**
Blanchini, Franco (*with* Pellegrino, Felice Andrea) Relatively optimal control and its linear implementation. (English summary) **2004k:49075**
Blanco, Yann (*with* Perruquetti, Wilfrid; Borne, Pierre) Stability and stabilization of nonlinear systems and Takagi-Sugeno's fuzzy models. (English summary)
Blasius, Bernd *see* **Montbrió, Ernest**, **2004b:34095**
Bloch, Anthony M. ★ Nonholonomic mechanics and control. **2004e:37099**
— *see also* **Zenkov, D. V. et al.**, **2004h:70033**
Bokor, József *see* **Hangos, K. M. et al.**, **2004m:93002**
Borne, Pierre (*with* Kolmanovskii, Vladimir B.; Shaikhet, Leonid E.) Steady-state solutions of nonlinear model of inverted pendulum. (English summary) **2004i:93190**
— *see also* **Blanco, Yann et al.**
Boscain, U. Projection singularities of extremals and Morse property for minimum time. (English summary) **2004d:49050**
Bošković, Dejan M. (*with* Krstić, Miroslav) Stabilization of a solid propellant rocket instability by state feedback. (English summary) **2004c:93078**
Boukas, El-Kébir *see* **Mehdi, D.**, **2004m:93069**
Boulet, Benoit *see* **Haurani, Ammar et al.**, **2004m:93119**
Bounit, Hamid (*with* Hammouri, H.) A separation principle for distributed dissipative bilinear systems. (English summary) **2004a:93039**
Bowong, Samuel (*with* Moukam Kakmeni, F. M.) Synchronization of uncertain chaotic systems via backstepping approach. (English summary)
Brennan, Michael John *see* **Elliott, S. J. et al.**
Brogliato, Bernard Some perspectives on the analysis and control of complementarity systems. (English summary) **2004g:93086**
Cantoni, Michael (*with* Vinnicombe, Glenn) Linear feedback systems and the graph topology. (English summary) **2004c:93051**
Caraballo Garrido, Tomás (*with* Garrido-Atienza, María J.; Real Anguas, José) Stochastic stabilization of differential systems with general decay rate. (English summary) **2004h:93195**
Cârjă, Ovidiu Weakly decreasing systems in Hilbert spaces. (English summary) **2004g:34014**
Casarino, Valentina (*with* Engel, Klaus-Jochen; Nagel, Rainer; Nickel, Gregor) A semigroup approach to boundary feedback systems. (English summary) **2004j:34128**
Cervantes, Ilse *see* **Puebla, Hector et al.**, **2004h:93093**
Chatterjee, Debasish (*with* Patra, Amit; Joglekar, Harish K.) Swing-up and stabilization of a cart-pendulum system under restricted cart track length. (English summary)
Chen, Ben M. *see* **Hu, Tingshu et al.**, **2004h:93072**
(Chen, Guanrong) *see* **Chaos control and synchronization**
Chen, Han-Fu (*with* Fang, Hai-Tao) Output tracking for nonlinear stochastic systems by iterative learning control. (English summary) **2004m:93126**
Chen, Jie[4] *see* **Su, Weizhou et al.**, **2004h:93086**
Chen, Li Qun The parametric open-plus-closed-loop control of chaotic maps and its robustness. (English summary)
Chen, Shi Hua[3] (*with* Zhang, Qunjiao; Xie, Jin; Wang, Chang Ping[2]) A stable-manifold-based method for chaos control and synchronization. (English summary)
Chen, Shu-ping (*with* Si, Shou-kui) Stabilization of nonhomogeneous beam by embedding patch of Kelvin-Voigt viscoelasticity. (English and Chinese summaries)
Chen, Tongwen *see* **Zhang, Guo Feng[3] et al.**, **2004c:93020**
Chen, Yen-Sheng *see* **Ge, Zheng-Ming**, **2004k:37058**
Cheng, Dai Zhan (*with* Guo, Lei[1]; Huang, Jie[1]) On quadratic Lyapunov functions. (English summary) **2004b:93094**
— *see also* **Wang, Yuzhen et al.**, **2004h:93036**
(Crouch, P.) *see* **Bloch, Anthony M.**, **2004e:37099**
Daafouz, Jamal *see* **Millerioux, Gilles**

Dankowicz, Harry J. (*with* Piiroinen, Petri T.) Exploiting discontinuities for stabilization of recurrent motions. (English summary) **2004c:34103**
Davison, Edward J. *see* **Hu, Guang-Di, 2004j:93009**
Dehman, Belhassen (*with* Lebeau, Gilles; Zuazua, Enrique) Stabilization and control for the subcritical semilinear wave equation. (English and French summaries) **2004i:35223**
De la Cruz, Jesus M. (*with* Aranda, Joaquín; Giron-Sierra, Jose M.; Velasco, Francisco; Esteban, Segundo; Diaz, Jose M.; de Andres-Toro, Bonifacio) Improving the comfort of a fast ferry.
Denisov, V. N. (*with* Muravnik, A. B.) On the stabilization of the solution of the Cauchy problem for quasilinear parabolic equations. (Russian. Russian summary) **2004e:35107**
Derivière, Sara (*with* Aziz-Alaoui, M. A.) Estimation of attractors and synchronization of generalized Lorenz systems. (English summary) **2004m:37057**
Diaz, Jose M. *see* **De la Cruz, Jesus M. et al.**
Dieulot, J.-Y. Design of stable controllers for Takagi-Sugeno systems with concentric characteristic regions. (English summary) **2004f:93079**
Dragan, Vasile (*with* Morozan, Toader; Stoica, Adrian M.) The disturbance attenuation problem for a general class of linear stochastic systems. (English summary) (*see* **2004k:93003**)
Eke, Anthony N. Stabilizability for linear feedback observable systems. (English summary)
El-Gohary, Awad I. On the orientation of a rigid body using point masses. (English summary) **2004m:70005**
Eller, Matthias M. (*with* Lagnese, J. E.; Nicaise, Serge) Decay rates for solutions of a Maxwell system with nonlinear boundary damping. (English summary) **2004i:78006**
Elliott, S. J. (*with* Benassi, L.; Brennan, Michael John; Gardonio, P.; Huang, Xiao Guang) Mobility analysis of active isolation systems. (English summary)
Engel, Klaus-Jochen *see* **Casarino, Valentina et al., 2004j:34128**
Esteban, Segundo *see* **De la Cruz, Jesus M. et al.**
Evans, Robin J. *see* **Savkin, A. V., 2004i:93004**
Fang, Hai-Tao *see* **Chen, Han-Fu, 2004m:93126**
Feki, Moez Observer-based exact synchronization of ideal and mismatched chaotic systems. (English summary) **2004h:37041**
Femat, Ricardo *see* **Solis-Perales, G. et al., 2004d:37047**
Froyland, Gary *see* **Walker, David McPetrie et al., 2004b:93025**
Fu, Yu-sun (*with* Tian, Zuo-hua; Shi, Song Jiao) Output feedback stabilization for stochastic time-delay nonlinear systems. (English and Chinese summaries)
— *see also* **Hua, Chang Chun**
Furati, K. M. *see* **Banks, H. T. et al., 2004h:93096**
Gaĭshun, I. V. Synthesis of stable discrete systems defined over arbitrary fields. (Russian. Russian summary) **2004h:93066**
— Stabilization of a periodic solution of a discrete system over a ring. (Russian. English and Russian summaries) **2004k:39067**
Gao, Zhi Wei (*with* So, Albert T. P.) A general doubly coprime factorization for descriptor systems. (English summary) **2004h:93038**
Garashchenko, F. G. (*with* Pichkur, V. V.; Kharchenko, I. I.) Time-optimal extinguishing of angular velocities of a spacecraft, based on the dynamic programming method. (Russian. Russian summary)
Gardonio, P. *see* **Elliott, S. J. et al.**
Garrido-Atienza, María J. *see* **Caraballo Garrido, Tomás et al., 2004h:93195**
Ge, You *see* **Wang, Yuzhen et al., 2004h:93036**
Ge, Zheng-Ming (*with* Chen, Yen-Sheng) Synchronization of unidirectional coupled chaotic systems via partial stability. (English summary) **2004k:37058**
Giron-Sierra, Jose M. *see* **De la Cruz, Jesus M. et al.**
Graña, Manuel *see* **Sarasola, C. et al., 2004a:37041**
Grobbelaar-Van Dalsen, Marié Uniform stabilization of a one-dimensional hybrid thermoelastic structure. (English summary) **2004f:74038**
Grosu, Ioan Stabilization of arbitrary unstable periodic orbits of nonlinear systems. (English summary) **2004j:37051**
Guan, Xin Ping (*with* Wu, Jing[3]; Long, Cheng Nian; Shi, Peng) Resilient guaranteed cost control for uncertain discrete linear jump systems. (English summary)
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Guan, Zhi-Hong *see* **Zhou, Feng**
Guo, Bao Zhu *see* **Xu, Gen Qi, 2004f:93071** *and* **Li, Miao[2] et al., 2004i:47081**
Guo, Hong *see* **Lin, Chang Jun**
Guo, Lei[1] *see* **Cheng, Dai Zhan et al., 2004b:93094**
Guo, Yu Xia (*with* Yao, Peng-Fei) On boundary stability of wave equations with variable coefficients. (English summary) **2004k:35267**
de Halleux, Jonathan *see* **Prieur, Christophe[2], 2004b:76040**
Hammouri, H. *see* **Bounit, Hamid, 2004a:93039**
Hamzi, Boumediene Some results on inverse optimality based designs. (English summary) **2004g:93073**
Hangos, K. M. (*with* Bokor, József; Szederkényi, G.) ★ Analysis and control of nonlinear process systems. **2004m:93002**
Haurani, Ammar (*with* Michalska, Hannah H.; Boulet, Benoit) Robust output feedback stabilization of uncertain time-varying state-delayed systems with saturating actuators. (English summary) **2004m:93119**
He, Yong[3] *see* **Zhang, Xian Ming et al.**
Ho, Daniel W. C. *see* **Lu, Guo Ping et al., 2004f:93074**
Hsiao, F. Y. (*with* Scheeres, Daniel J.) The dynamics of formation flight about a stable trajectory. (English summary) **2004f:70054**
Hsu, Liu *see* **Ortega, Romeo et al., 2004i:93100**
Hu, Guang-Di (*with* Davison, Edward J.) Real controllability/stabilizability radius of LTI systems. (English summary) **2004j:93009**
Hu, Tingshu (*with* Lin, Zongli; Chen, Ben M.) Analysis and design for discrete-time linear systems subject to actuator saturation. (English summary) **2004h:93072**
Hua, Chang Chun (*with* Guan, Xin Ping; Li, Xiaoli[1]; Shi, Peng) Adaptive observer-based control for a class of chaotic systems. (English summary)
— (*with* Guan, Xin Ping) Comments on: "State feedback stabilization for a class of stochastic time-delay nonlinear systems" [IEEE Trans. Automat. Control **48** (2003), no. 2, 282–286] by Y. Fu, Z. Tian and S. Shi. (English summary)
Huang, Biao *see* **Zhang, Li Qian[2] et al., 2004g:93057**
Huang, Fa Lun *see* **Liu, Yan[4] et al., 2004h:49054**
Huang, Jie[1] *see* **Cheng, Dai Zhan et al., 2004b:93094**
Huang, Xiao Guang *see* **Elliott, S. J. et al.**
Huang, Zhi Long *see* **Zhu, W. Q.**
Ionescu, Vlad (*with* Ştefan, Radu) Generalized time-varying Riccati theory: a Popov operator based approach. (English summary) **2004i:93145**
Ito, Kazufumi *see* **Banks, H. T. et al., 2004h:93096**
Jerbi, Hamadi A manifold-like characterization of asymptotic stabilizability of homogeneous systems. (English summary)
Jiang, Guo-Ping (*with* Zheng, Wei Xing[1]) Chaos control for a class of chaotic systems using PI-type state observer approach. (English summary)
Jiang, Wei-sheng *see* **Liu, Yan[4] et al., 2004h:49054**
Jiang, Zhong-Ping (*with* Lefeber, Erjen; Nijmeijer, Henk) Saturated stabilization and tracking of a nonholonomic mobile root. (English summary)
— *see also* **Khac Duc Do et al., 2004i:93131** *and* **Zhang, Youping**
Jing, Zhu-jun *see* **Wang, Rui-qi, 2004k:37066**
Joglekar, Harish K. *see* **Chatterjee, Debasish et al.**
(Jørgensen, Sten Bay) *see* **Hangos, K. M. et al., 2004m:93002**
Judd, Kevin *see* **Walker, David McPetrie et al., 2004b:93025**
Kapitanskiĭ, L. V. *see* **Auckly, David, 2004b:93062**
Karafyllis, Iasson (*with* Tsinias, J.) A converse Lyapunov theorem for nonuniform in time global asymptotic stability and its application to feedback stabilization. (English summary) **2004f:93118**
Kats, I. Ya. (*with* Martynyuk, A. A.) ★ Stability and stabilization of nonlinear systems with random structure. **2004b:34004**
Keel, L. H. (*with* Rego, J. I.; Bhattacharyya, Shankar Prashad) A new approach to digital PID controller design. (English summary) **2004b:93054**
Khac Duc Do (*with* Jiang, Zhong-Ping; Pan, Jie[1]) On global tracking control of a VTOL aircraft without velocity measurements. (English summary) **2004i:93131**
Khapalov, Alexander Y. (*with* Nag, Parthasarathi) Energy decay estimates for Lienard's equation with quadratic viscous feedback. (English summary) **2004g:34063**
Kharchenko, I. I. *see* **Garashchenko, F. G. et al.**
Kliemann, Wolfgang *see* **Solis-Perales, G. et al., 2004d:37047**
Kolmanovskiĭ, Vladimir B. *see* **Borne, Pierre et al., 2004i:93190**
Kondrat'ev, G. V. (*with* Kondrat'ev, Vyacheslav Vasil'evich) Generalization of the geometric theory of the design of optimal time-independent smooth systems for the infinite-dimensional case. (Russian)
Kondrat'ev, Vyacheslav Vasil'evich *see* **Kondrat'ev, G. V.**
Kraffer, Ferdinand (*with* Zagalak, Petr) Parametrization and reliable extraction of proper compensators. (English summary) **2004b:93060**
(Krishnaprasad, P. S.) *see* **Bloch, Anthony M., 2004e:37099**
Krstić, Miroslav *see* **Bošković, Dejan M., 2004c:93078**
Lagnese, J. E. *see* **Eller, Matthias M. et al., 2004i:78006**
Lam, James *see* **Zhang, Li Qian[2] et al., 2004g:93057** *and* **Xu, Sheng Yuan et al., 2004h:93149**
Lauga, Eric (*with* Bewley, Thomas R.) The decay of stabilizability with Reynolds number in a linear model of spatially developing flows. (English summary) **2004e:76050**
Lebeau, Gilles *see* **Dehman, Belhassen et al., 2004i:35223**
Lefeber, Erjen *see* **Jiang, Zhong-Ping et al.**
Leibfritz, F. (*with* Mostafa, E. M. E.) Trust region methods for solving the optimal output feedback design problem. (English summary) **2004b:93055**
Leung, Andrew Y. T. (*with* Liu, Zeng Rong) Suppressing chaos for some nonlinear oscillators. (English summary)
Li, Chun Wen *see* **Wang, Yuzhen et al., 2004h:93036**
Li, Jun Min *see* **Wang, Chun Xiao**
Li, Miao[2] (*with* Guo, Bao Zhu; Piskarëv, S. I.) Compactness and norm continuity of the difference of two cosine functions. (English summary) **2004i:47081**
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Marsden, Jerrold E. *see* **Bloch, Anthony M.**, **2004e:37099** *and* **Zenkov, D. V. et al.**, **2004h:70033**
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Moujahid, A. *see* **Sarasola, C. et al.**, **2004a:37041**
Moukam Kakmeni, F. M. *see* **Bowong, Samuel**
Muravnik, A. B. *see* **Denisov, V. N.**, **2004e:35107**
(Murray, Richard M.) *see* **Bloch, Anthony M.**, **2004e:37099**
Nag, Parthasarathi *see* **Khapalov, Alexander Y.**, **2004g:34063**
Nagel, Rainer *see* **Casarino, Valentina et al.**, **2004j:34128**
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Perla Menzala, G. *see* **Bisognin, Eleni et al.**, **2004c:35349**
Perruquetti, Wilfrid *see* **Blanco, Yann et al.**
Pichkur, V. V. *see* **Garashchenko, F. G. et al.**
Piiroinen, Petri T. *see* **Dankowicz, Harry J.**, **2004c:34103**
Pinsky, Mark A.[2] *see* **Zevin, Aleksandr Aronovich**, **2004m:34104**
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Piskarëv, S. I. *see* **Li, Miao**[2] **et al.**, **2004i:47081**
Postlethwaite, Ian *see* **Turner, Matthew C.**, **2004j:93049**
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Strygin, V. V. *see* **Safonov, L. A.**, **2004h:49056**
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Szederkényi, G. *see* **Hangos, K. M. et al.**, **2004m:93002**
Teo, Kok Lay *see* **Liu, Xinzhi et al.**, **2004d:34022**
Tian, Li Xin *see* **Xu, Gang**
Tian, Yu Ping[1] *see* **Li, Shihua**, **2004b:34127**
Tian, Zuo-hua *see* **Fu, Yu-sun et al.** *and* **Hua, Chang Chun**
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Vinnicombe, Glenn *see* **Cantoni, Michael**, **2004c:93051**
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Yeung, L. F. *see* **Lu, Guo Ping et al.**, **2004f:93074**
Yu, Wen *see* **Reyes-Reyes, J. et al.**
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93D20 Asymptotic stability

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Fabbri, Roberta (*with* Impram, Serkan T.; Johnson, Russell A.) On a criterion of Yakubovich type for the absolute stability of nonautonomous control processes. (English summary) **2004d:93122**
Feng, De-Xing *see* **Yan, Qing Xu et al., 2004e:93087**
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Hou, Xia *see* **Cui, Dong Hao et al., 2004a:93081**
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Wang, Chao *see* **Zhang, Qiang[5] et al., 2004c:93109**
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Wang, Long[1] *see* **Yang, Peng et al., 2004f:93120**
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Wang, Yuan[2] *see* **Angeli, David et al., 2004e:93085** *and* **Liberzon, Daniel et al., 2004i:93165**
Wu, Qi Di *see* **Sun, Ji Tao et al., 2004c:93108**
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Chen, Guanrong *see* **Liao, Xiao Feng et al., 2004h:82087**
Chen, Xinkai *see* **Zhai, Guisheng et al.**
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Chhabra, D. *see* **Astolfi, Alessandro et al.**
Czarnecki, Marc-Olivier *see* **Cabot, Alexandre, 2004e:34064**
Dao Thi Lien *see* **Nguyễn Hữu Du' et al., 2004m:39022**
Dauphin-Tanguy, G. *see* **Bertrand, J. M. et al., 2004e:34082**
Davison, Edward J. *see* **Hu, Guang-Di, 2004j:34142**
Debeljković, Dragutin Lj. Lyapunov and non-Lyapunov stability theory: linear autonomous and non-autonomous singular systems. (English and Serbo-Croatian summaries)
El-Gohary, Awad I. (*with* Bukhari, Fawzy A.) Optimal control of Lorenz system during different time intervals. (English summary) **2004e:49034**
Farkas, Bálint *see* **Bátkai, András, 2004k:34114**
Feng, Gang[1] *see* **Xi, Zairong et al., 2004j:93110**
Gil', Michael Iosif (*with* Ailon, Amit) The input-output version of the Aizerman-Myshkis problem for retarded systems. (English summary) **2004c:93058**
Gruyitch, Ly. T. Consistent Lyapunov methodology: non-differentiable non-linear systems. (English summary) **2004d:34105**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar; August, Elias) Stability and dissipativity theory for discrete-time non-negative and compartmental dynamical systems. (English summary) **2004m:93095**
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Hinrichsen, Diederich (*with* Nguyễn Khoa So'n; Pham Huu Anh Ngoc) Stability radii of higher order positive difference systems. (English summary) **2004h:93142**
Hu, Guang-Di (*with* Davison, Edward J.) Real stability radii of linear time-invariant time-delay systems. (English summary) **2004j:34142**
Iannelli, Luigi (*with* Johansson, Karl Henrik; Jönsson, Ulf T.; Vasca, Francesco) Dither for smoothing relay feedback systems. (English summary) **2004k:93052**
Ikeda, Masao *see* **Zhai, Guisheng et al.**
Ivlev, Ruslan S. *see* **Sokolova, Svetlana P.**, **2004f:65063**
Jiang, Zhong-Ping *see* **Xi, Zairong et al.**, **2004j:93110**
Johansson, Karl Henrik *see* **Iannelli, Luigi et al.**, **2004k:93052**
Jonckheere, Edmond A. *see* **Bohacek, Stephan**, **2004g:93114**
Jönsson, Ulf T. *see* **Iannelli, Luigi et al.**, **2004k:93052**
Lamour, René (*with* März, Roswitha; Winkler, Renate) Stability of periodic solutions of index-2 differential algebraic systems. (English summary) **2004c:34008**
Lee, Ti-Chung (*with* Chen, Bor-Sen) A general stability criterion for time-varying systems using a modified detectability condition. (English summary) **2004c:93079**
Lee, Tong Heng *see* **Lin, Chong et al.**, **2004h:93091**
Lhous, M. *see* **Rachik, Mostafa et al.**
Li, Zhengguo (*with* Soh, Yeng Chai; Wen, Changyun) Robust stability of perturbed switching systems by matrix measure. (English summary) **2004g:93116**
Liao, Xiao Feng (*with* Chen, Guanrong; Sanchez, Edgar N.) LMI-based approach for asymptotically stability analysis of delayed neural networks. (English summary) **2004h:82087**
Lin, Chong (*with* Wang, Qing-Guo; Lee, Tong Heng) Local stability of limit cycles for MIMO relay feedback systems. (English summary) **2004h:93091**
Liu, Derong (*with* Molchanov, A. P.) Asymptotic stability of a class of linear discrete systems with multiple independent variables. (English summary) **2004f:39039**
Liu, Pin-Lin Exponential stability for linear time-delay systems with delay dependence. (English summary) **2004m:34174**
Luo, Ningsu *see* **de la Sen, Manuel**, **2004i:34202**
Ma, Wei (*with* Wang, Zheng-Ou) A new chaotic parameters disturbance annealing neural network for solving global optimization problems. (English summary) **2004m:82116**
Marinovici, Laurentiu (*with* Păstrăvanu, Octavian) Flow-invariance properties for a class of discrete-time nonlinear uncertain systems. (English summary) **2004e:93045**
März, Roswitha *see* **Lamour, René et al.**, **2004c:34008**
Miani, Stefano *see* **Blanchini, Franco**, **2004e:49055**
Molchanov, A. P. *see* **Liu, Derong**, **2004f:39039**
Moreau, Luc[2] (*with* Aeyels, Dirk) Trajectory-based local approximations of ordinary differential equations. (English summary) **2004i:34125**
Nguyễn Hữ'u Du' (*with* Dao Thi Lien; Vu Hoang Linh) On complex stability radii for implicit discrete time systems. (English summary) **2004m:39022**
Nguyễn Khoa So'n *see* **Hinrichsen, Diederich et al.**, **2004h:93142**
Ortega, Romeo *see* **Astolfi, Alessandro et al.**
Păstrăvanu, Octavian *see* **Marinovici, Laurentiu**, **2004e:93045**
Pham Huu Anh Ngoc *see* **Hinrichsen, Diederich et al.**, **2004h:93142**
Pogan, Alin *see* **Preda, P. et al.**, **2004m:47090**
Preda, Ciprian *see* **Preda, P. et al.**, **2004m:47090**
Preda, P. (*with* Pogan, Alin; Preda, Ciprian) Admissibility and exponential dichotomy of evolutionary processes on half-line. (English summary) **2004m:47090**
Proskurnikov, A. V. (*with* Yakubovich, V. A.) A problem on the invariance of a control system. (Russian) **2004f:93057**
Rachik, Mostafa (*with* Lhous, M.; Tridane, A.) On the asymptotic stability of nonlinear discrete systems. (English summary)
Rajpurohit, Tanmay *see* **Haddad, Wassim M. et al.**, **2004m:93067**
Reginatto, R. (*with* Bazanella, A. S.) Robustness of global asymptotic stability in indirect field-oriented control of induction motors. (English summary) **2004d:93100**
Sallet, Gauthier *see* **Chentouf, Boumediène et al.**, **2004k:35243**
Sanchez, Edgar N. *see* **Liao, Xiao Feng et al.**, **2004h:82087**
de la Sen, Manuel (*with* Luo, Ningsu) On exponential stability of systems with point, distributed and Volterra-type delayed dynamics. (English summary) **2004i:34202**
Soh, Yeng Chai *see* **Li, Zhengguo et al.**, **2004g:93116**
Sokolova, Svetlana P. (*with* Ivlev, Ruslan S.) Asymptotic stability of interval time-delay systems. (English summary) **2004f:65063**
Sontag, Eduardo D. *see* **Angeli, David**, **2004k:93057**
Sueur, C. *see* **Bertrand, J. M. et al.**, **2004e:34082**
Tridane, A. *see* **Rachik, Mostafa et al.**
Vasca, Francesco *see* **Iannelli, Luigi et al.**, **2004k:93052**
Vu Hoang Linh *see* **Nguyễn Hữ'u Du' et al.**, **2004m:39022**
Wang, Qing-Guo *see* **Lin, Chong et al.**, **2004h:93091**
Wang, Xing Ping (*with* Cheng, Zhao Lin) Robust H_∞ control for a class of nonlinear systems with input unmodeled dynamics. (English and Chinese summaries)
Wang, Zheng-Ou *see* **Ma, Wei**, **2004m:82116**
Wen, Changyun *see* **Li, Zhengguo et al.**, **2004g:93116**
Winkler, Renate *see* **Lamour, René et al.**, **2004c:34008**
Xi, Zairong (*with* Feng, Gang[1]; Jiang, Zhong-Ping; Cheng, Dai Zhan) A switching algorithm for global exponential stabilization of uncertain chained systems. (English summary) **2004j:93110**
Xu, Cheng-Zhong *see* **Chentouf, Boumediène et al.**, **2004k:35243**
Yakubovich, V. A. *see* **Proskurnikov, A. V.**, **2004f:93057**
Yang, Xiao-Song Remarks on three types of asymptotic stability. (English summary) **2004f:34075**
Yasuda, Kazunori *see* **Zhai, Guisheng et al.**
Zhai, Guisheng (*with* Chen, Xinkai; Ikeda, Masao; Yasuda, Kazunori) Stability and $\mathscr{L}_2$ gain analysis for a class of switched symmetric systems. (English summary)

93D21 Adaptive or robust stabilization

Açikmeşe, Ahmet Behçet (*with* Corless, Martin) Robust tracking and disturbance rejection of bounded rate signals for uncertain/non-linear systems. (English summary) **2004g:93137**
Aeyels, Dirk *see* **Moreau, Luc[2]**, **2004k:93126**
Akunov, T. A. (*with* Ushakov, A. V.) Synthesis of systems of guaranteed modal stability. (Russian. Russian summary) **2004f:93121**
Aleeva, S. R. (*with* Ukhobotov, V. I.) Modeling guaranteed control with an integral constraint in a linear control system. (Russian. English and Russian summaries) **2004i:93167**
Allgöwer, Frank *see* **Imsland, Lars et al.**, **2004k:93123**
Alonso-Quesada, S. (*with* de la Sen, Manuel) Robust adaptive control of discrete nominally stabilizable plants. (English summary) **2004k:93122**
— *see also* **de la Sen, Manuel et al.**
Ancona, Fabio (*with* Bressan, Alberto) Flow stability of patchy vector fields and robust feedback stabilization. (English summary) **2004d:93123**
Antsaklis, Panos J. *see* **Zhai, Guisheng et al.**, **2004e:93089**
Astolfi, Alessandro *see* **Prieur, Christophe[2]**, **2004j:93118** *and* **Valtolina, E.**
Barb, Florin Dan (*with* Ben-Tal, Aharon; Nemirovskii, Arkadii) Robust dissipativity of interval uncertain linear systems. (English summary) **2004a:93083**
Barbu, Viorel Internal stabilization of the phase field system. (English summary) (*see* **2004k:93003**)
Ben-Tal, Aharon *see* **Barb, Florin Dan et al.**, **2004a:93083**
Bilbao-Guillerna, A. *see* **de la Sen, Manuel et al.**
Blondel, Vincent D. *see* **Stoustrup, Jakob**, **2004j:93119**
Bobtsov, A. A. An algorithm for the robust output control of a linear object with compensation for unknown deterministic perturbation. (Russian. Russian summary)
Boukas, El-Kébir *see* **Shi, Peng et al.**, **2004b:93125**
Boulet, Benoit *see* **Haurani, Ammar et al.**, **2004m:93119**
Bressan, Alberto *see* **Ancona, Fabio**, **2004d:93123**
Cao, Xian Bing Adaptive control and stability of discrete-time systems. (Chinese. English and Chinese summaries)
Chen, Guanrong *see* **Li, Zhi[4] et al.**, **2004c:93111** *and* **Hsu, Ya-Chen et al.**, **2004d:93124**
Chen, Zhi Fu *see* **Ji, Hai Bo et al.**
Chen, Zhiyong (*with* Huang, Jie[1]) Global robust stabilization of cascaded polynomial systems. (English summary) **2004i:93168**
— (*with* Huang, Jie[1]) Dissipativity, stabilization, and regulation of cascade-connected systems. (English summary) **2004m:93116**
Cheng, Zhao Lin *see* **Zhu, Shu Qian**, **2004i:93175** *and* **Wang, Xing Ping et al.**
Chesi, G. (*with* Tesi, Alberto; Vicino, A.; Genesio, Roberto) An LMI approach to constrained optimization with homogeneous forms. (English summary)
Choi, Chong-Ho (*with* Jeong, Gu-Min) Perfect tracking for maximum-phase nonlinear systems by iterative learning control. (English summary) **2004a:93084**
Corless, Martin *see* **Açikmeşe, Ahmet Behçet**, **2004g:93137**
Corradini, M. L. (*with* Jetto, L.; Orlando, Giuseppe) Robust stabilization of multivariable uncertain plants via switching control. (English summary) **2004i:93169**
— (*with* Orlando, Giuseppe; Parlangeli, G.) A VSC approach for the robust stabilization of nonlinear plants with uncertain nonsmooth actuator nonlinearities—a unified framework. (English summary) **2004m:93117**
De Doná, J. A. (*with* Serón, Maria M.; Mayne, D. Q.; Goodwin, Graham C.) Enlarged terminal sets guaranteeing stability of receding horizon control. (English summary) **2004h:93173**
Ding, Zhengtao Adaptive stabilization of a class of nonlinear systems with unstable internal dynamics. (English summary) **2004j:93114**
— *see also* **Ye, Xu Dong**
Djouadi, Seddik M. Optimal robust disturbance attenuation for continuous time-varying systems. (English summary) **2004g:93138**
Eun, Yongsoon (*with* Kabamba, Pierre T.; Meerkov, Semyon M.) Tracking of random references: random sensitivity function and tracking quality indicators. (English summary) **2004f:93122**
Fang, Jian Yin *see* **Yu, Ji Min et al.**, **2004g:93142**
Fernández-Anaya, G. (*with* Kharitonov, Vladimir L.) Powers of SPR functions and preservation properties. (English summary) **2004b:93121**
Findeisen, Rolf *see* **Imsland, Lars et al.**, **2004k:93123**
Foss, Bjarne A. *see* **Imsland, Lars et al.**, **2004k:93123**
Fridman, Emilia (*with* Pila, A.; Shaked, Uri) Regional stabilization and H_∞ control of time-delay systems with saturating actuators. (English summary) **2004g:93139**
Galeani, Sergio (*with* Grasselli, Osvaldo Maria; Menini, Laura) Strong stabilization with infinite multivariable gain margin through linear periodic control. (English summary) **2004m:93118**
Gao, Hui Jun (*with* Wang, Chang Hong[1]; Zhao, Lu) Comments on: "An LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays" [IEEE Trans. Automat. Control **48** (2003), no. 2, 286–289] by C.-Y. Lu, J. S.-H. Tsai, G.-J. Jong and T.-J. Su. (English summary)
Garrido, A. J. *see* **de la Sen, Manuel et al.**
Ge, Shuzhi Sam (*with* Wang, Jing[7]) Robust adaptive tracking for time-varying uncertain nonlinear systems with unknown control coefficients. (English summary) **2004g:93140**
— Comments on: "Adaptive global stabilization of nonholonomic systems with strong nonlinear drifts" [Systems Control Lett. **46** (2002), no. 3, 195–205] by Khac Duc Do and J. Pan. (English summary) **2004i:93172b**
— *see also* **Khac Duc Do**, **2004i:93172c** *and* **Hu, Yueming et al.**, **2004m:93120**
Genesio, Roberto *see* **Chesi, G. et al.**
Gong, Wei *see* **Lan, Hai et al.**
Goodwin, Graham C. *see* **De Doná, J. A. et al.**, **2004h:93173**
Grasselli, Osvaldo Maria *see* **Galeani, Sergio et al.**, **2004m:93118**
Guan, Xin Ping (*with* Hua, Chang Chun; Long, Cheng Nian) Robust dissipative control and guaranteed cost control for uncertain nonlinear systems. (Chinese. English and Chinese summaries)
Guo, Xianping *see* **Shi, Peng et al.**, **2004b:93125**
Gutman, Per-Olof Robust and adaptive control: fidelity or an open relationship? (English summary) **2004i:93170**
Gyurkovics, Éva (*with* Takács, Tibor) Quadratic stabilisation with H_∞-norm bound of non-linear discrete-time uncertain systems with bounded control. (English summary) **2004j:93115**

Han, Bing *see* **Lan, Hai et al.**
Han, Chong Zhao *see* **Li, Zhi[1] et al., 2004c:93111**
Haurani, Ammar (*with* Michalska, Hannah H.; Boulet, Benoit) Robust output feedback stabilization of uncertain time-varying state-delayed systems with saturating actuators. (English summary) **2004m:93119**
He, Han Lin *see* **Wang, Zhong Sheng et al.**
He, Xing *see* **Xie, Li et al.**
Henrion, Didier (*with* Šebek, Michael; Kučera, Vladimír) Positive polynomials and robust stabilization with fixed-order controllers. (English summary) **2004a:93085**
Ho, Daniel W. C. (*with* Lu, Guo Ping) Robust stabilization for a class of discrete-time non-linear systems via output feedback: the unified LMI approach. (English summary) **2004j:93116**
Ho-Mock-Qai, Bertina Nonlinear robust stabilization of multi-parameter families of systems. (English summary) **2004i:93171**
Hsu, Ya-Chen (*with* Chen, Guanrong; Tong, Shao Cheng; Li, Han-Xiong) Integrated fuzzy modeling and adaptive control for nonlinear systems. (English summary) **2004d:93124**
Hu, Yueming (*with* Ge, Shuzhi Sam; Su, Chun-Yi) Stabilization of uncertain nonholonomic systems via time-varying sliding mode control. (English summary) **2004m:93120**
Hua, Chang Chun *see* **Guan, Xin Ping et al.**
Huang, Changshui *see* **Sun, Ji Tao et al.**
Huang, Jie[1] *see* **Chen, Zhiyong, 2004i:93168** *and* **2004m:93116**
Huang, Lin[1] *see* **Zuo, Zhiqiang et al., 2004m:93123**
Imsland, Lars (*with* Findeisen, Rolf; Allgöwer, Frank; Foss, Bjarne A.) Output feedback stabilization with nonlinear predictive control: asymptotic properties. (English summary) **2004k:93123**
Jabedar Maralani, P. *see* **Labibi, B. et al.**
Jeong, Gu-Min *see* **Choi, Chong-Ho, 2004a:93084**
Jerbi, Hamadi (*with* Kharrat, Thouraya) Asymptotic stabilizability of homogeneous polynomial systems of odd degree. (English summary) **2004h:93174**
Jetto, L. *see* **Corradini, M. L. et al., 2004i:93169**
Ji, Hai Bo (*with* Xi, Hong Sheng; Chen, Zhi Fu; Wang, Jun[8]) Robust adaptive tracking of stochastic nonlinear systems with uncertain noises. (Chinese. English and Chinese summaries)
Jia, Xin Chun (*with* Zheng, Nan Ning; Zhang, Yuan Lin) Reliable guaranteed cost robust control for linear uncertain time-delay systems. (Chinese. English and Chinese summaries)
— (*with* Zheng, Nan Ning; Yuan, Ze Jian) Layered control strategy of robust stabilization for uncertain systems via dynamic output feedback. (Chinese. English and Chinese summaries)
Jiang, Jin *see* **Mahmoud, Mufeed M. et al., 2004b:93123**
(Jong, Gwo-Jia) *see* **Gao, Hui Jun et al.**
Kabamba, Pierre T. *see* **Eun, Yongsoon et al., 2004f:93122**
Khac Duc Do (*with* Pan, Jie[1]) Adaptive global stabilization of nonholonomic systems with strong nonlinear drifts. (English summary) **2004i:93172a**
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— *see also* **Ge, Shuzhi Sam, 2004i:93172b**
Khaki-Sedigh, A. *see* **Labibi, B. et al.**
Kharitonov, Vladimir L. *see* **Fernández-Anaya, G., 2004b:93121**
Kharrat, Thouraya *see* **Jerbi, Hamadi, 2004h:93174**
Kim, D. P. A condition for boundary stability and the synthesis of control systems with maximum degree of stability. (Russian. Russian summary)
Kobayashi, Toshihiro Some remarks on adaptive stabilization of infinite-dimensional second order systems. (English summary) **2004h:93175**
— Low gain adaptive stabilization of undamped second order systems. (English summary) **2004g:93141**
— Adaptive stabilization of infinite-dimensional semilinear second-order systems. (English summary) **2004c:93110**
— Adaptive stabilization of the sine-Gordon equation by boundary control. (English summary) **2004m:93121**
Kučera, Vladimír *see* **Henrion, Didier et al., 2004a:93085**
Labibi, B. (*with* Lohmann, B.; Khaki-Sedigh, A.; Jabedar Maralani, P.) Robust decentralized stabilization of large-scale systems via eigenstructure assignment. (English summary)
Lam, James *see* **Xu, Sheng Yuan et al., 2004b:93126** *and* **Zhou, Shaosheng, 2004i:93174**
Lan, Hai (*with* Li, Dian Pu; Gong, Wei; Yang, Li Hua; Han, Bing) Robust nonlinear control for power system excitation via disturbance attenuation. (Chinese. English and Chinese summaries)
Li, Dian Pu *see* **Lan, Hai et al.**
Li, Han-Xiong *see* **Hsu, Ya-Chen et al., 2004d:93124**
Li, Xing-Yuan *see* **Liu, Yusheng, 2004d:93125**
Li, Zhi[1] (*with* Chen, Guanrong; Shi, Song Jiao; Han, Chong Zhao) Robust adaptive tracking control for a class of uncertain chaotic systems. (English summary) **2004c:93111**
Liang, K. Z. *see* **Shieh, N. C. et al., 2004d:93127**
Liao, Xiao Xin *see* **Wang, Zhong Sheng et al.** *and* **Liu, Bin[6] et al.**
Lin, Hai[1] *see* **Zhai, Guisheng et al., 2004e:93089**
Lin, Wei[2] (*with* Pongvuthithum, Radom) Adaptive output tracking of inherently nonlinear systems with nonlinear parameterization. (English summary) **2004k:93124**
— (*with* Pongvuthithum, Radom) Nonsmooth adaptive stabilization of cascade systems with nonlinear parameterization via partial-state feedback. (English summary) **2004j:93117**
Liu, Bin[6] (*with* Liu, Xinzhi; Liao, Xiao Xin) Robust dissipativity and feedback stabilization for interval linear impulsive systems. (English and Chinese summaries)
Liu, Pin-Lin Robust exponential stabilization for uncertain systems with state and control delay. (English summary) **2004k:93125**
Liu, Xiao Ping[2] Almost disturbance decoupling of nonlinear differential-algebraic equation systems. (English summary)
Liu, Xinzhi *see* **Liu, Bin[6] et al.**
Liu, Yusheng (*with* Li, Xing-Yuan) Robust adaptive control of nonlinear systems represented by input-output models. (English summary) **2004d:93125**
Lohmann, B. *see* **Labibi, B. et al.**
Long, Cheng Nian *see* **Guan, Xin Ping et al.**
(Lu, Chien-Yu) *see* **Gao, Hui Jun et al.**
Lu, Guo Ping Global stabilization for a class of non-affine systems. (Chinese. English and Chinese summaries)
— *see also* **Ho, Daniel W. C., 2004j:93116**
Lu, Jianbo Robust stabilization for systems with rank-one uncertainty structure. (English summary) **2004f:93123**
Luus, Rein Robust control by simultaneous stabilization. (English summary)
Ma, Shu Ping Robust stabilization for discrete-time singular systems with uncertainties in the derivative matrix. I. (Chinese. English and Chinese summaries)
Ma, Yi[1] (*with* Wang, Su Xia) Estimation of the robust stabilizing bound for a state feedback controller. (Chinese. English and Chinese summaries)
Mahmoud, Magdi S. (*with* Zribi, Mohamed) Robust output feedback control for nonlinear systems including actuators. (English summary) **2004b:93122**
Mahmoud, Mufeed M. (*with* Jiang, Jin; Zhang, Youmin) Stabilization of active fault tolerant control systems with imperfect fault detection and diagnosis. (English summary) **2004b:93123**
Mao, C. J. *see* **Shieh, N. C. et al., 2004d:93127**
Marino, Riccardo (*with* Tomei, Patrizio) Output regulation for linear systems via adaptive internal model. (English summary) **2004i:93173**
Mayne, D. Q. *see* **De Doná, J. A. et al., 2004h:93173**
Meerkov, Semyon M. *see* **Eun, Yongsoon et al., 2004f:93122**
Menini, Laura *see* **Galeani, Sergio et al., 2004m:93118**
Michalska, Hannah H. *see* **Haurani, Ammar et al., 2004m:93119**
Michiels, Wim (*with* Roose, Dirk) An eigenvalue based approach for the robust stabilization of linear time-delay systems. (English summary) **2004c:93112**
Moreau, Luc[2] (*with* Aeyels, Dirk) Periodic output feedback stabilization of single-input single-output continuous-time systems with odd relative degree. (English summary) **2004k:93126**
Morin, Pascal (*with* Samson, Claude) Practical stabilization of driftless systems on Lie groups: the transverse function approach. (English summary) **2004f:93124**
Mu, Xiao Wu *see* **Yu, Ji Min et al., 2004g:93142**
Nemirovskii, Arkadii *see* **Barb, Florin Dan et al., 2004a:93083**
Nguang, Sing Kiong *see* **Shi, Peng et al., 2004b:93125**
Orlando, Giuseppe *see* **Corradini, M. L. et al., 2004i:93169** *and* **2004m:93117**
Pan, Jie[1] *see* **Khac Duc Do, 2004i:93172a; 2004i:93172c** *and* **Ge, Shuzhi Sam, 2004i:93172b**
Parlangeli, G. *see* **Corradini, M. L. et al., 2004m:93117**
Pelevin, A. E. Robust stabilization of a linear object with uncertain parameters of the model. (Russian. Russian summary)
Pila, A. *see* **Fridman, Emilia et al., 2004g:93139**
Pongvuthithum, Radom *see* **Lin, Wei[2], 2004j:93117** *and* **2004k:93124**
Postlethwaite, Ian *see* **Prempain, E.**
Praly, Laurent Asymptotic stabilization via output feedback for lower triangular systems with output dependent incremental rate. (English summary) **2004d:93126**
Prempain, E. (*with* Postlethwaite, Ian) Static output feedback stabilisation with H_∞ performance for a class of plants. (English summary)
Prieur, Christophe[2] (*with* Astolfi, Alessandro) Robust stabilization of chained systems via hybrid control. (English summary) **2004j:93118**
Rani, C. Sushma *see* **Ray, Goshaidas**
Ray, Goshaidas (*with* Rani, C. Sushma) Decentralized robust stabilization and control of interconnected uncertain discrete time systems. (English summary)
Roose, Dirk *see* **Michiels, Wim, 2004c:93112**
Saberi, Ali *see* **Shi, Guoyong et al., 2004e:93088**
Samson, Claude *see* **Morin, Pascal, 2004f:93124**
Šebek, Michael *see* **Henrion, Didier et al., 2004a:93085**
de la Sen, Manuel Adaptive stabilization of continuous-time systems guaranteeing the controllability of a modified estimation model. (English summary)
— Adaptive stabilization of non-necessarily inversely stable first-order systems by using estimates modification based on testing the Sylvester determinant. (English summary) **2004b:93124**
— (*with* Alonso-Quesada, S.; Bilbao-Guillerna, A.; Garrido, A. J.) A supervised multiestimation scheme for discrete adaptive control which guarantees robust closed-loop stability. (English summary)
— *see also* **Alonso-Quesada, S., 2004k:93122**
Serón, Maria M. *see* **De Doná, J. A. et al., 2004h:93173**
Shaked, Uri *see* **Fridman, Emilia et al., 2004g:93139**
Shi, Guoyong (*with* Saberi, Ali; Stoorvogel, Anton A.) On the L_p (l_p) stabilization of open-loop neutrally stable linear plants with input subject to amplitude saturation. (English summary) **2004e:93088**
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(Nguang, Sing Kiong) *see* **Guan, Xin Ping et al., 2004d:93111a** *and* **Li, Guangwei[1] et al., 2004d:93111b**
Ortega, Romeo *see* **Astolfi, Alessandro, 2004c:93085**
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Peres, Pedro L. D. *see* **Leite, Valter J. S., 2004k:93031**
Qian, Chunjiang *see* **Lin, Wei[2], 2004b:93074**
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Shi, Yan *see* **Guan, Xin Ping et al., 2004j:93033**
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Zames, G. *see* **Djouadi, Seddik M., 2004h:93050**
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Zang, Chuanzhi *see* **Li, Guangwei[1] et al., 2004d:93111b**
Zhang, Si Ying *see* **Xie, Xue Jun et al.**
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93D25 Input-output approaches

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Cobb, Daniel (*with* Wang, Chi-Jo) A characterization of bounded-input bounded-output stability for linear time-varying systems with distributional inputs. (English summary) **2004m:93124**
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Morse, A. Stephen *see* **De Persis, Claudio et al., 2004h:93177**
Oustaloup, Alain *see* **Garcia Iturricha, A. et al., 2004c:93114**
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Tsinias, J. *see* **Karafyllis, Iasson, 2004k:93129**
Wang, Chi-Jo *see* **Cobb, Daniel, 2004m:93124**
Zhang, Qing Ling *see* **Dong, Xin Zhuang**

Items with secondary classifications in 93D25

Chen, Xinkai *see* **Zhai, Guisheng et al.**
Hill, David John *see* **Jiang, Zhong-Ping et al., 2004m:93047**
Huang, Jie[1] *see* **Jiang, Zhong-Ping et al., 2004m:93047**
Ikeda, Masao *see* **Zhai, Guisheng et al.**
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Gershon, E. (*with* Shaked, Uri; Yaesh, I.) Robust H_∞ estimation of stationary discrete-time linear processes with stochastic uncertainties. (English summary) **2004g:93146**
Guo, Zhi *see* **Cheng, Xiang Quan et al.**
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Hassibi, Babak (*with* Kaliath, Thomas) H^∞ bounds for least-squares estimators. (English summary) **2004f:93127**
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Jiang, Yan *see* **He, Qing et al.**
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Kimura, Hidenori *see* **Luo, Guiming, 2004h:93183**
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Leondes, Cornelius T. *see* **Sworder, David D. et al., 2004e:93094**
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Luo, Guiming (*with* Kimura, Hidenori) Recursive estimation methods for discrete systems. (English summary) **2004h:93183**
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Moreau, Sandrine *see* **Trigeassou, Jean-Claude et al., 2004d:93133**
Nakamori, Seiichi New design of fixed-interval smoother using covariance information in linear stochastic continuous-time systems. (English summary) **2004e:93092**
Nechval, Konstantin N. *see* **Nechval, Nicholas A. et al.** *and* **Vasermanis, Edgars K. et al.**
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Poinot, Thierry *see* **Trigeassou, Jean-Claude et al., 2004d:93133**
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Savaresi, Sergio M. (*with* Bittanti, Sergio; So, H. C.) Closed-form unbiased frequency estimation of a noisy sinusoid using notch filters. (English summary) **2004e:93093**
Savkin, A. V. *see* **Vũ Ngọc Phát, 2004g:93147**
Seiler, Peter *see* **Smith, S. Craig, 2004j:93123**
Semenikhin, K. V. Minimax estimation of random elements by the mean-square criterion. (Russian. Russian summary) **2004h:93185**
Shah, Sirish L. *see* **Sheng, Jie et al.**
Shaked, Uri *see* **Gershon, E. et al., 2004g:93146**
Shankar, H. N. *see* **Sivaramakumar, G. R. et al., 2004b:93130**
Sheng, Jie (*with* Chen, Tongwen; Shah, Sirish L.) Multirate H_∞ state estimation by a product reduction algorithm. (English summary)
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Sivaramakumar, G. R. (*with* Shankar, H. N.; Rajgopal, K.) An adaptive cascade compensator for a wide class of stable minimum or nonminimum phase plants through time moment estimation. (English summary) **2004b:93130**
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So, H. C. *see* **Savaresi, Sergio M. et al., 2004e:93093**
Stappers, R. *see* **Keesman, K. J.**
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Alonso-Quesada, S. *see* **de la Sen, Manuel et al.**
Baglietto, Marco *see* **Alessandri, Angelo et al., 2004c:93070**
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Banavar, R. N. Extremum seeking loops with quadratic functions: estimation and control. (English summary) **2004g:93120**
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Bibi, Abdelouahab (*with* Francq, Christian) Consistent and asymptotically normal estimators for cyclically time-dependent linear models. (English summary) **2004g:62154**
Bilbao-Guillerna, A. *see* **de la Sen, Manuel et al.**
Calise, Anthony J. *see* **Lavretskiĭ, E. Yu. et al., 2004k:93028**

Carvalho, João (*with* Datta, Karabi; Hong, Yoopyo) A new block algorithm for full-rank solution of the Sylvester-observer equation. (English summary) **2004i:93054**
Castillo-Toledo, Bernardino *see* **Obregón-Pulido, G. et al., 2004g:94015**
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Datta, Karabi *see* **Carvalho, João et al., 2004i:93054**
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Ding, Tao *see* **Ding, Feng[2] et al.**
Dzakpasu, Rhonda *see* **Żochowski, Michał**
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Fowler, Patrick W. *see* **Cvetković, Dragoš M. et al., 2004c:05121**
Francq, Christian *see* **Bibi, Abdelouahab, 2004g:62154**
Fukushima, Masao F. *see* **Lin, Gui Hua, 2004e:90127**
Garrido, A. J. *see* **de la Sen, Manuel et al.**
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— Structured covariances and related approximation questions. (English summary) (*see* **2004e:93003**)
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Gong, Miao Kun *see* **Yang, Chang Li et al.**
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Kristinsdottir, Birna P. *see* **Zabinsky, Zelda B. et al., 2004b:41024**
Kudritskiĭ, V. D. A nonlinear extrapolation algorithm for realizations of a scalar random process. (Russian. English and Ukrainian summaries) **2004j:62197**
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Lin, Gui Hua (*with* Fukushima, Masao F.) Some exact penalty results for nonlinear programs and mathematical programs with equilibrium constraints. (English summary) **2004e:90127**
Lindquist, Anders *see* **Georgiou, Tryphon T., 2004k:94011**
Luk′yanov, A. G. *see* **Obregón-Pulido, G. et al., 2004g:94015**
Marquez, H. J. A frequency domain approach to state estimation. (English summary) **2004c:93118**
McCrorie, J. Roderick The problem of aliasing in identifying finite parameter continuous time stochastic models. (English summary) **2004i:62165**
Metzler, Ralf *see* **Hanke, Andreas**
Mirkin, Leonid (*with* Kahane, A. C.; Palmor, Zalman J.) Achievable H^∞ performance in sampled-data smoothing: beyond the $\|\tilde{D}_1\|$-barrier. (English summary) **2004h:93053**
Moore, Charles F. *see* **Kaistha, Nitin et al.**
Nelson, Philip C. *see* **Storm, Cornelis, 2004f:92016**
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Palmor, Zalman J. *see* **Mirkin, Leonid et al., 2004h:93053**
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Rossell i Garriga, Josep Maria *see* **Bakule, Lubomír et al., 2004d:93005**
Rowlinson, Peter *see* **Cvetković, Dragoš M. et al., 2004c:05121**
Ruan, Rong Yao *see* **Yang, Chang Li et al.**
Runggaldier, Wolfgang J. *see* **Pasquali, Sara, 2004m:93147**
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Smith, Robert L. *see* **Zabinsky, Zelda B. et al., 2004b:41024**
Stevanović, Dragan *see* **Cvetković, Dragoš M. et al., 2004c:05121**
Storm, Cornelis (*with* Nelson, Philip C.) Theory of high-force DNA stretching and overstretching. (English summary) **2004f:92016**
Suda, Tatsuya *see* **Ishizaki, Fumio et al., 2004k:60252**
Tsukerman, E. V. (*with* Tsukerman, V. E.) Agreement of expert estimates. (Russian) (*see* **2004c:00010**)
Tsukerman, V. E. *see* **Tsukerman, E. V.,** (**2004c:00010**)
Tsumura, Koji Complexity of systems and controllers. (English summary) **2004a:93006**
Voĭskovskiĭ, M. I. *see* **Bakhshiyan, B. Ts., 2004h:62121**
Xia, Pengfei (*with* Zhou, Shengli; Giannakis, Georgios B.) Adaptive MIMO-OFDM based on partial channel state information. (English summary)
Xiao, De Yun *see* **Ding, Feng[2] et al.**
Xu, Yan[4] *see* **Deng, Zi Li**
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Zabinsky, Zelda B. (*with* Smith, Robert L.; Kristinsdottir, Birna P.) Optimal estimation of univariate black-box Lipschitz functions with upper and lower error bounds. (English summary) **2004b:41024**
Zeifman, Michael I. (*with* Ingman, Dov) Continuous Markovian model for unexpected shift in SPC. (English summary)
Zhou, Shengli *see* **Xia, Pengfei et al.**
Żochowski, Michał (*with* Dzakpasu, Rhonda) Adaptation of nonlinear systems through dynamic entropy estimation. (English summary)

93E11 Filtering [see also 60G35]

Alcorta Garcia, Maria A. *see* **Basin, M. V., 2004d:93134**
Aldhaheri, Rabah W. Schur decomposition and model reduction in the design of two-dimensional separable-denominator digital filters. (English summary) **2004f:93129**
Anan′ev, B. I. Minimax nonlinear filtering of multistage processes with uncertain distributions of perturbations. (Russian) **2004a:93090**
Assimakis, N. D. (*with* Psarakis, E. Z.; Lainiotis, D. G.) Steady state Kalman filter: a new approach. (English summary) **2004i:93180**
Bakhshai, A. R. *see* **Mojiri, M., 2004m:93130**
Basin, M. V. (*with* Alcorta Garcia, Maria A.) Optimal filtering and control for third degree polynomial system. (English summary) **2004d:93134**
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Bensoussan, Alain Some remarks on linear filtering theory for infinite dimensional systems. (English summary) **2004i:93182**
Billings, Stephen A. *see* **Lee, Kian, 2004d:93136**
Bittanti, Sergio (*with* Cuzzola, Francesco Alessandro) An LMI approach to periodic discrete-time unbiased filtering. (English summary)
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Campbell, Mark E. *see* **Scholte, Eelco, 2004m:93131**
Charalambous, Charalambos D. (*with* Hibey, J. L.) Exact filters for Newton-Raphson parameter estimation algorithms for continuous-time partially observed stochastic systems. (English summary)
Chen, Han-Fu (*with* Yin, Gang George) Asymptotic properties of sign algorithms for adaptive filtering. (English summary) **2004k:93133**
Chen, Tongwen *see* **Xu, Sheng Yuan et al., 2004b:93133**
Chu, Dong Sheng (*with* Zhang, Ling; Liang, Meng; Lin, Heng) Optimal filtering of systems with relevant multiplicative noise of each observation channel. (Chinese. English and Chinese summaries)
Clark, J. M. C. *see* **Vellekoop, M. H., 2004e:93097**
Cocquempot, Vincent *see* **Jiang, Bin et al.**
Cong, Shan *see* **Hong, Lang et al., 2004i:93183**
Cuzzola, Francesco Alessandro *see* **Bittanti, Sergio**
De Man, P. *see* **Preumont, André et al.**
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Dey, Subhrakanti *see* **Yin, Gang George, 2004e:93098**
Diversi, Roberto (*with* Guidorzi, Roberto; Soverini, Umberto) Algorithms for optimal errors-in-variables filtering. (English summary) **2004h:93187**
Evans, Robin J. *see* **Savkin, A. V. et al., 2004h:93190**
Fragoso, Marcelo D. *see* **de Souza, Carlos E., 2004i:93187**

François, A. *see* **Preumont, André et al.**
Fromion, Vincent *see* **Rossignol, L. et al., 2004k:93135**
Gao, Hui Jun (*with* Wang, Chang Hong[1]; Li, Yan Hui[2]) Robust l_2-l_∞ filter design for uncertain discrete-time state-delayed systems. (English and Chinese summaries)
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— (*with* Wang, Chang Hong[1]) Robust L_2-L_∞ filtering for uncertain systems with multiple time-varying state delays. (English summary) **2004e:93095**
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He, Xing *see* **Cai, Yun Ze et al.**
Hermoso Carazo, Aurora *see* **Nakamori, Seiichi et al.**
Heydon, Bryan D. *see* **Maryak, John L. et al., 2004j:93124**
Hibey, J. L. *see* **Charalambous, Charalambos D.**
Hinamoto, Takao *see* **Lu, Wu-Sheng, 2004i:93185**
Ho, Daniel W. C. *see* **Wang, Zidong et al., 2004d:93139**
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Jimenez, Juan Carlos (*with* Ozaki, Tohru) Local linearization filters for non-linear continuous-discrete state space models with multiplicative noise. (English summary) **2004d:93135**
Jiménez-López, J. D. *see* **Nakamori, Seiichi et al.**
Judd, Kevin Nonlinear state estimation, indistinguishable states, and the extended Kalman filter. (English summary) **2004g:93149**
Krener, Arthur J. The convergence of the extended Kalman filter. (English summary) **2004h:93189**
Lai, Yen Tai *see* **Yau, Stephen S.-T., 2004b:93134**
Lainiotis, D. G. *see* **Assimakis, N. D. et al., 2004i:93180**
Lam, James *see* **Xu, Sheng Yuan et al., 2004b:93133**
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Li, Yan Hui[2] *see* **Gao, Hui Jun et al.**
Liang, Meng *see* **Chu, Dong Sheng et al.**
Lin, Heng *see* **Chu, Dong Sheng et al.**
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Mäkilä, Pertti M. (*with* Paattilammi, J.) Steady-state Kalman filtering with nonstationary noise. (English summary) **2004d:93137**
Marquez, H. J. A frequency domain approach to state estimation. (English summary) **2004c:93118**
Martinez-Zuniga, Rodolfo *see* **Basin, M. V. et al., 2004i:93181** *and* **2004m:93129**
Maryak, John L. (*with* Spall, James C.; Heydon, Bryan D.) Use of the Kalman filter for inference in state-space models with unknown noise distributions. (English summary) **2004j:93124**
Meng, Hua (*with* Sun, Shu Li[1]; Shi, Ying[1]; Deng, Zi Li) Reduced-order Wiener filtering, smoothing and predicting for desciptor discrete systems. (Chinese. English and Chinese summaries)
Milheiro de Oliveira, Paula (*with* Picard, Jean) Approximate nonlinear filtering for a two-dimensional diffusion with one-dimensional observations in a low noise channel. (English summary) **2004b:93132**
Miller, Boris M. (*with* Rubinovich, E. Ya.) Kalman filter for controlled hybrid systems. (English summary) **2004i:93186**
Mojiri, M. (*with* Bakhshai, A. R.) An adaptive notch filter for frequency estimation of a periodic signal. (English summary) **2004m:93130**
Morettin, Pedro A. *see* **Zandonade, Eliana**
Mukaidani, Hiroaki Near-optimal Kalman filters for multiparameter singularly perturbed linear systems. (English summary) **2004d:93138**
Nakamori, Seiichi (*with* Hermoso Carazo, Aurora; Jiménez-López, J. D.; Linares Pérez, Josefa) Chandrasekhar-type filter for a wide-sense stationary signal from uncertain observations using covariance information. (English summary)
Oh, Myoungho *see* **Lee, Yong Wan et al., 2004f:93130**
Oudjane, Nadia *see* **Le Gland, François, 2004i:93184**
Ozaki, Tohru *see* **Jimenez, Juan Carlos, 2004d:93135**
Paattilammi, J. *see* **Mäkilä, Pertti M., 2004d:93137**
Peres, Pedro L. D. *see* **Garcia, Germain et al., 2004h:93188**
Persson, Per-Olof (*with* Strang, Gilbert) Smoothing by Savitzky-Golay and Legendre filters. **2004k:93134**
Phooi, Seng Kah Discrete sliding-mode adaptive algorithm for adaptive filtering. (English summary) (*see* **2004h:00019**)
Picard, Jean *see* **Milheiro de Oliveira, Paula, 2004b:93132**
Piefort, V. *see* **Preumont, André et al.**
Preumont, André (*with* François, A.; De Man, P.; Piefort, V.) Spatial filters in structural control. (English summary)
Psarakis, E. Z. *see* **Assimakis, N. D. et al., 2004i:93180**
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Rossignol, L. (*with* Scorletti, Gérard; Fromion, Vincent) Filter design: a finite dimensional convex optimization approach. (English summary) **2004k:93135**
Rubinovich, E. Ya. *see* **Miller, Boris M., 2004i:93186**
Savkin, A. V. (*with* Evans, Robin J.; Skafidas, Efstratios) The problem of optimal robust sensor scheduling. (English summary) **2004h:93190**
Sayed, Ali H. *see* **Subramanian, Ananth, 2004i:93188**
Scholte, Eelco (*with* Campbell, Mark E.) A nonlinear set-membership filter for on-line applications. (English summary) **2004m:93131**
Scorletti, Gérard *see* **Rossignol, L. et al., 2004k:93135**
Shi, Peng *see* **Mahmoud, Magdi S. et al., 2004b:93131** *and* **2004f:93131**
Shi, Ying[1] *see* **Deng, Zi Li et al.** *and* **Meng, Hua et al.**
Shin, V. I. *see* **Lee, Yong Wan et al., 2004f:93130**
Skafidas, Efstratios *see* **Savkin, A. V. et al., 2004h:93190**
Soh, Yeng Chai *see* **Zhang, Huanshui et al., 2004g:93150**
de Souza, Carlos E. (*with* Fragoso, Marcelo D.) $\mathscr{H}_\infty$ filtering for discrete-time linear systems with Markovian jumping parameters. (English summary) **2004i:93187**
Soverini, Umberto *see* **Diversi, Roberto et al., 2004h:93187**
Spall, James C. *see* **Maryak, John L. et al., 2004j:93124**
Staroświecki, Marcel *see* **Jiang, Bin et al.**
Strang, Gilbert Block tridiagonal matrices and the Kalman filter. (English summary) **2004f:93132**
— *see also* **Persson, Per-Olof, 2004k:93134**
Subramanian, Ananth (*with* Sayed, Ali H.) Multiobjective filter design for uncertain stochastic time-delay systems. (English summary) **2004i:93188**
Sun, Shu Li[1] (*with* Deng, Zi Li) Pole-assignment fixed-interval Kalman smoother and Wiener smoother. (English and Chinese summaries)
— *see also* **Deng, Zi Li et al.** *and* **Meng, Hua et al.**
Tarbouriech, Sophie *see* **Garcia, Germain et al., 2004h:93188**
Utina, N. V. Estimates for transient processes in a discrete system of pulse-phase self-tuning of frequency. (Russian. English and Russian summaries) **2004k:93136**
Vellekoop, M. H. (*with* Clark, J. M. C.) A nonlinear filtering approach to changepoint detection problems: direct and differential-geometric methods. (English summary) **2004e:93097**
Wang, Chang Hong[1] *see* **Gao, Hui Jun et al., 2004e:93095** *and* **Wang, Jun Ling[2] et al.**
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Wang, Zidong (*with* Ho, Daniel W. C.; Liu, Xiaohui) Variance-constrained filtering for uncertain stochastic systems with missing measurements. (English summary) **2004d:93139**
Wicker, Devert *see* **Hong, Lang et al., 2004i:93183**
Wu, Jie[2] *see* **Zhang, Duan Jin**
Xie, Li Hua *see* **Zhang, Huanshui et al., 2004g:93150**
Xiong, Jie Large deviation principle for optimal filtering. (English summary) **2004c:93119**
Xu, Sheng Yuan (*with* Chen, Tongwen; Lam, James) Robust H^∞ filtering for uncertain Markovian jump systems with mode-dependent time delays. (English summary) **2004b:93133**
Xu, Xiao Ming *see* **Cai, Yun Ze et al.**
Xu, Yan[4] (*with* Deng, Zi Li) Pole-assignment descriptor steady-state Kalman estimators. (English and Chinese summaries)
— *see also* **Deng, Zi Li et al.**
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Yang, Zhao Jun (*with* Huang, Li Hong) Maximizing the expected logarithmic utility from terminal wealth under the partial information and the valuation of information. (Chinese. English and Chinese summaries)
Yau, Stephen S.-T. (*with* Lai, Yen Tai) Explicit solution of DMZ equation in nonlinear filtering via solution of ODEs. (English summary) **2004b:93134**
Yin, Gang George (*with* Dey, Subhrakanti) Weak convergence of hybrid filtering problems involving nearly completely decomposable hidden Markov chains. (English summary) **2004e:93098**
— *see also* **Chen, Han-Fu, 2004k:93133**
Zandonade, Eliana (*with* Morettin, Pedro A.) Wavelets in state space models. (English summary)
Zhang, Duan Jin (*with* Wu, Jie[2]) Robust H_∞ filtering for delta operator formulated systems with circular pole and error variance constraints. (Chinese. English and Chinese summaries)
Zhang, Huanshui (*with* Xie, Li Hua; Soh, Yeng Chai) Discrete J-spectral factorization. (English summary) **2004g:93150**
Zhang, Ling *see* **Chu, Dong Sheng et al.**
Zhang, Qing[1] Hybrid filtering. (English summary) **2004b:93135**
Zhang, Wei Dong *see* **Cai, Yun Ze et al.**
Zhang, Wei Hai Robust H_∞ filtering of stochastic uncertain systems. (English and Chinese summaries)

Items with secondary classifications in 93E11

Aggoun, Lakhdar *see* **Elliott, Robert J. et al., 2004k:93141**
Alcorta Garcia, Maria A. *see* **Basin, M. V., 2004e:49054**
Aldhaheri, Rabah W. Design of 2-D linear phase digital filters using Schur decomposition and symmetries. (English summary)
Assawinchaichote, Wudhichai *see* **Nguang, Sing Kiong**
Basin, M. V. (*with* Alcorta Garcia, Maria A.) Optimal control for third degree polynomial systems. (English summary) **2004e:49054**
Belitser, Eduard (*with* Levit, Boris) On the empirical Bayes approach to adaptive filtering. (English summary) **2004k:62099**
Bellanger, Maurice G. *see* **Resende, Leonardo S. et al.**
Benmerzouga, Ali *see* **Elliott, Robert J. et al., 2004k:93141**
Bodnar, Rostyslav (*with* Stettner, Łukasz) Asymptotics of controlled finite memory filters. (English summary) **2004f:93136**
Caballero-Águila, Raquel *see* **Nakamori, Seiichi et al., 2004j:93129**
Challa, Subhash (*with* Koks, Don) Bayesian and Dempster-Shafer fusion. (English summary)
Chang, Jer-Ming *see* **Ma, Chih-Kao et al.**
Chen, Li (*with* Poor, H. Vincent) Parametric estimation of quadratic term structure models of interest rates. (English summary)
Chen, Tongwen *see* **Xu, Sheng Yuan, 2004b:94030**
Chi, Chi-Hung *see* **Li, Ming[11]**
Cho, Kyung-Ha Continuous auctions and insider trading: uniqueness and risk aversion. (English summary) **2004a:91061**
Crisan, Dan Exact rates of convergence for a branching particle approximation to the solution of the Zakai equation. (English summary) **2004i:60099**
Deng, Zi Li (*with* Sun, Shu Li[1]) Wiener state estimators based on Kalman filtering. (English and Chinese summaries)
— *see also* **Meng, Hua et al.**
Ebert, Wolfram Optimal filtered predictive control—a delta operator approach. (English summary)
Eckhardt, Ulrich Root images of median filters. (English summary) **2004i:94008**
Elliott, Robert J. (*with* Aggoun, Lakhdar; Benmerzouga, Ali) Finite-dimensional filtering and control for continuous-time nonlinear systems. (English summary) **2004k:93141**
Fuhrman, Marco A class of stochastic optimal control problems in Hilbert spaces: BSDEs and optimal control laws, state constraints, conditioned processes. (English summary) **2004i:93193**
Gao, Hui Jun (*with* Wang, Chang Hong[1]) Delay-dependent robust H_∞ and L_2-L_∞ filtering for a class of uncertain nonlinear time-delay systems. (English summary) **2004g:93060**
Gastaldi, Massimo (*with* Nardecchia, Annamaria) The Kalman filter approach for time-varying β estimation. (English summary)
Genon-Catalot, Valentine A non-linear explicit filter. (English summary) **2004a:60085**
Guo, L. Z. (*with* Zhu, Quan Min) A fast convergent extended Kalman observer for nonlinear discrete-time systems. (English summary) **2004a:93016**
Gyöngy, István (*with* Krylov, Nicolai V.) On the splitting-up method and stochastic partial differential equations. (English summary) **2004c:60182**
Hermoso Carazo, Aurora *see* **Nakamori, Seiichi et al., 2004j:93129**
Heunis, Andrew J. *see* **Lucic, Vladimir M., 2004e:60070**
Hoffmann, Armin (*with* Marx, Bernd; Metzger, Bob) Linear ODE's for describing Σ-Δ-modulators, filter design and error estimations. (English summary) **2004j:94014**
Iglesias, Pablo A. *see* **Zang, Guoqiang, 2004i:94028**
Iiguni, Y. *see* **Inoue, Kaoru**
Inoue, Kaoru (*with* Iiguni, Y.) A fast regularization parameter selection for regularly sampled 2D inputs. (English summary)
Jimenez, Juan Carlos (*with* Ozaki, Tohru) Linear estimation of continuous-discrete linear state space models with multiplicative noise. (English summary) **2004h:93182a**
Kang, Wei *see* **Krener, Arthur J., 2004d:93056**
Kim, Jong Hae Robust $\mathscr{H}_\infty$ and guaranteed-cost filter designs of uncertain time-varying delay systems. (English summary) **2004k:93034**
Koks, Don *see* **Challa, Subhash**
Krener, Arthur J. (*with* Kang, Wei) Locally convergent nonlinear observers. (English summary) **2004d:93056**
Krylov, Nicolai V. *see* **Gyöngy, István, 2004c:60182**
Kwon, Ohmin *see* **Park, Ju-Hyun et al., 2004j:93039**
Lam, James *see* **Xu, Sheng Yuan et al., 2004k:93036**
Le Gland, François (*with* Oudjane, Nadia) Stability and uniform approximation of nonlinear filters using the Hilbert metric and application to particle filters. (English summary) **2004k:62219**
Levit, Boris *see* **Belitser, Eduard, 2004k:62099**
Li, Ming[11] (*with* Chi, Chi-Hung) A correlation-based computational model for synthesizing long-range dependent data. (English summary)
Lin, Daming (*with* Makis, Viliam) Recursive filters for a partially observable system subject to random failure. (English summary) **2004d:60229**
Lin, Dong-Cherng *see* **Ma, Chih-Kao et al.**
Linares Pérez, Josefa *see* **Nakamori, Seiichi et al., 2004j:93129**
Lucic, Vladimir M. (*with* Heunis, Andrew J.) Convergence of nonlinear filters for randomly perturbed dynamical systems. (English summary) **2004e:60070**
Ma, Chih-Kao (*with* Tuan, Pan-Chio; Chang, Jer-Ming; Lin, Dong-Cherng) Adaptive weighting inverse method for the estimation of input loads. (English summary)
Ma, Hong[1] *see* **Zhao, Juan et al., (2004j:94003)**
Makis, Viliam *see* **Lin, Daming, 2004d:60229**
Marnik, Tomasz *see* **Twardowska, Krystyna et al., 2004e:60109**
Marx, Bernd *see* **Hoffmann, Armin et al., 2004j:94014**
Meng, Hua (*with* Shi, Ying[1]; Sun, Shu Li[1]; Deng, Zi Li) Reduced-order fixed-interval optimal Kalman smoother for generalized discrete stochastic linear systems. (Chinese. English and Chinese summaries)
Metzger, Bob *see* **Hoffmann, Armin et al., 2004j:94014**
Milocco, Ruben H. (*with* Muravchik, Carlos H.) H_2 optimal linear robust sampled-data filtering design using polynomial approach. (English summary)
Muravchik, Carlos H. *see* **Milocco, Ruben H.**
Nakamori, Seiichi (*with* Caballero-Águila, Raquel; Hermoso Carazo, Aurora; Linares Pérez, Josefa) Fixed-point smoothing with non-independent uncertainty using covariance information. (English summary) **2004j:93129**
Nardecchia, Annamaria *see* **Gastaldi, Massimo**
Nguang, Sing Kiong (*with* Assawinchaichote, Wudhichai) $\mathscr{H}_\infty$ filtering for fuzzy dynamical systems with $\mathscr{D}$ stability constraints. (English summary)
Oudjane, Nadia *see* **Le Gland, François, 2004k:62219**
Ozaki, Tohru *see* **Jimenez, Juan Carlos, 2004h:93182a**
Park, Ju-Hyun (*with* Kwon, Ohmin; Won, Sangchul) LMI approach to robust $\mathscr{H}_\infty$ filtering for neutral delay differential systems. (English summary) **2004j:93039**
Pasławaska-Połuniak, Monika *see* **Twardowska, Krystyna et al., 2004e:60109**
Phooi, Seng Kah A complex Lyapunov theory-based adaptive algorithm for complex signal processing. (English summary) (*see* **2004h:00019**)
Poor, H. Vincent *see* **Chen, Li**
Potievsky, Vadim F. *see* **Roytman, Leonid M.**
Resende, Leonardo S. (*with* Romano, João Marcos T.; Bellanger, Maurice G.) Split Wiener filtering with application in adaptive systems. (English summary)
Romano, João Marcos T. *see* **Resende, Leonardo S. et al.**
Roytman, Leonid M. (*with* Potievsky, Vadim F.) BIBO stability in 3-D digital filters. (English summary)
Runggaldier, Wolfgang J. On stochastic control in finance. (English summary) **2004m:91121**
Semenikhin, K. V. Minimax estimation of random elements by the mean-square criterion. (Russian. Russian summary) **2004h:93185**
Shi, Ying[1] *see* **Meng, Hua et al.**
Söderström, T. ★ Discrete-time stochastic systems. **2004g:93006**
Spreij, Peter On hidden Markov chains and finite stochastic systems. (English summary) **2004a:93089**
Stettner, Łukasz *see* **Bodnar, Rostyslav, 2004f:93136**
Sun, Shu Li[1] *see* **Meng, Hua et al.** *and* **Deng, Zi Li**
Tuan, Pan-Chio *see* **Ma, Chih-Kao et al.**
Twardowska, Krystyna (*with* Marnik, Tomasz; Pasławaska-Połuniak, Monika) Approximation of the Zakai equation in a nonlinear filtering problem with delay. (English summary) **2004e:60109**
Umeda, Michio *see* **Zhao, Juan et al., (2004j:94003)**
Wang, Chang Hong[1] *see* **Gao, Hui Jun, 2004g:93060**
Wei, Wei[1] *see* **Zhang, Xian-Da, 2004a:94023**
Won, Sangchul *see* **Park, Ju-Hyun et al., 2004j:93039**
Wu, Zhao Jing *see* **Xie, Xue Jun et al.**
Xie, Xue Jun (*with* Wu, Zhao Jing; Zhang, Si Ying) Backstepping adaptive control with MT-filter for time-varying systems. (Chinese. English and Chinese summaries)
Xu, Sheng Yuan (*with* Chen, Tongwen) Reduced-order H_∞ filtering for stochastic systems. (English summary) **2004b:94030**
— (*with* Lam, James; Zou, Yun) H_∞ filtering for singular systems. (English summary) **2004k:93036**
You, Zhi Sheng *see* **Zhao, Juan et al., (2004j:94003)**
Zang, Guoqiang (*with* Iglesias, Pablo A.) Nonlinear extension of Bode's integral based on an information-theoretic interpretation. (English summary) **2004i:94028**
Zhang, Si Ying *see* **Xie, Xue Jun et al.**
Zhang, Xian-Da (*with* Wei, Wei[1]) Blind adaptive multiuser detection based on Kalman filtering. (English summary) **2004a:94023**
Zhao, Juan (*with* Ma, Hong[1]; You, Zhi Sheng; Umeda, Michio) Multiscale Kalman filtering of fractal signals using wavelet transform. (English summary) (*see* **2004j:94003**)
Zhu, Quan Min *see* **Guo, L. Z., 2004a:93016**
Zou, Yun *see* **Xu, Sheng Yuan et al., 2004k:93036**

93E12 System identification

Bernstein, Dennis S. *see* **Lacy, Seth L., 2004h:93193**
Byrnes, Christopher I. (*with* Enqvist, Per; Lindquist, Anders) Identifiability and well-posedness of shaping-filter parameterizations: a global analysis approach. (English summary) **2004c:93120**
Camba-Mendez, Gonzalo (*with* Kapetanios, George) Bootstrap statistical tests of rank determination for system identification. (English summary) **2004j:93125**
Chen, Han-Fu Noisy observation based stabilization and optimization for unknown systems. (English summary) **2004h:93191**
— *see also* **Yin, Gang George, 2004h:93194**
Chernikova, O. S. *see* **Denisov, Vladimir Ivanovich et al.**
Chubich, V. M. *see* **Denisov, Vladimir Ivanovich et al.**
Cocquempot, Vincent *see* **Jiang, Bin et al., 2004m:93133**
Costa, Eduardo F. (*with* do Val, João B. R.) On the detectability and observability of discrete-time Markov jump linear systems. (English summary) **2004e:93099**
Darkhovskiĭ, Boris (*with* Staroświecki, Marcel) A game-theoretic approach to decision in FDI. (English summary) **2004m:93132**
De Moor, Bart *see* **Goethals, Ivan et al., 2004j:93126**
Deng, Zi Li *see* **Shi, Ying[1] et al.**
Denisov, Vladimir Ivanovich (*with* Chubich, V. M.; Chernikova, O. S.) Active parametric identification of stochastic linear discrete systems in a time domain. (Russian. Russian summary)
Ding, Feng[2] (*with* Xiao, De Yun; Ding, Tao) Multi-innovation stochastic gradient identification method. (Chinese. English and Chinese summaries)
Ding, Steven Xianchun *see* **Ye, Hao et al., 2004j:93128**
Ding, Tao *see* **Ding, Feng[2] et al.**
Du, Suguo *see* **Shields, D. N., 2004b:93136**
Enqvist, Per *see* **Byrnes, Christopher I. et al., 2004c:93120**
Ferreira, José Rui *see* **Figueiredo, Lino et al.**
Figueiredo, Lino (*with* Tenreiro Machado, J. A.; Ferreira, José Rui) Fractional-order dynamics in freeway traffic. (English summary)

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Galiana, Henrietta L. *see* **Kukreja, Sunil L. et al.**
Gallivan, Martha A. (*with* Murray, Richard M.) Reduction and identification methods for Markovian control systems, with application to thin film deposition. (English summary)
Gear, C. William *see* **Li, Ju² et al., 2004j:93127**
Gerencsér, László (*with* Michaletzky, György) Risk sensitive identification of ARMA processes. (English summary) (*see* **2004e:93003**)
Gevers, Michel *see* **Hildebrand, Roland, 2004c:93122**
Goethals, Ivan (*with* Van Gestel, Tony; Suykens, Johan; Van Dooren, Paul; De Moor, Bart) Identification of positive real models in subspace identification by using regularization. (English summary) **2004j:93126**
Greblicki, Włodzimierz Stochastic approximation in nonparametric identification of Hammerstein systems. (English summary) **2004c:93121**
Grimble, Michael J. Discrete-time polynomial systems approach to combined fault monitoring and control. (English summary) **2004d:93140**
Hildebrand, Roland (*with* Gevers, Michel) Identification for control: optimal input design with respect to a worst-case ν-gap cost function. (English summary) **2004c:93122**
Jiang, Bin (*with* Staroświecki, Marcel; Cocquempot, Vincent) Fault diagnosis based on adaptive observer for a class of non-linear systems with unknown parameters. (English summary) **2004m:93133**
Jiang, Jin *see* **Li, Wei Hua², 2004k:93137**
Jin, Xue Xiang *see* **Zhou, Tong¹, 2004c:93123**
Kapetanios, George *see* **Camba-Mendez, Gonzalo, 2004j:93125**
Karandikar, Rajeeva L. *see* **Vidyasagar, M., 2004a:93092**
Kearney, Robert E. *see* **Kukreja, Sunil L. et al.**
Kevrekidis, Ioannis G. *see* **Li, Ju² et al., 2004j:93127**
Kevrekidis, Panayotis G. *see* **Li, Ju² et al., 2004j:93127**
Konda, Vijay R. (*with* Tsitsiklis, John N.) Linear stochastic approximation driven by slowly varying Markov chains. (English summary) **2004h:93192**
Kortunov, V. I. An iterative method for the recovery of perturbations of real-time linear time-independent dynamical systems. (Russian. Russian summary)
Kukreja, Sunil L. (*with* Galiana, Henrietta L.; Kearney, Robert E.) A bootstrap method for structure detection of NARMAX models. (English summary)
Kulisiewicz, Maciej (*with* Piesiak, Stanisław; Wajda, Mariusz) Identification of nonlinear dynamical systems under random impulse excitations. (English summary)
Lacy, Seth L. (*with* Bernstein, Dennis S.) Identification of FIR Wiener systems with unknown, non-invertible, polynomial non-linearities. (English summary) **2004h:93193**
Lee, Jae-Won *see* **Phan, Minh Q. et al.**
Lee, Soo Cheol *see* **Phan, Minh Q. et al.**
Li, Ju² (*with* Kevrekidis, Panayotis G.; Gear, C. William; Kevrekidis, Ioannis G.) Deciding the nature of the coarse equation through microscopic simulations: the baby-bathwater scheme. (English summary) **2004j:93127**
Li, Wei Hua² (*with* Jiang, Jin) Isolation of parametric faults in continuous-time multivariable systems: a sampled data-based approach. (English summary) **2004k:93137**
Lindquist, Anders *see* **Byrnes, Christopher I. et al., 2004c:93120**
Longman, Richard W. *see* **Phan, Minh Q. et al.**
Michaletzky, György *see* **Gerencsér, László, (2004e:93003)**
Monin, André ARMAX identification via hereditary algorithm. (English summary) **2004k:93138**
Murray, Richard M. *see* **Gallivan, Martha A.**
Oishi, Yasuaki Distribution-free approach to probabilistic model-set identification. (English summary) **2004a:93091**
Phan, Minh Q. (*with* Longman, Richard W.; Lee, Soo Cheol; Lee, Jae-Won) System identification from multiple-trial data corrupted by non-repeating periodic disturbances. (English summary)
Piesiak, Stanisław *see* **Kulisiewicz, Maciej et al.**
Pirogov, S. P. *see* **Rasshcheplyaev, Yu. S., 2004i:93189**
Rasshcheplyaev, Yu. S. (*with* Pirogov, S. P.) An algorithm for the adaptive estimation of random processes based on dynamic stochastic approximation. (Russian. English, Russian and Ukrainian summaries) **2004i:93189**
Safi, S. (*with* Zeroual, A.) Blind identification in noisy environment of nonminimum phase finite impulse response (FIR) system using higher order statistics. (English summary)
Sheng, Yong Liang *see* **Shi, Ying¹ et al.**
Shi, Ying¹ (*with* Sheng, Yong Liang; Sun, Shu Li[1]; Deng, Zi Li) Reduced-order fixed-interval optimal Kalman smoother for discrete stochastic linear descriptor systems. (Chinese. English and Chinese summaries)
Shields, D. N. (*with* Du, Suguo) Fault detection observers for continuous non-linear polynomial systems of general degree. (English summary) **2004b:93136**
Staroświecki, Marcel *see* **Darkhovskiĭ, Boris, 2004m:93132** *and* **Jiang, Bin et al., 2004m:93133**
Sun, Shu Li[1] *see* **Shi, Ying¹ et al.**
Suykens, Johan *see* **Goethals, Ivan et al., 2004j:93126**
Tenreiro Machado, J. A. *see* **Figueiredo, Lino et al.**
Tsitsiklis, John N. *see* **Konda, Vijay R., 2004h:93192**
do Val, João B. R. *see* **Costa, Eduardo F., 2004e:93099**
Van Dooren, Paul *see* **Goethals, Ivan et al., 2004j:93126**
Van Gestel, Tony *see* **Goethals, Ivan et al., 2004j:93126**
Vidyasagar, M. (*with* Karandikar, Rajeeva L.) System identification: a learning theory approach. (English summary) **2004a:93092**
Vörös, Jozef Parameter identification of Wiener systems with discontinuous nonlinearities. (English summary) **2004f:93133**
Wajda, Mariusz *see* **Kulisiewicz, Maciej et al.**
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Xiao, De Yun *see* **Ding, Feng² et al.**
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93E14 Data smoothing

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Nie, Qiang *see* **Shen, Yi[2]**
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Ghosh, Mrinal K. *see* **Borkar, Vivek S., 2004g:93152**
Gnedenko, B. D. A stochastic maximization problem for a linear functional with a charge for decision making. (Russian) **2004m:93142**
Grigoriadis, Karolos M. *see* **Shi, Guojun et al.**
Guan, Xin Ping *see* **Hua, Chang Chun**
Herbon, Avi (*with* Khmelnitsky, Eugene; Maimon, Oded; Yakubov, Yakov) Reduction of future information required for optimal control of dynamic systems: a pseudostochastic model. (English summary) **2004d:93141**
— (*with* Khmelnitsky, Eugene; Blanchini, Franco) Effective information for offline stochastic feedback and optimal control of dynamic systems. (English summary) **2004b:93139**
Hernández-Lerma, Onésimo *see* **Hilgert, Nadine, 2004f:93137**
Hilgert, Nadine (*with* Hernández-Lerma, Onésimo) Bias optimality versus strong 0-discount optimality in Markov control processes with unbounded costs. (English summary) **2004f:93137**
— (*with* Minjárez-Sosa, J. Adolfo) Limiting average cost adaptive control problem for time-varying stochastic systems. (English summary) **2004g:93154**
Hongler, Max-Olivier (*with* Soner, Halil Mete; Streit, Ludwig) Stochastic control for a class of random evolution models. (English summary) **2004m:93143**
Hu, Ying[1] (*with* Zhou, Xun Yu) Indefinite stochastic Riccati equations. (English summary) **2004c:93126**
Hua, Chang Chun (*with* Guan, Xin Ping) Comments on: "State feedback stabilization for a class of stochastic time-delay nonlinear systems" [IEEE Trans. Automat. Control **48** (2003), no. 2, 282–286] by Y. Fu, Z. Tian and S. Shi. (English summary)
Huang, Zhi Long *see* **Zhu, W. Q. et al., (2004j:60007)**
Ji, Hai Bo *see* **Wang, Jun[8] et al.**
Karatzas, Ioannis *see* **Beneš, Václav E. et al., 2004m:93138**
Khmelnitsky, Eugene *see* **Herbon, Avi et al., 2004b:93139** *and* **2004d:93141**
Kohlmann, Michael (*with* Tang, Shanjian) Multidimensional backward stochastic Riccati equations and applications. (English summary) **2004a:93095**
— (*with* Tang, Shanjian) Minimization of risk and linear quadratic optimal control theory. (English summary) **2004f:93138**
Kovaleva, Agnessa Near-resonance frequency control under random perturbations of the parameters. (Russian. Russian summary) **2004m:93144**
Kuchkina, Natalia V. Optimal control with incomplete data. (English summary) **2004k:93142**
Kuroda, Kazutaka (*with* Nagai, Hideo) Risk-sensitive portfolio optimization on infinite time horizon. (English summary) **2004a:93096**
Lefebvre, Mario A different class of homing problems. (English summary)
— A homing problem for diffusion processes with control-dependent variance. (English summary) **2004m:93145**
Li, Duan (*with* Qian, Fu Cai; Fu, Peilin) Variance minimization in stochastic systems. **2004b:93140**
Li, Kang Di *see* **Zhu, Jing Hao, 2004m:93148**
Li, Suo Ping (*with* Liu, Kun Hui; Yang, Haibo) Singular stochastic control problem with general cost structure and stopping time. (English summary) **2004f:93139**
— (*with* Yang, Haibo) A class of singular stochastic control with reflecting and absorbing barrier. (English summary) **2004k:93143**
— (*with* Liu, Kun Hui; Yang, Haibo) Existence and variation equations of singular stochastic control with fail-stop strategy. (English summary) **2004k:93144**
Li, Xun[1] (*with* Zhou, Xun Yu; Ait Rami, Mustapha) Indefinite stochastic linear quadratic control with Markovian jumps in infinite time horizon. (English summary) **2004i:93194**
Li, Yan Jie[1] *see* **Yin, Bao Qun et al.**
Liu, Kun Hui (*with* Qin, Mingda; Lu, Chuanlai) A class of stationary models of singular stochastic control. (English summary) **2004j:93134**
— *see also* **Li, Suo Ping et al., 2004f:93139** *and* **2004k:93144**
Liu, Rui Hua *see* **Zhang, Qing[1] et al., 2004c:93128**
Liu, Zi-Kuan *see* **Boukas, El-Kébir et al., 2004a:93094**
Lu, Chuanlai *see* **Liu, Kun Hui et al., 2004j:93134**
Luo, Cheng-Xin (*with* Feng, En Min) Indefinite stochastic LQ control with cross term via semidefinite programming. (English summary) **2004f:93140**
Maimon, Oded *see* **Herbon, Avi et al., 2004d:93141**

Mendiondo, Marta S. (*with* Stockbridge, Richard H.) Long term average control of a local time process. (English summary) **2004k:93145**
Minjárez-Sosa, J. Adolfo *see* **Hilgert, Nadine**, **2004g:93154**
Morozan, Toader *see* **Dragan, Vasile et al.**, **2004c:93100**
Musiela, Marek (*with* Zariphopoulou, Thaleia) An example of indifference prices under exponential preferences. (English summary) **2004m:93146**
Nagai, Hideo *see* **Kuroda, Kazutaka**, **2004a:93096**
Ocone, Daniel *see* **Beneš, Václav E. et al.**, **2004m:93138**
Ohmori, Katsushi *see* **Fujita, Yasuhiro**, **2004b:93138**
Pasquali, Sara (*with* Runggaldier, Wolfgang J.) Approximations of a controlled diffusion model for renewable resource exploitation. (English summary) **2004m:93147**
Pogorelov, V. A. *see* **Sokolov, S. V.**
Qian, Fu Cai *see* **Li, Duan et al.**, **2004b:93140**
Qin, Mingda *see* **Liu, Kun Hui et al.**, **2004j:93134**
Runggaldier, Wolfgang J. *see* **Pasquali, Sara**, **2004m:93147**
Shi, Guojun (*with* Skelton, Robert E.; Grigoriadis, Karolos M.) Minimun output variance control for FSN models: continuous-time case. (English summary)
(Shi, Song Jiao) *see* **Hua, Chang Chun**
Skelton, Robert E. *see* **Shi, Guojun et al.**
Sokolov, S. V. (*with* Pogorelov, V. A.) On the use of information criteria in problems of the control of nonlinear stochastic systems. (Russian. English, Russian and Ukrainian summaries)
Soner, Halil Mete (*with* Touzi, Nizar) Dynamic programming for stochastic target problems and geometric flows. (English summary) **2004d:93142**
— *see also* **Hongler, Max-Olivier et al.**, **2004m:93143**
Soong, T. T. *see* **Ying, Zuguang et al.**
Stettner, Łukasz Bayesian adaptive control of discrete time partially observed Markov processes. (English summary) **2004g:93155**
— *see also* **Bodnar, Rostyslav**, **2004f:93136**
Stockbridge, Richard H. *see* **Mendiondo, Marta S.**, **2004k:93145**
Stoica, Adrian M. *see* **Dragan, Vasile et al.**, **2004e:93100**
Streit, Ludwig *see* **Hongler, Max-Olivier et al.**, **2004m:93143**
Święch, Andrzej Risk-sensitive control and differential games in infinite dimensions. **2004d:93143**
Tang, Cheng (*with* Başar, Tamer) Minimax nonlinear control under stochastic uncertainty constraints. (English summary) **2004k:93146**
Tang, Hao *see* **Xi, Hong Sheng et al.**, **2004e:93101**
Tang, Shanjian *see* **Kohlmann, Michael**, **2004a:93095** *and* **2004f:93138**
(Tian, Zuo-hua) *see* **Hua, Chang Chun**
Touzi, Nizar *see* **Soner, Halil Mete**, **2004d:93142**
Ungureanu, Viorica Mariela Riccati equation of stochastic control and stochastic uniform observability in infinite dimensions. (English summary) **2004g:93156**
Wang, Hui[4] *see* **Beneš, Václav E. et al.**, **2004m:93138**
Wang, Jun[8] (*with* Xi, Hong Sheng; Ji, Hai Bo; Chen, Zhi Fu) Adaptive inverse optimal control for strict-feedback stochastic nonlinear systems. (Chinese. English and Chinese summaries)
Wang, Xiang Rong (*with* Gao, Zi You; Wu, Zhen) Forward-backward stochastic differential equation and the linear quadratic stochastic optimal control. (English and Chinese summaries)
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Wu, Zhen (*with* Wang, Xiang Rong) FBSDE with Poisson process and its application to linear quadratic stochastic optimal control problem with random jumps. (English and Chinese summaries)
— *see also* **Wang, Xiang Rong et al.**
Xi, Hong Sheng (*with* Tang, Hao; Yin, Bao Qun) Optimal policies for a continuous time MCP with compact action set. (English and Chinese summaries) **2004e:93101**
— *see also* **Wang, Jun[8] et al.** *and* **Yin, Bao Qun et al.**
Yakubov, Yakov *see* **Herbon, Avi et al.**, **2004d:93141**
Yang, Haibo *see* **Li, Suo Ping et al.**, **2004f:93139**; **2004k:93143** *and* **2004k:93144**
Yang, Huanan (*with* Yin, Gang George; Yin, Kewen; Zhang, Qing[1]) Control of singularly perturbed Markov chains: a numerical study. (English summary) **2004c:93127**
Yin, Bao Qun (*with* Li, Yan Jie[1]; Zhou, Ya Ping; Xi, Hong Sheng) Optimal stationary policies for semi-Markov control processes with discounted-cost criteria. (Chinese. English and Chinese summaries)
— *see also* **Xi, Hong Sheng et al.**, **2004e:93101**
Yin, Gang George *see* **Yang, Huanan et al.**, **2004c:93127** *and* **Zhang, Qing[1] et al.**, **2004c:93128**
Yin, Kewen *see* **Yang, Huanan et al.**, **2004c:93127**
Ying, Zuguang (*with* Zhu, W. Q.; Soong, T. T.) A stochastic optimal semi-active control strategy for ER/MR dampers. (English summary)
Yoneyama, Jun Risk-sensitive optimal control for jump systems with application to sampled-data systems. (English summary) **2004d:93144**
Zariphopoulou, Thaleia *see* **Musiela, Marek**, **2004m:93146**
Zervos, Michael A problem of sequential entry and exit decisions combined with discretionary stopping. (English summary) **2004b:93141**
Zhang, Qing[1] (*with* Liu, Rui Hua; Yin, Gang George) Nearly optimal controls of Markovian systems. **2004c:93128**
— *see also* **Yang, Huanan et al.**, **2004c:93127**
Zhang, Rachel Q. *see* **Ahn, Hyun-Soo et al.**, **2004k:93140**
Zhang, Wei Hai *see* **Chen, Bor-Sen**, **2004i:93192**
Zhao, Ming Wang Optimal control for multiness stochastic discrete systems. (Chinese. English and Chinese summaries)
Zhou, Xun Yu *see* **Hu, Ying[1]**, **2004c:93126** *and* **Li, Xun[1] et al.**, **2004i:93194**
Zhou, Ya Ping *see* **Yin, Bao Qun et al.**
Zhu, Jing Hao (*with* Li, Kang Di) An iterative method for solving stochastic Riccati differential equations for the stochastic LQR problem. (English summary) **2004m:93148**
Zhu, W. Q. (*with* Huang, Zhi Long) Lyapunov exponent and stability of optimally controlled quasi partially integrable Hamiltonian systems. (English summary) (*see* **2004j:60007**)
— (*with* Deng, M. L.; Huang, Zhi Long) Optimal bounded control of first-passage failure of quasi-integrable Hamiltonian systems with wide-band random excitation. (English summary)
— (*with* Deng, M. L.) Optimal bounded control for minimizing the response of quasi non-integrable Hamiltonian systems. (English summary) **2004m:93149**
— *see also* **Ying, Zuguang et al.**

Items with secondary classifications in 93E20

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Ahmed, N. U. Optimal control of impulsive stochastic evolution inclusions. (English summary) **2004d:49047**
— Generalized solutions of HJB equations applied to stochastic control on Hilbert space. (English summary) **2004c:49066**
Alvarez, Luis H. R. On the properties of r-excessive mappings for a class of diffusions. (English summary) **2004j:60167**
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Amilon, Henrik (*with* Bermin, Hans-Peter) Welfare effects of controlling labor supply: an application of the stochastic Ramsey model. (English summary) **2004h:91090**
Amman, Hans M. (*with* Kendrick, David A.) Mitigation of the Lucas critique with stochastic control methods. (English summary) **2004i:91156**
Atar, Rami (*with* Mandelbaum, Avi; Reiman, Martin I.) A Brownian control problem for a simple queueing system in the Halfin-Whitt regime. (English summary) **2004k:90022**
Baccarin, Stefano Optimal impulse control for cash management with quadratic holding-penalty costs. (English summary) **2004a:91055**
Badowski, G. (*with* Yin, Gang George; Zhang, Qing[1]) Asymptotic properties and associated control problems of discrete-time singularly perturbed Markov chains. (English summary) **2004a:93052**
Bahlali, Seid *see* **Mezerdi, Brahim**, **2004b:49062**
Bardos, Claude (*with* Douady, Raphaël; Fursikov, Andrei V.) Static hedging of barrier options with a smile: an inverse problem. (English summary) **2004b:91086**
Barron, E. N. (*with* Cardaliaguet, Pierre; Jensen, Robert R.) Conditional essential suprema with applications. (English summary) **2004f:60006**
Becherer, Dirk Utility-indifference hedging and valuation via reaction-diffusion systems. (English summary) **2004m:91099**
Bensoussan, Alain (*with* Frehse, Jens) ★ Regularity results for nonlinear elliptic systems and applications. (English summary) **2004a:35001**
Bermin, Hans-Peter *see* **Amilon, Henrik**, **2004h:91090**
Bernhard, Pierre Minimax—or feared value—L^1/L^∞ control. (English summary) **2004b:49054**
Bi, Qiu Xiang (*with* Li, Ji Feng) Controlled branching processes in random environments. (Chinese. English and Chinese summaries) **2004h:60130**
Billings, Lora *see* **Schwartz, Ira B. et al.**, (**2004k:92003**)
Boĭko, V. K. *see* **Minyuk, Stepan et al.**, **2004e:49042**
Boltyanskii, Vladimir Grigor'evich *see* **Poznyak, A. S. et al.**, **2004d:49071**
Bonnans, Joseph Frédéric (*with* Zidani, Housnaa) Consistency of generalized finite difference schemes for the stochastic HJB equation. (English summary) **2004i:49061**
Bosch Princep, Manuela *see* **Devolder, Pierre et al.**, **2004i:91085**
Bothe, Dieter Instantaneous limits of reversible chemical reactions in presence of macroscopic convection. (English summary) **2004f:34072**
Boukas, Andreas *see* **Accardi, Luigi**, **2004d:81057**
Bruns, Peter Optimality of randomized strategies in a Markovian replacement model. (English summary) **2004h:90014**
Buckdahn, Rainer (*with* Răşcanu, Aurel) On the existence of stochastic optimal control of distributed state system. (English summary) **2004b:49039**
Cadenillas, Abel A stochastic maximum principle for systems with jumps, with applications to finance. (English summary) **2004g:49051**
Cardaliaguet, Pierre *see* **Barron, E. N. et al.**, **2004f:60006**
Cassandras, Christos G. (*with* Sun, Gang[1]; Panayiotou, Christos G.; Wardi, Yorai) Perturbation analysis and control of two-class stochastic fluid models for communication networks. (English summary) **2004b:90019**
Ceci, Claudia (*with* Gerardi, Anna) Controlled partially observed jump processes: dynamics dependent on the observed history. (English summary) **2004b:49059**
Chakravarthy, Srinivas R. *see* **Dudin, Aleksandr**, **2004d:60237**
Chancelier, J.-Ph. (*with* Øksendal, Bernt; Sulem, Agnès) Combined stochastic control and optimal stopping, and application to numerical approximation of combined stochastic and impulse control. (English summary) **2004b:60111**
Chang, Hyeong Soo (*with* Fard, Pedram Jaefari; Marcus, Steven I.; Shayman, Mark) Multitime scale Markov decision processes. (English summary) **2004b:90139**
Chen, Han-Fu Almost sure convergence of iterative learning control for stochastic systems. (English summary) **2004f:93142**
Chen, Shaoxiang The optimality of hedging point policies for stochastic two-product flexible manufacturing systems. (English summary)
Chen, Tongwen *see* **Xu, Sheng Yuan et al.**, **2004m:93041**
Chen, Zhen (*with* Gumel, A. B.; Mickens, Ronald E.) Nonstandard discretizations of the generalized Nagumo reaction-diffusion equation. (English summary) **2004c:65087**
Cho, Kyung-Ha Continuous auctions and insider trading: uniqueness and risk aversion. (English summary) **2004a:91061**
Choi, Jin Young *see* **Reveliotis, Spyros A.**, **2004h:93124**
Chou, Yi-Hwa *see* **Sheu, Jiuh-Biing et al.**, **2004g:90018**
Choulli, Tahir (*with* Taksar, Michael I.; Zhou, Xun Yu) A diffusion model for optimal dividend distribution for a company with constraints on risk control. (English summary) **2004d:49086**
Costa, Eduardo F. (*with* do Val, João B. R.) On the observability and detectability of continuous-time Markov jump linear systems. (English summary) **2004a:93087**
Costa, Oswaldo L. V. (*with* Tuesta, E. F.) Finite horizon quadratic optimal control and a separation principle for Markovian jump linear systems. (English summary) **2004j:49054**
Czornik, Adam (*with* Świerniak, Andrzej) On the discrete JLQ and JLQG problems. (English summary) **2004b:49060**
Dahleh, Mohammed *see* **D'Alessandro, Domenico et al.**, **2004i:37006**

Dai, Min² *see* **Jiang, Li-shang**, 2004m:91114
D'Alessandro, Domenico (*with* Mezić, Igor; Dahleh, Mohammed) Statistical properties of controlled fluid flows with applications to control of mixing. (English summary) **2004i:37006**
Damgaard, Anders (*with* Fuglsbjerg, Brian; Munk, Claus) Optimal consumption and investment strategies with a perishable and an indivisible durable consumption good. (English summary) **2004g:91068**
Davis, Mark H. A. *see* **Pasik-Duncan, Bozenna et al.**
Deng, Wei Jun Optimal investment with transaction costs under a hyperbolic Lévy model. (Chinese. English and Chinese summaries) **2004b:91094**
Devolder, Pierre (*with* Bosch Princep, Manuela; Dominguez Fabian, Inmaculada) Stochastic optimal control of annuity contracts. (English summary) **2004i:91085**
Dominguez Fabian, Inmaculada *see* **Devolder, Pierre et al.**, 2004i:91085
Douady, Raphaël *see* **Bardos, Claude et al.**, 2004b:91086
Duda, Z. Two-level hierarchical control in a large-scale stochastic dynamic system. (English summary) **2004b:93004**
Dudin, Aleksandr (*with* Chakravarthy, Srinivas R.) Optimal hysteretic control for the $BMAP/G/1$ system with single and group service modes. (English summary) **2004d:60237**
Duncan, Tyrone E. *see* **Poznyak, A. S. et al.**, 2004d:49071
Durán, Jorge Discounting long run average growth in stochastic dynamic programs. (English summary) **2004f:91120**
Elliott, Robert J. *see* **Pasik-Duncan, Bozenna et al.**
Engelbrecht, Sascha E. *see* **Katsikopoulos, Konstantinos V.**, 2004b:90141
Ermol′ev, Yu. M. (*with* Ermol′eva, T. Yu.; MacDonald, Gordon J. F.; Norkin, Vladimir) Problems of catastrophic risk insurance. (Russian. English and Ukrainian summaries) **2004c:91063**
— *see also* **Dynamic stochastic optimization**, 2004j:90007
Ermol′eva, T. Yu. *see* **Ermol′ev, Yu. M. et al.**, 2004c:91063
Evstigneev, Igor V. (*with* Schürger, Klaus; Taksar, Michael I.) On the fundamental theorem of asset pricing: random constraints and bang-bang no-arbitrage criteria. (English summary) **2004m:91107**
Fard, Pedram Jaefari *see* **Chang, Hyeong Soo et al.**, 2004b:90139
Feng, En Min *see* **Luo, Cheng-Xin**, 2004i:91037
Ferreira, Chelo (*with* López García, José Luis; Miana, Pedro J.) Two algorithms for computing the Randles-Sevcik function from electrochemistry. (English summary)
Framstad, Nils Chr. Non-robustness with respect to intervention costs in optimal control. (English summary)
Frehse, Jens *see* **Bensoussan, Alain**, 2004a:35001
Freiling, Gerhard (*with* Hochhaus, A.) About a generalized algebraic Riccati equation. (English summary) **2004f:49063**
Fuglsbjerg, Brian *see* **Damgaard, Anders et al.**, 2004g:91068
Fursikov, Andrei V. *see* **Bardos, Claude et al.**, 2004b:91086
Gajrat, Alexander (*with* Hordijk, Arie; Ridder, Ad) Large-deviations analysis of the fluid approximation for a controllable tandem queue. (English summary) **2004k:60250**
Gerardi, Anna *see* **Ceci, Claudia**, 2004b:49059
Giavitto, Jean-Louis Topological collections, transformations and their application to the modeling and the simulation of dynamical systems.
González-Hernández, Juan *see* **Hernández-Lerma, Onésimo et al.**, 2004c:90085
González-Trejo, J. I. (*with* Hernández-Lerma, Onésimo; Hoyos-Reyes, L. F.) Minimax control of discrete-time stochastic systems. (English summary) **2004c:49064**
Grecksch, W. (*with* Heyde, F.; Isac, George; Tammer, Christiane) A characterization of approximate solutions of multiobjective stochastic optimal control problems. (English summary) **2004a:90081**
Gumel, A. B. *see* **Chen, Zhen et al.**, 2004c:65087
Haugh, Martin B. (*with* Kogan, Leonid) Pricing American options: a duality approach. (English summary)
Hernández-Lerma, Onésimo (*with* González-Hernández, Juan; López-Martínez, Raquiel R.) Constrained average cost Markov control processes in Borel spaces. (English summary) **2004c:90085**
— *see also* **González-Trejo, J. I. et al.**, 2004c:49064
Heyde, F. *see* **Grecksch, W. et al.**, 2004a:90081
Hochhaus, A. *see* **Freiling, Gerhard**, 2004f:49063
Holt, David *see* **Schwartz, Ira B. et al.**, (2004k:92003)
Hordijk, Arie *see* **Gajrat, Alexander et al.**, 2004k:60250
Hoyos-Reyes, L. F. *see* **González-Trejo, J. I. et al.**, 2004c:49064
Hubalek, Friedrich (*with* Schachermayer, Walter) Optimizing expected utility of dividend payments for a Brownian risk process and a peculiar nonlinear ODE. (English summary) **2004m:91135**
Isac, George *see* **Grecksch, W. et al.**, 2004a:90081
Ivanova, A. P. Feedback control for a stochastic heat equation. (Russian. Russian summary) **2004k:60177**
Jacka, Saul (*with* Tribe, Roger) Comparisons for measure valued processes with interactions. (English summary) **2004d:60122**
Jakobsen, Espen Robstad On the rate of convergence of approximation schemes for Bellman equations associated with optimal stopping time problems. (English summary) **2004g:49054**
Jensen, Robert R. *see* **Barron, E. N. et al.**, 2004f:60006
Jiang, Li-shang (*with* Dai, Min²) Convergence of the explicit difference scheme and the binomial tree method for American options. (English summary) **2004m:91114**
Jonsson, Mattias (*with* Sircar, K. Ronnie) Optimal investment problems and volatility homogenization approximations. (English summary) **2004j:91134**
Josa-Fombellida, Ricardo (*with* Rincón-Zapatero, Juan Pablo) Optimal risk management in defined benefit stochastic pension funds. (English summary)
Kamihigashi, Takashi Necessity of transversality conditions for stochastic problems. (English summary) **2004d:91170**
Karguine, Slava Optimal asset allocation with asymptotic criteria. (English summary)
Katsikopoulos, Konstantinos V. (*with* Engelbrecht, Sascha E.) Markov decision processes with delays and asynchronous cost collection. (English summary) **2004b:90141**
Kelome, Djivede (*with* Święch, Andrzej) Viscosity solutions of an infinite-dimensional Black-Scholes-Barenblatt equation. (English summary) **2004j:49046**
Kendrick, David A. *see* **Amman, Hans M.**, 2004i:91156
Kikuta, Kensaku Game theoretic analysis of a stochastic inventory control problem.
Kogan, Leonid *see* **Haugh, Martin B.**
Koike, Shigeaki (*with* Morimoto, Hiroaki) Variational inequalities for leavable bounded-velocity control. (English summary) **2004b:49061**
Kolmanovsky, I. V. (*with* Maizenberg, T. L.) Optimal control of continuous-time linear systems with a time-varying, random delay. (English summary) **2004e:49037**
Kraft, Holger Elasticity approach to portfolio optimization. (English summary) **2004e:91064**
Krawczyk, Jacek B. A Markovian approximated solution to a portfolio management problem. (English summary) **2004d:91115**
Kunniyur, Srisankar S. (*with* Srikant, R.) Stable, scalable, fair congestion control and AQM schemes that achieve high utilization in the internet. (English summary) **2004i:90019**
Kusterbeck, Anne W. *see* **Schwartz, Ira B. et al.**, (2004k:92003)
Lam, James *see* **Xu, Sheng Yuan et al.**, 2004m:93041
Lefebvre, Mario Survival maximization for a Laguerre population. (English summary) **2004d:60215**
Li, Ji Feng *see* **Bi, Qiu Xiang**, 2004h:60130
Lisei, Hannelore A minimum principle for the stochastic Navier-Stokes equation. (English summary) **2004m:60140**
Liu, Jian Yong (*with* Zhao, Xiaobo) On average reward semi-Markov decision processes with a general multichain structure. (English summary)
Liu, Kun Hui Some problems on a class of diffusion variational equations. (Chinese. English and Chinese summaries) **2004k:34012**
— (*with* Qin, Mingda; Lu, Chuanlai) On sufficient and necessary of existence for a class of singular optimal stochastic control. (English summary) [On sufficient and necessary conditions of existence for a class of singular optimal stochastic control] **2004i:49039**
Liu, Yungang (*with* Zhang, Jifeng; Pan, Zigang) Design of satisfaction output feedback controls for stochastic nonlinear systems under quadratic tracking risk-sensitive index. (English summary) **2004f:93056**
López García, José Luis *see* **Ferreira, Chelo et al.**
López-Martínez, Raquiel R. *see* **Hernández-Lerma, Onésimo et al.**, 2004c:90085
Lu, Chuanlai *see* **Liu, Kun Hui et al.**, 2004i:49039
Luo, Cheng-Xin (*with* Feng, En Min) Stochastic differential games and generalized Riccati equations. (English summary) **2004i:91037**
MacDonald, Gordon J. F. *see* **Ermol′ev, Yu. M. et al.**, 2004c:91063
Mahmudov, Nazim I. (*with* Zorlu, S.) Controllability of non-linear stochastic systems. (English summary) **2004b:93017**
Maizenberg, T. L. *see* **Kolmanovsky, I. V.**, 2004e:49037
Majumdar, Mukul (*with* Rotar, Vladimir) Some general results on equilibrium prices in large random exchange economies. (English summary) **2004b:91124**
Mandelbaum, Avi *see* **Atar, Rami et al.**, 2004k:90022
Marcus, Steven I. *see* **Chang, Hyeong Soo et al.**, 2004b:90139
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Welschenbach, Michael ★ Cryptography in C and C++. (English summary) **2004e:94036**
Wigderson, Avi On the work of Madhu Sudan. (English summary) **2004e:01056**
(Yashchenko, V. V.) *see* **Cryptography: an introduction**, **2004c:94105**
(Zubov, A.) *see* **Cryptography: an introduction**, **2004c:94105**
(Zyazin, A.) *see* **Cryptography: an introduction**, **2004c:94105**

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94–02 Research exposition (monographs, survey articles)

Barg, Alexander Extremal problems of coding theory. (English summary) **2004f:94001**
Milman, Andrew S. ★ Mathematical principles of remote sensing: making inferences from noisy data. **2004k:94001**
Zayed, Ahmed I. A prelude to sampling, wavelets, and tomography. (English summary)

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Augot, Daniel Les travaux de Madhu Sudan sur les codes correcteurs d'erreurs. (French summary) [The works of Madhu Sudan on error-correcting codes] **2004i:01018**
Barcelos, C. A. Z. Image restoration and analysis using partial differential equations. (Portuguese. English and Portuguese summaries)
Blackburn, Simon R. Combinatorial schemes for protecting digital content. (English summary) **2004h:94040**
Blu, Thierry *see* **Unser, Michael**, **2004a:42054**
Brandt, Howard E. Inconclusive rate with a positive operator valued measure. (English summary) **2004a:81047**
Butzer, Paul L. (*with* Nasri-Roudsari, G.) Kramer's sampling theorem in signal analysis and its role in mathematics. (*see* **2004j:94002**)
Canteaut, Anne (*with* Charpin, Pascale; Videau, Marion) Cryptanalysis of block ciphers and weight divisibility of some binary codes. (English summary)
Chan, Tony F. C. (*with* Shen, Jianhong) Bayesian inpainting based on geometric image models. (English summary) (*see* **2004j:65009**)
— (*with* Shen, Jianhong) On the role of the BV image model in image restoration. (English summary) **2004h:94005**
Charpin, Pascale *see* **Canteaut, Anne et al.**
Chu, Wai C. ★ Speech coding algorithms. **2004e:94001**
Cortellini, Ennio Finite fields and cryptology. (English summary)
Dawson, Edward (*with* Simpson, Leonie) Analysis and design issues for synchronous stream ciphers. (English summary) **2004c:94083**
Diaz, Alvaro H. *see* **Foschini, Gerard J.**, (**2004h:94001**)
Eldar, Yonina C. Sampling without input constraints: consistent reconstruction in arbitrary spaces. (English summary)
Feng, Ke Qin Quantum error-correcting codes. (English summary) **2004g:94107**
Fischlin, Marc (*with* Fischlin, Roger) The representation problem based on factoring. (English summary) **2004m:94048**
Fischlin, Roger *see* **Fischlin, Marc**, **2004m:94048**
Foschini, Gerard J. (*with* Diaz, Alvaro H.) Dirty paper coding: perturbing off the infinite dimensional lattice limit. (English summary) (*see* **2004h:94001**)
— (*with* Sellathurai, Mathini) A spacetime architectural superstructure enabling efficient multiple antenna communication. (English summary) (*see* **2004h:94001**)
Gilbert, Gerald (*with* Hamrick, Michael) Secrecy, computational loads and rates in practical quantum cryptography. (English summary) **2004a:94041**
Giri, R. D. (*with* Sarda, K. L.) Complete codes. (English summary)
Goldsmith, Andrea *see* **Jindal, Nihar et al.**, (**2004h:94001**)
Goldwasser, Shafi *see* **Micciancio, Daniele**, **2004m:94067**
Haluška, Ján ★ The mathematical theory of tone systems. **2004j:00005**
Hamrick, Michael *see* **Gilbert, Gerald**, **2004a:94041**
Helleseth, Tor Sequences with good correlations and some open problems. (English summary) **2004g:94038**
Jafar, Syed *see* **Jindal, Nihar et al.**, (**2004h:94001**)
Jindal, Nihar (*with* Vishwanath, Sriram; Jafar, Syed; Goldsmith, Andrea) Duality, dirty paper coding, and capacity for multiuser wireless channels. (English summary) (*see* **2004h:94001**)
Kiayias, Aggelos (*with* Yung, Moti) Polynomial reconstruction based cryptography (a short survey). (English summary) (*see* **2004k:94066**)
Larsson, Erik G. (*with* Stoica, Petre) ★ Space-time block coding for wireless communications. **2004f:94003**
Lenstra, Arjen K. Computational methods in public key cryptology. (English summary) **2004g:94069**
Martin, William J. A physics-free introduction to quantum error correcting codes. (English summary) **2004m:94109**
Massey, James L. Some applications of code duality in cryptography. **2004k:94057**
Matsumoto, Tsutomu Detecting and revoking compromised keys. (English summary) **2004c:94093**
Micciancio, Daniele (*with* Goldwasser, Shafi) ★ Complexity of lattice problems. **2004m:94067**
Munuera Gómez, Carlos Error-correcting codes (or How many questions are needed to know a number). (Spanish)
Nasri-Roudsari, G. *see* **Butzer, Paul L.**, (**2004j:94002**)
Pei, Dingyi Authentication schemes. (English summary) **2004g:94072**
Pointcheval, David Practical security in public-key cryptography. (English summary) **2004c:94098**
Poor, H. Vincent Dynamic programming in digital communications: Viterbi decoding to turbo multiuser detection. (English summary) **2004c:94115**
Sarda, K. L. *see* **Giri, R. D.**
Seberry, Jennifer *see* **Song, Beomsik et al.**, **2004c:94100**
Sellathurai, Mathini *see* **Foschini, Gerard J.**, (**2004h:94001**)
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Shparlinski, Igor E. Exponential sums in coding theory, cryptology and algorithms. **2004g:11112**
Silverman, Joseph H. Lattices, cryptography, and the NTRU public key cryptosystem. (English summary) (*see* **2004m:11002**)
Simpson, Leonie *see* **Dawson, Edward**, **2004c:94083**
Song, Beomsik (*with* Wang, Huaxiong; Seberry, Jennifer) A new cryptanalytic method using the distribution characteristics of substitution distances. (English summary) **2004c:94100**
Stoica, Petre *see* **Larsson, Erik G.**, **2004f:94003**
(Sudan, Madhu) *see* **Augot, Daniel**, **2004i:01018**
Unser, Michael (*with* Blu, Thierry) Wavelet theory demystified. (English summary) **2004a:42054**
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Wagstaff, Samuel S., Jr. ★ Cryptanalysis of number theoretic ciphers. **2004f:11144**
Wang, Huaxiong *see* **Song, Beomsik et al.**, **2004c:94100**
Xing, Chaoping Introduction to algebraic geometry codes. (English summary) **2004d:94056**
Yan, Song Y. Computing prime factorization and discrete logarithms: from index calculus to xedni calculus. (English summary) **2004g:94063**
Yang, Yi Xian ★ Theory and applications of higher-dimensional Hadamard matrices. **2004b:15001**
Yung, Moti *see* **Kiayias, Aggelos**, (**2004k:94066**)

94–03 Historical (must also be assigned at least one classification number from Section 01)

Aleksander, Igor Understanding information, bit by bit. Shannon's equations. (*see* **2004g:00013**)

94–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 94–04

Brambilla, Angelo (*with* Storti-Gajani, Giancarlo) Frequency warping in time-domain circuit simulation. (English summary)
Storti-Gajani, Giancarlo *see* **Brambilla, Angelo**

94–06 Proceedings, conferences, collections, etc.

(Bergadano, Francesco) *see* **Cryptology and network security**
(Blackledge, Jonathan M.) *see* **Image processing: mathematical methods and applications**, **2004j:94002**

(Caire, Giuseppe) *see* **Special Issue: Space-time transmission, reception, coding and signal processing**
(Carlet, Claude) *see* **Workshop: Coding and Cryptography**
(Corinthios, Michael J.) *see* **Digital signal processing and control**
(Falkowski, Bogdan J.) *see* **Spectral techniques and decision diagrams**
(Foschini, Gerard J.) *see* **Multiantenna channels: capacity, coding and signal processing, 2004h:94001**
(Fossorier, Marc) *see* **Applied algebra, algebraic algorithms and error-correcting codes, 2004j:94001**
(Hassibi, Babak) *see* **Special Issue: Space-time transmission, reception, coding and signal processing**
(Hochwald, Bertrand M.) *see* **Special Issue: Space-time transmission, reception, coding and signal processing**
(Hoholdt, Tom) *see* **Applied algebra, algebraic algorithms and error-correcting codes, 2004j:94001**
(Li, Chun-hung) *see* **Wavelet analysis and its applications, 2004j:94003**
(Maragos, Petros) *see* **Digital signal processing and control**
(Marzetta, Thomas L.) *see* **Special Issue: Space-time transmission, reception, coding and signal processing**
(Poli, Alain) *see* **Applied algebra, algebraic algorithms and error-correcting codes, 2004j:94001**
(Tang, Yuan Yan[1]) *see* **Wavelet analysis and its applications, 2004j:94003**
(Tzafestas, Spyros) *see* **Digital signal processing and control**
(Verdú, Sergio) *see* **Multiantenna channels: capacity, coding and signal processing, 2004h:94001**
(Wickerhauser, Mladen Victor) *see* **Wavelet analysis and its applications, 2004j:94003**
(Wu, Chuan-Kun) *see* **Cryptology and network security**
(Yuen, Pong C.) *see* **Wavelet analysis and its applications, 2004j:94003**

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Applied algebra, algebraic algorithms and error-correcting codes ★ Applied algebra, algebraic algorithms and error-correcting codes. **2004j:94001**
Cranfield ★ Image processing: mathematical methods and applications. **2004j:94002**
Cryptology and network security ★ Cryptology and network security.
Digital signal processing and control ★ Digital signal processing and control.
Hong Kong ★ Wavelet analysis and its applications. **2004j:94003**
Image processing: mathematical methods and applications ★ Image processing: mathematical methods and applications. **2004j:94002**
Lecture Notes in Computer Science ★ Wavelet analysis and its applications. **2004j:94003**
— ★ Applied algebra, algebraic algorithms and error-correcting codes. **2004j:94001**
Multiantenna channels: capacity, coding and signal processing ★ Multiantenna channels: capacity, coding and signal processing. **2004h:94001**
Paris ★ International Workshop on Coding and Cryptography (WCC 2001).
Piscataway, NJ ★ Multiantenna channels: capacity, coding and signal processing. **2004h:94001**
San Francisco, CA ★ Cryptology and network security.
Special Issue:
  Space-time transmission, reception, coding and signal processing ★ Special issue on space-time transmission, reception, coding and signal processing.
Spectral techniques and decision diagrams ★ Spectral techniques and decision diagrams.
Toulouse ★ Applied algebra, algebraic algorithms and error-correcting codes. **2004j:94001**
Wavelet analysis and its applications ★ Wavelet analysis and its applications. **2004j:94003**
Workshop:
  Coding and Cryptography ★ International Workshop on Coding and Cryptography (WCC 2001).
  Signal Processing for Wireless Transmission ★ Multiantenna channels: capacity, coding and signal processing. **2004h:94001**

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(di Bernardo, Mario) *see* **Special Issue: Switching and systems**
(Choie, YoungJu) *see* **Workshop: Cryptography**
(Chung, Henry Shu-Hung) *see* **Special Issue: Switching and systems**
(Debnath, Lokenath) *see* **Wavelets and signal processing, 2004c:00012**
Ding, Cun Sheng (*with* Xing, Chaoping) Guest editors' preface: Special issue on cryptography and coding theory [Festschrift for Harald Niederreiter].
(Feichtinger, Hans Georg) *see* **Advances in Gabor analysis, 2004e:42003**
(Frey, Gerhard) *see* **Workshop: Cryptography**
(Greven, Andreas) *see* **Entropy, 2004j:00006**
(Keller, Gerhard) *see* **Entropy, 2004j:00006**
(Mullen, Gary L.) *see* **Finite fields with applications to coding theory, cryptography and related areas, 2004c:11003**
(Niederreiter, Harald) *see* **Ding, Cun Sheng**
(Preneel, Bart) *see* **Topics in cryptology—CT-RSA 2002, 2004j:94027**
(Stichtenoth, Henning) *see* **Finite fields with applications to coding theory, cryptography and related areas, 2004c:11003**
(Strohmer, Thomas) *see* **Advances in Gabor analysis, 2004e:42003**
(Tapia-Recillas, Horacio) *see* **Finite fields with applications to coding theory, cryptography and related areas, 2004c:11003**
(Tse, Chi K.) *see* **Special Issue: Switching and systems**
(Vaudenay, Serge) *see* **Selected areas in cryptography, 2004k:94066**
(Warnecke, Gerald G.) *see* **Entropy, 2004j:00006**
Xing, Chaoping *see* **Ding, Cun Sheng**
(Youssef, Amr M.) *see* **Selected areas in cryptography, 2004k:94066**
(Yung, Moti) *see* **Advances in cryptology—CRYPTO 2002, 2004k:94065**

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Advances in cryptology—CRYPTO 2002 ★ Advances in cryptology—CRYPTO 2002. **2004k:94065**
Advances in Gabor analysis ★ Advances in Gabor analysis. **2004e:42003**
Conference:
  Finite Fields and Applications ★ Finite fields with applications to coding theory, cryptography and related areas. **2004c:11003**
Entropy ★ Entropy. **2004j:00006**
Finite fields with applications to coding theory, cryptography and related areas ★ Finite fields with applications to coding theory, cryptography and related areas. **2004c:11003**
Lecture Notes in Computer Science ★ Selected areas in cryptography. **2004k:94066**
— ★ Topics in cryptology—CT-RSA 2002. **2004j:94027**
— ★ Advances in cryptology—CRYPTO 2002. **2004k:94065**
Oaxaca ★ Finite fields with applications to coding theory, cryptography and related areas. **2004c:11003**
Pohang ★ The 2000 Com^{2}MaC Workshop on Cryptography.
San Jose, CA ★ Topics in cryptology—CT-RSA 2002. **2004j:94027**
Santa Barbara, CA ★ Advances in cryptology—CRYPTO 2002. **2004k:94065**
Selected areas in cryptography ★ Selected areas in cryptography. **2004k:94066**
Special Issue:
  Switching and systems ★ Special issue on switching and systems.
Topics in cryptology—CT-RSA 2002 ★ Topics in cryptology—CT-RSA 2002. **2004j:94027**
Toronto, ON ★ Selected areas in cryptography. **2004k:94066**
Wavelets and signal processing ★ Wavelets and signal processing. **2004c:00012**
Workshop:
  Cryptography ★ The 2000 Com^{2}MaC Workshop on Cryptography.

94Axx Communication, information

Items with secondary classifications in 94Axx

Barg, Alexander Extremal problems of coding theory. (English summary) **2004f:94001**

94A05 Communication theory [see also 60G35, 90B18]

Aazhang, Behnaam *see* **Borran, Mohammad Jaber et al.**
Allaria, E. *see* **Baptista, Murilo S. et al.**
Alouini, Mohamed-Slim *see* **Kang, Ming, 2004c:94004**
Altunbasak, Yucel *see* **Bahceci, Israfil et al.**
Arechi, F. T. *see* **Baptista, Murilo S. et al.**
Bahceci, Israfil (*with* Duman, Tolga M.; Altunbasak, Yucel) Antenna selection for multiple-antenna transmission systems: performance analysis and code construction. (English summary)
Baptista, Murilo S. (*with* Boccaletti, Stefano; Allaria, E.; Meucci, R.; Arechi, F. T.) Controlling transient dynamics to communicate with homoclinic chaos. (English summary)
Beaulieu, Norman C. *see* **Damen, Mohamed Oussama et al.**
Belfiore, Jean-Claude *see* **Damen, Mohamed Oussama et al.**
Berenguer, Inaki (*with* Wang, Xiaodong[2]) Space-time coding and signal processing for MIMO communications. (English summary)
Besson, Olivier (*with* Stoica, Petre) On parameter estimation of MIMO flat-fading channels with frequency offsets. (English summary) **2004c:94002**
Biglieri, Ezio (*with* Nordio, Alessandro; Taricco, Giorgio) Space-time coding with iterative receiver interfaces. (English summary) (*see* **2004h:94001**)
Boccaletti, Stefano *see* **Baptista, Murilo S. et al.**
Bölcskei, Helmut Orthogonal frequency division multiplexing based on offset QAM. (English summary) (*see* **2004e:42003**)
Bollt, Erik M. Review of chaos communication by feedback control of symbolic dynamics. (English summary) **2004d:94001**
Borran, Mohammad Jaber (*with* Sabharwal, Ashutosh; Aazhang, Behnaam) On design criteria and construction of noncoherent space-time constellations. (English summary)
Cai, Ning *see* **Li, Shuo-Yen Robert et al., 2004d:94003**
Caire, Giuseppe (*with* Tuninetti, Daniela; Verdú, Sergio) Suboptimality of TDMA in the low-power regime. (English summary)
Cao, Yuan Da *see* **Zhu, Lie Huang**
Chen, Guo Liang[2] *see* **Zhou, FengFeng et al.**
Cheong, Kai Y. (*with* Lau, Francis C. M.; Tse, Chi K.) Permutation-based M-ary chaotic-sequence spread-spectrum communication systems. (English summary)
— *see also* **Lau, Francis C. M. et al.**
Chizhik, Dmitry Slowing the time-fluctuating MIMO channel. (English summary) (*see* **2004h:94001**)
Choo, Hyunseung *see* **Chung, Daewoo et al., 2004i:94002**
Chow, Tommy W. S. (*with* Wang, Bao-Yun; Ng, K. T.) Linear prediction based multipath channel identification algorithm. (English summary)
— *see also* **Wang, Bao-Yun et al.**
Chu, Wai C. ★ Speech coding algorithms. **2004e:94001**
Chung, Daewoo (*with* Choo, Hyunseung; Youn, Hee Yong; Yoo, Seong-Moo) Efficient location traffic management with multiple virtual layers. (English summary) **2004i:94002**
Comaniciu, Cristina (*with* Poor, H. Vincent) Jointly optimal power and admission control for delay sensitive traffic in CDMA networks with LMMSE receivers. (English summary) **2004g:94002**
Comte, J. C. (*with* Morfu, S.) Stochastic resonance: another way to retrieve subthreshold digital data. (English summary) **2004c:94003**
Dabeer, Onkar (*with* Masry, Elias) Convergence analysis of the constant modulus algorithm. (English summary) **2004h:94002**
Dai, Huaiyu (*with* Poor, H. Vincent) Iterative space-time processing for multiuser detection in multipath CDMA channels. (English summary) **2004b:94001**
Damen, Mohamed Oussama (*with* Beaulieu, Norman C.; Belfiore, Jean-Claude) Bandwidth-efficient linear modulations for multiple-antenna transmission. (English summary)
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Dimić, Goran (*with* Sidiropoulos, Nicholas D.; Tassiulas, Leandros) Wireless networks with retransmission diversity access mechanisms: stable throughput and delay properties. (English summary) **2004g:94003**
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Fitz, Michael P. *see* **Liu, Youjian et al.**, **2004c:94005**
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— (*with* Sellathurai, Mathini) A spacetime architectural superstructure enabling efficient multiple antenna communication. (English summary) (*see* **2004h:94001**)
Fujisaki, Hiroshi[1] *see* **Kohda, Tohru**
Gaber, Iris (*with* Mansour, Yishay) Centralized broadcast in multihop radio networks. (English summary) **2004b:94002**
Gastpar, Michael (*with* Rimoldi, Bixio; Vetterli, Martin) To code, or not to code: lossy source-channel communication revisited. (English summary) **2004f:94002**
Gesbert, David Robust linear MIMO receivers: a minimum error-rate approach. (English summary)
Giannakis, Georgios B. *see* **Wang, Zhengdao**, **2004b:94004** *and* **Leus, Geert et al.**
Goldsmith, Andrea *see* **Jindal, Nihar et al.**
Gore, Dhananjay A. *see* **Gorokhov, Alexei Y. et al.**
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Hou, Jilei (*with* Siegel, Paul H.; Milstein, Laurence B.; Pfister, Henry D.) Capacity-approaching bandwidth-efficient coded modulation schemes based on low-density parity-check codes. (English summary)
Huang, Huang-Ming (*with* Yang, Chang-Biau; Tseng, Kuo-Tsung) Broadcasting on uni-directional hypercubes and its applications. (English summary) **2004b:94003**
Irving, A. D. (*with* Dewson, T.) Volterra functional secure communication systems. (English summary) **2004h:94003**
Jindal, Nihar (*with* Vishwanath, Sriram; Goldsmith, Andrea) Duality, dirty paper coding, and capacity for multiuser wireless channels. (English summary)
Kabamba, Pierre T. (*with* Meerkov, Semyon M.; Tang, Choon Yik) Control and adaptation of TDMA in wireless networks. (English summary)
Kalouptsidis, Nicholas (*with* Koukoulas, Panos; Mathews, V. John) Blind identification of bilinear systems. (English summary) **2004d:94002**
Kang, Ming (*with* Alouini, Mohamed-Slim) Hotelling's generalized distribution and performance of 2D-RAKE receivers. (English summary) **2004c:94004**
Kohda, Tohru (*with* Fujisaki, Hiroshi[1]) Pursley's aperiodic cross-correlation functions revisited. (English summary)
Koukoulas, Panos *see* **Kalouptsidis, Nicholas et al.**, **2004d:94002**
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Kuroyanagi, Noriyoshi *see* **Matsufuji, Shinya et al.**, (**2004i:00008**)
Larsson, Erik G. (*with* Stoica, Petre) ★ Space-time block coding for wireless communications. **2004f:94003**
Lau, Francis C. M. (*with* Cheong, Kai Y.; Tse, Chi K.) Permutation-based DCSK and multiple-access DCSK systems. (English summary)
— *see also* **Cheong, Kai Y. et al.**
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Leung, Kin Kwong *see* **Sung, Chi Wan**
Leus, Geert (*with* Zhou, Shengli; Giannakis, Georgios B.) Orthogonal multiple access over time- and frequency-selective channels. (English summary)
Li, Ming Qi (*with* Peng, Qi Cong; Zhong, Shou Ming) The PSD of the wavelet-packet modulation. (English summary) (*see* **2004j:94003**)
Li, Shuo-Yen Robert (*with* Yeung, Raymond W.; Cai, Ning) Linear network coding. (English summary) **2004d:94003**
Liang, Xue-Bin (*with* Xia, Xiang-Gen) On the nonexistence of rate-one generalized complex orthogonal designs. (English summary) **2004m:94001**
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Mannino, Carlo (*with* Sassano, Antonio) An enumerative algorithm for the frequency assignment problem. (English summary) **2004f:94004**
Mansour, Yishay *see* **Gaber, Iris**, **2004b:94002**
Manton, Jonathan H. (*with* Neumann, Walter D.) Totally blind channel identification by exploiting guard intervals. (English summary) **2004i:94004**
— Design and analysis of linear precoders under a mean square error criterion. I. Foundations and worst case designs. (English summary) **2004i:94005**
— Design and analysis of linear precoders under a mean square error criterion. II. MMSE designs and conclusions. (English summary) **2004i:94006**
Maric, Ivana (*with* Yates, Roy) Efficient multihop broadcast for wideband systems. (English summary) (*see* **2004h:94001**)
Maričić, Boris (*with* Luo, Zhi-Quan; Davidson, Timothy N.) Blind constant modulus equalization via convex optimization. (English summary) **2004d:94004**
Masry, Elias *see* **Dabeer, Onkar**, **2004h:94002**
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Matsufuji, Shinya (*with* Kuroyanagi, Noriyoshi; Suehiro, Naoki; Fan, Pingzhi) Two types of polyphase sequence sets for quasi-synchronouse CDMA systems. (English summary) (*see* **2004i:00008**)
Mazzini, Gianluca *see* **Setti, Gianluca et al.**, (**2004e:93002**)
McDiarmid, Colin On the span in channel assignment problems: bounds, computing and counting. (English summary) **2004g:94004**
Meerkov, Semyon M. *see* **Kabamba, Pierre T. et al.**
Meucci, R. *see* **Baptista, Murilo S. et al.**
Milstein, Laurence B. *see* **Hou, Jilei et al.**
Miyajima, Teruyuki (*with* Yamanaka, Kazuo) Phasor model with application to multiuser communication.
Molisch, Andreas F. (*with* Win, Moe Z.; Winters, Jack H.) Reduced-complexity transmit/receive-diversity systems. (English summary)
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Neumann, Walter D. *see* **Manton, Jonathan H.**, **2004i:94004**
Ng, K. T. *see* **Chow, Tommy W. S. et al.** *and* **Wang, Bao-Yun et al.**
Nordio, Alessandro *see* **Biglieri, Ezio et al.**, (**2004h:94001**)
Olivares, Stefano (*with* Paris, Matteo G. A.) Binary optical communication in single-mode and entangled quantum noisy channels. (English summary)
Paris, Matteo G. A. *see* **Olivares, Stefano**
Paulraj, Arogyaswami J. *see* **Gorokhov, Alexei Y. et al.**
Peng, Qi Cong *see* **Li, Ming Qi et al.**, (**2004j:94003**)
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Poor, H. Vincent *see* **Dai, Huaiyu**, **2004b:94001** *and* **Comaniciu, Cristina**, **2004g:94002**
Rimoldi, Bixio *see* **Gastpar, Michael et al.**, **2004f:94002**
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Tassiulas, Leandros *see* **Dimić, Goran et al.**, **2004g:94003**
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Xia, Xiang-Gen *see* **Liang, Xue-Bin**, **2004m:94001**
Xu, Yin Long *see* **Zhou, FengFeng et al.**
Yamanaka, Kazuo *see* **Miyajima, Teruyuki**
Yang, Chang-Biau *see* **Huang, Huang-Ming et al.**, **2004b:94003**
Yates, Roy *see* **Maric, Ivana**, (**2004h:94001**)
Ye, Jimin *see* **Zhu, Xiaolong et al.**
Yeung, Raymond W. *see* **Li, Shuo-Yen Robert et al.**, **2004d:94003**
Yoo, Seong-Moo *see* **Chung, Daewoo et al.**, **2004i:94002**
Youn, Hee Yong *see* **Chung, Daewoo et al.**, **2004i:94002**
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Gerstacker, Wolfgang H. *see* **Schober, Robert et al.**

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Knopp, Raymond *see* **Souilmi, Younes, (2004h:94001)**

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Nam, Seung Hoon *see* **Hwang, Chan-Soo et al.**

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Nishio, Shojiro *see* **Hara, Takahiro et al.**

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Ohama, Gan *see* **Lawrance, Anthony J., 2004m:94020**

Palazzo, R., Jr. *see* **da Silva, Eduardo Brandani et al., 2004b:52033**

Panas, A. I. *see* **Dmitriev, A. S. et al., (2004e:37005)**

Pasupathy, Subbarayan *see* **Schober, Robert et al.**

Perrin, Olivier *see* **Guérin, Charles-Antoine et al., 2004e:60147**
Pironio, Stefano Violations of Bell inequalities as lower bounds on the communication cost of nonlocal correlations. (English summary) **2004k:81070**
Plenio, Martin B. *see* **Eisert, Jens, 2004a:81021**
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Resnick, Sidney I. *see* **Guérin, Charles-Antoine et al., 2004e:60147**
Rootzén, H. *see* **Guérin, Charles-Antoine et al., 2004e:60147**
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Schmeink, Michael *see* **Mathar, Rudolf, (2004d:00011)**
Schmeisser, Kyle *see* **Janssen, Jeannette et al., 2004e:05192**
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Silvestri, Riccardo *see* **Clementi, Andrea E. F. et al., 2004d:68006**
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— *see also* **Hwang, Chan-Soo et al.**
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de Veciana, Gustavo *see* **Weber, Steven, 2004d:90008**
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Werner, Reinhard F. *see* **Gregoratti, M., 2004i:81028**
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Xia, Xiang-Gen *see* **Wang, Haiquan, 2004m:94018**
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94A08 Image processing (compression, reconstruction, etc.) [see also 68U10]

Abookasis, David (*with* Rosen, Joseph) Computer-generated holograms of three-dimensional objects synthesized from their multiple angular viewpoints. (English summary)
Achalakul, T. (*with* Wattanapongsakorn, N.) Performance and reliability modeling for a parallel image fusion system. (English summary)
Acton, Scott T. *see* **Yu, Yongjian, 2004c:94029**
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Aguirre, Marcela D. (*with* Barner, Kenneth E.) Multiresolution permutation filter implementations based on acyclic connected graphs. (English summary) **2004d:94005**
Ahammer, H. (*with* De Vaney, T. T. J.; Tritthart, H. A.) How much resolution is enough? Influence of downscaling the pixel resolution of digital images on the generalised dimensions. (English summary)
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Aubert, Gilles *see* **Aujol, Jean-Francois et al.**
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Backer, Eric *see* **Veenman, Cor J. et al., 2004d:94007**
Bao, Guang-Shu *see* **Lin, Jian[2] et al.**
Baqai, Farhan A. (*with* Allebach, Jan P.) Halftoning via direct binary search using analytical and stochastic printer models. (English summary) **2004c:94008**
Baraniuk, Richard G. *see* **Claypoole, Roger L. et al.**
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Barner, Kenneth E. *see* **Aguirre, Marcela D., 2004d:94005**
Barnsley, L. *see* **Barnsley, Michael F., (2004j:94002)**
Barnsley, Michael F. (*with* Barnsley, L.) Fractal image compression. (English summary) (*see* **2004j:94002**)
Barrera, Junior *see* **Hirata, Roberto, Jr. et al., 2004a:94007**
Barrett, Martin L. *see* **Gu, Hao et al.**
Behiry, S. H. (*with* Hashish, H.; Zaki, F. W.) Linear prediction in the wavelet domain. (English summary)
Bellini, Fabio (*with* Salinelli, Ernesto) Independent component analysis and immunization: an exploratory study. (English summary) **2004k:94003**
Bertalmío, Marcelo (*with* Mémoli, Facundo; Cheng, Li-Tien; Sapiro, Guillermo; Osher, Stanley J.) Variational problems and partial differential equations on implicit surfaces: bye bye triangulated surfaces? (English summary)
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Bhattacharjee, Supratik (*with* Sundareshan, Malur K.) Mathematical extrapolation of image spectrum for constraint-set design and set-theoretic superresolution. (English summary) **2004e:94002**
Bian, ZhengZhong *see* **Zhang, HongMei et al.**
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Blanc-Féraud, Laure *see* **Aujol, Jean-Francois et al.**
Blu, Thierry *see* **Liebling, Michael et al., 2004b:94007** *and* **Unser, Michael, 2004g:94011**
Bo, Wurigen *see* **Ren, Haiping et al., 2004c:94025**
Boashash, Boualem *see* **Kasaei, Shohreh et al., 2004e:94005**
Bose, N. K. *see* **Lertrattanapanich, S., 2004c:94020**
Brankov, Jovan G. *see* **Yang, Yong Yi et al., 2004i:94015**
Bruckstein, Alfred M. (*with* Elad, Michael; Kimmel, Ron) Down-scaling for better transform compression. (English summary) **2004h:94004**
Brun, Marcel *see* **Hirata, Roberto, Jr. et al., 2004a:94007**
Brunello, Dania (*with* Calvagno, Giancarlo; Mian, Gian Antonio; Rinaldo, Roberto) Lossless compression of video using temporal information. (English summary) **2004d:94006**
Buhmann, Joachim M. *see* **Hermes, Lothar**
Bull, David R. *see* **Hill, Paul R. et al.**
Calderone, V. *see* **Francomano, E. et al.**
Calvagno, Giancarlo *see* **Brunello, Dania et al., 2004d:94006**
Campisi, Patrizio *see* **Panci, Gianpiero et al.**
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Candès, Emmanuel J. *see* **Starck, Jean-Luc et al., 2004g:94010**
Carasso, Alfred S. The APEX method in image sharpening and the use of low exponent Lévy stable laws. (English summary) **2004a:94002**
Caselles, Vicent *see* **Bertalmío, Marcelo et al., 2004m:94002**
Chan, Raymond H. (*with* Chan, Tony F. C.; Shen, Lixin[2]; Shen, Zuowei) Wavelet deblur-

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Chandran, Sharat (*with* Potty, Ananth K.; Sohoni, Milind) Fast image transforms using Diophantine methods. (English summary) **2004g:94005**

Chellappa, Rama *see* **Moon, Hankyu et al., 2004c:94022** *and* **Liu, Haiying et al.**

Chen, Hu-awei *see* **Li, Wei et al.**

Chen, Jia-zhong *see* **Yu, Sheng-sheng et al.**

Chen, Yun Mei *see* **Vemuri, Baba**

Cheng, Li-Tien *see* **Bertalmio, Marcelo et al.**

Cheong, Loong-Fah *see* **Peh, Chin-Hwee, 2004c:94023**

Cheriet, M. *see* **Remaki, L., 2004f:94009**

Chevreuil, Antoine *see* **Houcke, Sébastien et al., 2004i:94009**

Choo, Kyowoong *see* **Yun, Il Dong et al.**

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Cochoff, Steven M. *see* **Zhu, Yang-Ming, 2004c:94031**

Cohen, Fernand S. *see* **Zhang, Chongzhen, 2004c:94030**

Coifman, Ronald R. *see* **Meyer, François G. et al., 2004e:94006** *and* **Rajpoot, Nasir M. et al.**

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Colonnese, Stefania *see* **Panci, Gianpiero et al.**

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Cosma, Ovidiu The deduction and evaluation of a new colour space for image compression. (English summary)

Cosman, Pamela C. *see* **Schilling, Dirck**

Davis, Geoffrey M. *see* **Claypoole, Roger L. et al.**

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Demaret, Laurent (*with* Iske, Armin) Scattered data coding in digital image compression. (English summary) (*see* **2004j:65005**)

Deriche, Mohamed *see* **Kasaei, Shohreh et al., 2004e:94005**

Deriche, Rachid *see* **Rousson, Mikaël**

Desolneux, Agnès (*with* Ladjal, Saïd; Moisan, Lionel; Morel, Jean-Michel) Dequantizing image orientation. (English summary) **2004c:94010**

De Vaney, T. T. J. *see* **Ahammer, H. et al.**

Dibos, Françoise (*with* Koepfler, Georges; Monasse, Pascal) Total variation minimization for scalar/vector regularization. (English summary)

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Ding, Lixin *see* **Zeng, Sanyou et al., 2004m:94006**

Do, Minh N. (*with* Vetterli, Martin) The finite ridgelet transform for image representation. (English summary) **2004c:94011**

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Donoho, David L. *see* **Starck, Jean-Luc et al., 2004g:94010**

Dougherty, Edward R. Granulometric size density for segmented random-disk models. (English summary) **2004m:94003**

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Duci, Alessandro *see* **Soatto, Stefano et al.**

Dufour, Roger M. (*with* Miller, Eric L.; Galatsanos, Nikolas P.) Template matching based object recognition with unknown geometric parameters. (English summary) **2004c:94012**

Dumitrescu, Sorina (*with* Wu, Xiaolin) Algorithms for optimal multi-resolution quantization. (English summary) **2004m:94004**

Durairaju, Sathya Priya *see* **Kountanis, Dionysios**

Eckhardt, Ulrich Root images of median filters. (English summary) **2004i:94008**

Elad, Michael *see* **Bruckstein, Alfred M. et al., 2004h:94004**

Ell, Todd A. *see* **Moxey, C. Eddie et al.**

Elser, Veit The Mermin fixed point. (English summary) **2004k:94004**

— Random projections and the optimization of an algorithm for phase retrieval. (English summary) **2004f:94006**

Faghih, Farshad (*with* Smith, Michael[1]) Combining spatial and scale-space techniques for edge detection to provide a spatially adaptive wavelet-based noise filtering algorithm. (English summary) **2004a:94004**

Faugeras, Olivier (*with* Gomes, Jose; Keriven, Renaud) Computational stereo: a variational method. (English summary)

Figueiredo, Mário A. T. (*with* Nowak, Robert D.) An EM algorithm for wavelet-based image restoration. (English summary)

Florack, Luc M. J. *see* **Kuijper, Arjan, 2004i:94010**

Flusser, Jan *see* **Šroubek, Filip**

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Francomano, E. (*with* Tortorici, A.; Calderone, V.) Regularization of optical flow with M-band wavelet transform. (English summary)

Galatsanos, Nikolas P. *see* **Dufour, Roger M. et al., 2004c:94012**

Gao, Chao[2] (*with* Guo, Yong Cai; Liu, Guo Xiang[1]) Blind image restoration based on frequency domain conjugate gradient algorithm. (Chinese. English and Chinese summaries)

Geng, Frank *see* **Reichenbach, Stephen E., 2004i:94013**

Geng, Guo Hua *see* **Lü, Ke et al.**

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Gerwe, David R. (*with* Hill, Jennifer Lane; Idell, Paul S.) Cramér-Rao analysis of orientation estimation: influence of target model uncertainties. (English summary) **2004c:94014**

Geusebroek, Jan-Mark (*with* Smeulders, Arnold W. M.; van de Weijer, Joost) Fast anisotropic Gauss filtering. (English summary)

Gilboa, Guy (*with* Sochen, Nir A.; Zeevi, Yehoshua Y.) Image sharpening by flows based on triple well potentials. (English summary)

Giurcăneanu, Ciprian Doru (*with* Tăbuş, Ioan) Optimal coding of quantized Laplacian sources for predictive image compression. (English summary) **2004a:94005**

Gluhovsky, Ilya (*with* Melnik, Vladimir; Shmulevich, Ilya) Markov random field modeling in median pyramidal transform domain for denoising applications. (English summary) **2004a:94006**

Gomes, Jose *see* **Faugeras, Olivier et al.**

Gorelik, V. A. (*with* Kulyasov, S. M.) Locally unbiased filtering of images. (Russian. Russian summary)

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Grigoryan, A. M. Method of paired transforms for reconstruction of images from projections: discrete model. (English summary) **2004g:94006**

Gröller, Eduard *see* **Hauser, Helwig et al., (2004j:65006)**

Gu, Hao (*with* Hong, Don; Barrett, Martin L.) Wavelet image compressor—MinImage. (English summary)

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Guo, Yong Cai *see* **Gao, Chao[2] et al.**

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Hamzaoui, Raouf (*with* Saupe, Dietmar) Fractal image compression with fast local search. (English summary) **2004c:94015**

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Hashish, H. *see* **Behiry, S. H. et al.**

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Hawwar, Yousef (*with* Reza, Ali) Spatially adaptive multiplicative noise image denoising technique. (English summary) **2004b:94006**

He, Chuanjiang *see* **Huang, Xi Yue et al.**

He, Xiao-cheng *see* **Yu, Sheng-sheng et al.**

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Hemami, Sheila S. *see* **Deever, Aaron T.**

Hermes, Lothar (*with* Buhmann, Joachim M.) A minimum entropy approach to adaptive image polygonization. (English summary)

Herron, M. G. *see* **Scotney, B. W. et al., (2004j:00012)**

Hill, Jennifer Lane *see* **Gerwe, David R. et al., 2004c:94014**

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Hinterberger, Walter (*with* Hintermüller, Michael; Kunisch, Karl; von Oehsen, Markus; Scherzer, Otmar) Tube methods for BV regularization. (English summary) **2004j:94004**

Hintermüller, Michael *see* **Hinterberger, Walter et al., 2004j:94004**

Hirata, Roberto, Jr. (*with* Brun, Marcel; Barrera, Junior; Dougherty, Edward R.) Multiresolution design of aperture operators. (English summary) **2004a:94007**

Hirose, Akira *see* **Kawata, Sotaro**

Ho, K. L. *see* **Fong, W. C. et al., 2004c:94013**

Hong, Don *see* **Gu, Hao et al.**

Hopcraft, K. I. *see* **Appel, R. K. et al., (2004j:94002)**

Horiguchi, Tsuyoshi *see* **Tanaka, Kazuyuki[2] et al.**

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Houcke, Sébastien (*with* Chevreuil, Antoine; Loubaton, Philippe) Blind equalization—case of an unknown symbol period. (English summary) **2004i:94009**

Hu, Jianying *see* **Mojsilović, Aleksandra et al., 2004c:94021**

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Idell, Paul S. *see* **Gerwe, David R. et al., 2004c:94014**

Inoue, Jun-ichi (*with* Tanaka, Kazuyuki[2]) Mean field theory of EM algorithm for Bayesian grey scale image restoration. (English summary)

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Iske, Armin *see* **Demaret, Laurent, (2004j:65005)**

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Jin, Hailin *see* **Yezzi, Anthony, Jr. et al.**
Jogan, Matjaž (*with* Žagar, Emil; Leonardis, Aleš) Karhunen-Loéve expansion of a set of rotated templates. (English summary)
Johnson, Kisha L. *see* **Cole-Rhodes, Arlene A. et al.**
Kai, Kouji *see* **Yoshitomi, Yasunari et al.**
Kalifa, Jérôme (*with* Mallat, Stéphane G.; Rougé, Bernard) Deconvolution by thresholding in mirror wavelet bases. (English summary) **2004f:94007**
Kämpke, Thomas Efficient quantization algorithms for discrete functions. (English summary) **2004e:94004**
Kang, Li-shan *see* **Zeng, Sanyou et al., 2004m:94006**
Karakos, Damianos (*with* Papamarcou, Adrian) A relationship between quantization and watermarking rates in the presence of additive Gaussian attacks. (English summary)
Kärkkäinen, Tommi (*with* Majava, Kirsi) SAC-methods for image restoration. (English summary) (*see* **2004i:00008**)
Kasaei, Shohreh (*with* Deriche, Mohamed; Boashash, Boualem) A novel fingerprint image compression technique using wavelets packets and pyramid lattice vector quantization. (English summary) **2004e:94005**
Katsaggelos, Aggelos K. *see* **Schuster, Guido M. et al.**
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Khrennikov, A. Yu. *see* **Kotovich, N. V.**
Kikuchi, Hisakazu *see* **Muramatsu, Shogo et al.**
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— *see also* **Bruckstein, Alfred M. et al., 2004h:94004**
Koepfler, Georges *see* **Dibos, Françoise et al.**
Kokaram, Anil Practical, unified, motion and missing data treatment in degraded video. (English summary)
Kontoyiannis, Ioannis Pattern matching and lossy data compression on random fields. (English summary) **2004f:94008**
Kotovich, N. V. (*with* Khrennikov, A. Yu.) Representation and compression of images by means of an m-adic coordinate system. (Russian)
Kountanis, Dionysios (*with* Durairaju, Sathya Priya) Image compression using rectangular decomposition. (English summary)
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Krim, Hamid *see* **Unal, Gozde et al., 2004c:94027**
Krzyżak, Adam (*with* Rafajłowicz, Ewaryst; Skubalska-Rafajłowicz, Ewa) Clipped median and space-filling curves in image filtering. (English summary) **2004c:94017**
Kubo, Masaaki (*with* Aghbari, Zaher; Oh, Kun Seok; Makinouchi, Akifumi) A wavelet-based image indexing, clustering, and retrieval technique based on edge feature. (English summary) (*see* **2004j:94003**)
Kuijper, Arjan (*with* Florack, Luc M. J.) The hierarchical structure of images. (English summary) **2004i:94010**
Kulyasov, S. M. *see* **Gorelik, V. A.**
Kunisch, Karl *see* **Hinterberger, Walter et al., 2004j:94004**
Ladjal, Saïd *see* **Desolneux, Agnès et al., 2004c:94010**
Lai, Cheung-Ming (*with* Lam, Kin-Man; Siu, Wan-Chi) A fast fractal image coding based on kick-out and zero contrast conditions. (English summary)
Lakhani, Gopal Modified JPEG Huffman coding. (English summary) **2004c:94018**
Lam, Kin-Man *see* **Lai, Cheung-Ming et al.**
Lee, Chul Soo (*with* Park, HyunWook) Near-lossless/lossless compression of error-diffused images using a two-pass approach. (English summary) **2004c:94019**
Lee, Chulhee *see* **Lim, Jeongeun et al.**
Lee, Richard A. *see* **Razaz, M. et al., (2004j:94002)** *and* **(2004j:94002)**
Lee, Sang Uk *see* **Yun, Il Dong et al.**
LeMoigne, Jacqueline *see* **Cole-Rhodes, Arlene A. et al.**
Leonardis, Aleš *see* **Jogan, Matjaž et al.**
Lertrattanapanich, S. (*with* Bose, N. K.) High resolution image formation from low resolution frames using Delaunay triangulation. (English summary) **2004c:94020**
Lezeau, P. A. *see* **Blackledge, Jonathan M., (2004j:94002)**
Li, Ching-Chung *see* **Kim, Wonkoo, (2004j:94003)**
Li, Lida *see* **Wang, Qian[5] et al.**
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Li, Xiaohuan *see* **Schuster, Guido M. et al.**
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Liao, Hong-Yuan Mark *see* **Shih, Arthur Chun-Chieh et al.**
Liebling, Michael (*with* Blu, Thierry; Unser, Michael) Fresnelets: new multiresolution wavelet bases for digital holography. (English summary) **2004b:94007**
Lim, Jeongeun (*with* Lee, Chulhee; Sohn, Kwanghoon) Motion/disparity-compensated multiview sequence coding. (English summary)
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Lin, Fu Rong (*with* Ng, Michael K.) Super-resolution image reconstruction with estimation of low-resolution frames. (English summary)
Lin, Jian[2] (*with* Bao, Guang-Shu; Xiao, Zhi Qiang; Lin, Qiang) A segmentation approach to texture images: split-and-expand algorithm. (Chinese. English and Chinese summaries)
Lin, Qiang *see* **Lin, Jian[2] et al.**
Ling, Yi[1] *see* **Lin, En-Bing, 2004i:94011**
Liu, Bin[2] (*with* Peng, Jiaxiong) Image fusion method based on short support symmetric non-separable wavelet. (English summary)
Liu, Guo Xiang[1] *see* **Gao, Chao[2] et al.**
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Liu, Li Bo Algorithm using integral wavelet transform for lossless image compression. (Chinese. English and Chinese summaries)
Liu, Xian[2] On algebraic structures of spatial ordering and location code. (English summary) **2004b:94008**
Loubaton, Philippe *see* **Houcke, Sébastien et al., 2004i:94009**
Lu, Chun-Shien *see* **Shih, Arthur Chun-Chieh et al.**
Lu, Feng *see* **Guan, Lü Tai, (2004j:94003)**
Lü, Ke (*with* Geng, Guo Hua; Zhou, Ming Quan; Zhao, Hong An) Rapid 3D contour matching based on the Fourier transform. (Chinese. English and Chinese summaries)
Lukac, Rastislav (*with* Smołka, Bogdan) Application of the adaptive center-weighted vector median framework for the enhancement of cDNA microarray images. (English summary)
Luo, Jian *see* **Combettes, Patrick L., 2004c:94009**
Lutscher, Frithjof (*with* McNulty, Jenny; Morris, Joy; Seyffarth, Karen) Stitching images back together.
Ma, Libo *see* **Huang, Xi Yue et al.**
Magnin, Isabelle E. *see* **Robini, Marc C., 2004j:94005**
Majava, Kirsi *see* **Kärkkäinen, Tommi, (2004i:00008)**
Makinouchi, Akifumi *see* **Kubo, Masaaki et al., (2004j:94003)**
Malgouyres, François Minimizing the total variation under a general convex constraint for image restoration. (English summary) **2004b:94009**
Mallat, Stéphane G. *see* **Kalifa, Jérôme et al., 2004f:94007**
Manay, Siddharth (*with* Yezzi, Anthony, Jr.) Anti-geometric diffusion for adaptive thresholding and fast segmentation. (English summary)
Maragos, Petros Morphological global reconstruction and levelings: lattice and PDE approaches. (English summary)
Martin, Ralph R. *see* **Anguh, M. M., (2004j:94002)**
Masnou, Simon *see* **Ambrosio, Luigi, 2004a:94001** *and* **(2004j:35005)**
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Meignen, Sylvain (*with* Perrier, Valérie) Texture segmentation using stable texture features. (English summary) (*see* **2004j:65005**)
Melnik, Vladimir *see* **Gluhovsky, Ilya et al., 2004a:94006**
Mémoli, Facundo *see* **Bertalmio, Marcelo et al.**
Merchant, S. N. *see* **Jain, Pawan**
Meyer, François G. (*with* Averbuch, Amir Z.; Coifman, Ronald R.) Multilayered image representation: application to image compression. (English summary) **2004e:94006**
— *see also* **Rajpoot, Nasir M. et al.**
Mian, Gian Antonio *see* **Brunello, Dania et al., 2004d:94006**
Mikula, Karol Image processing with partial differential equations. (English summary) (*see* **2004d:65006**)
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Miller, Eric L. *see* **Dufour, Roger M. et al., 2004c:94012**
Moisan, Lionel *see* **Desolneux, Agnès et al., 2004c:94010**
Mojsilović, Aleksandra (*with* Hu, Jianying; Soljanin, Emina) Extraction of perceptually important colors and similarity measurement for image matching, retrieval, and analysis. (English summary) **2004c:94021**
Monasse, Pascal *see* **Dibos, Françoise et al.**
Moon, Hankyu (*with* Chellappa, Rama; Rosenfeld, Azriel) Optimal edge-based shape detection. (English summary) **2004c:94022**
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Morato, Laura M. (*with* Siri, Paola) Learning Markov chains in fractal compression of image data. (English summary) **2004k:94007**
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Morel, Jean-Michel *see* **Desolneux, Agnès et al., 2004c:94010**
Morisaki, Yoji (*with* Nishii, Ryuei) Contextual image fusion based on Markov random fields and its applications to geo-spatial image enhancement. (English summary)
Morris, Joy *see* **Lutscher, Frithjof et al.**
Moxey, C. Eddie (*with* Sangwine, Stephen J.; Ell, Todd A.) Hypercomplex correlation techniques for vector images. (English summary)
Muramatsu, Shogo (*with* Ishida, Takuma; Kikuchi, Hisakazu) Invertible deinterlacing with sampling-density preservation: theory and design. (English summary)
Murtagh, Fionn (*with* Starck, Jean-Luc) Wavelets and multiscale transform in astronomical image processing. (English summary) **2004g:94007**
— *see also* **Starck, Jean-Luc et al., 2004g:94010**
Nabil, Tamer *see* **Ismail, I. A.**
Nagel, Werner *see* **Ohser, Joachim et al., 2004i:94012**
Nallanathan, Arumugam *see* **Fong, W. C. et al., 2004c:94013**
Ng, Michael K. *see* **Lin, Fu Rong**
Nishii, Ryuei *see* **Morisaki, Yoji**
Nowak, Robert D. *see* **Figueiredo, Mário A. T.**
von Oehsen, Markus *see* **Hinterberger, Walter et al., 2004j:94004**
Oh, Kun Seok *see* **Kubo, Masaaki et al., (2004j:94003)**
Ohser, Joachim (*with* Nagel, Werner; Schladitz, Katja) The Euler number of discretised sets—surprising results in three dimensions. (English summary) **2004i:94012**
Okada, Masato *see* **Ozeki, Tomoko**
Olver, Peter J. *see* **Georgiou, Tryphon T. et al., (2004k:68008)**

Ong, Seng-Huat *see* **Yap, Pew-Thian et al., 2004k:94009**
Osher, Stanley J. *see* **Tsai, Richard, 2004m:94005**; **Vese, Luminita A.** *and* **Bertalmío, Marcelo et al.**
Özbaşaran, Ersen *see* **Üstündağ, Dursun**
Ozeki, Tomoko (*with* Okada, Masato) Non-monotonic behaviour in relaxation dynamics of image restoration. (English summary)
Panci, Gianpiero (*with* Campisi, Patrizio; Colonnese, Stefania; Scarano, Gaetano) Multichannel blind image deconvolution using the Bussgang algorithm: spatial and multiresolution approaches. (English summary)
Papamarcou, Adrian *see* **Karakos, Damianos**
Papi, Serena *see* **Bacchelli, Silvia**
Paragios, Nikos (*with* Rousson, Mikaël) Shape analysis towards model-based segmentation. (English summary)
Paramesran, Raveendran *see* **Yap, Pew-Thian et al., 2004k:94009**
Park, HyunWook *see* **Lee, Chul Soo, 2004c:94019**
Pece, Arthur E. C. The problem of sparse image coding. (English summary) **2004a:94008**
Pedroche Sánchez, Francisco On some capabilities of the SVD expansion to handle images. (English summary)
Peh, Chin-Hwee (*with* Cheong, Loong-Fah) Synergizing spatial and temporal texture. (English summary) **2004c:94023**
Peng, Jiaxiong *see* **Liu, Bin[2]**
Perrier, Valérie *see* **Meignen, Sylvain, (2004j:65005)**
Ping, Ziliang *see* **Ren, Haiping et al., 2004c:94025**
Plonka, Gerlind (*with* Tasche, Manfred) Invertible integer DCT algorithms. (English summary) **2004g:94008**
Poggi, Giovanni *see* **D'Elia, Ciro et al., 2004i:94007**
Pollak, Ilya Nonlinear diffusions and optimal estimation. (English summary) (*see* **2004k:68008**)
Ponomarev, V. I. *see* **Kravchenko, V. F. et al.**
Portilla, Javier (*with* Strela, Vasily; Wainwright, Martin J.; Simoncelli, Eero P.) Image denoising using scale mixtures of Gaussians in the wavelet domain. (English summary)
Potter, Lee C. *see* **Rajagopal, Ravikiran**
Potty, Ananth K. *see* **Chandran, Sharat et al., 2004g:94005**
Preußer, Tobias *see* **Mikula, Karol et al., (2004c:00011)**
Pun, Chi-Man Efficient and adaptive rotation invariant wavelet transform. (English summary)
Pustovoĭt, V. I. *see* **Kravchenko, V. F. et al.**
Quan, Hui Yun *see* **Wen, Gao Jin et al.**
Rafajłowicz, Ewaryst *see* **Krzyżak, Adam et al., 2004c:94017**
Rajagopal, Ravikiran (*with* Potter, Lee C.) Multivariate MIMO FIR inverses. (English summary)
Rajpoot, Nasir M. (*with* Wilson, Roland G.; Meyer, François G.; Coifman, Ronald R.) Adaptive wavelet packet basis selection for zerotree image coding. (English summary)
Ratakonda, Krishna (*with* Ahuja, Narendra) Lossless image compression with multiscale segmentation. (English summary) **2004c:94024**
Razaz, M. (*with* Lee, Richard A.; Shaw, P. J.) Restoration of 3D real images using projection onto convex sets. (English summary) (*see* **2004j:94002**)
— (*with* Lee, Richard A.) Comparison of iterative deconvolution and Wiener filtering for image restoration. (English summary) (*see* **2004j:94002**)
Reading, N. G. Digital image processing in medicine. (English summary) (*see* **2004j:94002**)
Reichenbach, Stephen E. (*with* Geng, Frank) Two-dimensional cubic convolution. (English summary) **2004i:94013**
Reinders, Marcel J. T. *see* **Veenman, Cor J. et al., 2004d:94007**
Remaki, L. (*with* Cheriet, M.) Numerical schemes of shock filter models for image enhancement and restoration. (English summary) **2004f:94009**
Ren, Haiping (*with* Ping, Ziliang; Bo, Wurigen; Wu, Wenkai; Sheng, Yun Long[1]) Multidistortion-invariant image recognition with radial harmonic Fourier moments. (English summary) **2004c:94025**
Reza, Ali *see* **Hawwar, Yousef, 2004b:94006**
Rinaldo, Roberto *see* **Brunello, Dania et al., 2004d:94006**
Robini, Marc C. (*with* Magnin, Isabelle E.) Stochastic nonlinear image restoration using the wavelet transform. (English summary) **2004j:94005**
Rosen, Joseph *see* **Abookasis, David**
Rosenfeld, Azriel *see* **Moon, Hankyu et al., 2004c:94022** *and* **Liu, Haiying et al.**
Rougé, Bernard *see* **Kalifa, Jérôme et al., 2004f:94007** *and* **Bertalmío, Marcelo et al., 2004m:94002**
Rousson, Mikaël (*with* Deriche, Rachid) Adaptive segmentation of vector valued images. (English summary)
— *see also* **Paragios, Nikos**
Rumpf, Martin *see* **Mikula, Karol et al., (2004c:00011)**
Salinelli, Ernesto *see* **Bellini, Fabio, 2004k:94003**
Sanches-Garsia, Kh. K. *see* **Kravchenko, V. F. et al.**
Sangwine, Stephen J. *see* **Moxey, C. Eddie et al.**
Sapiro, Guillermo *see* **Bertalmío, Marcelo et al.**
Sapounas, D. *see* **Blackledge, Jonathan M., (2004j:94002)**
Sato, Reiji (*with* Shinriki, Masanori) Compression ratio expansion methods for complementary code set compressing a signal to a width of several sub-pulses. (Japanese. English and Japanese summaries)
Saupe, Dietmar (*with* Hamzaoui, Raouf) Complexity reduction methods for fractal image compression. (English summary) (*see* **2004j:94002**)
— *see also* **Hamzaoui, Raouf, 2004c:94015**
Scarano, Gaetano *see* **Panci, Gianpiero et al.**
Scarpa, Giuseppe *see* **D'Elia, Ciro et al., 2004i:94007**
Scherzer, Otmar *see* **Hinterberger, Walter et al., 2004j:94004**
Scheunders, Paul An orthogonal wavelet representation of multivalued images. (English summary) **2004g:94009**
Schilling, Dirck (*with* Cosman, Pamela C.) Preserving step edges in low bit rate progressive image compression. (English summary)
Schladitz, Katja *see* **Ohser, Joachim et al., 2004i:94012**
Schuster, Guido M. (*with* Li, Xiaohuan; Katsaggelos, Aggelos K.) Shape error concealment using Hermite splines. (English summary)
Scotney, B. W. (*with* Coleman, S. A.; Herron, M. G.) Device space design for efficient scale-space edge detection. (English summary) (*see* **2004j:00012**)
Šenk, Vojin *see* **Zeljković, Vesna et al.**
Sethian, James A. A review of level set and fast marching methods for image processing. (English summary) (*see* **2004d:65006**)
Seyffarth, Karen *see* **Lutscher, Frithjof et al.**
Sgallari, Fiorella *see* **Mikula, Karol et al., (2004c:00011)**
Shaw, P. J. *see* **Razaz, M. et al., (2004j:94002)**
Shen, Jianhong *see* **Chan, Tony F. C., 2004a:94003**; **2004h:94005** *and* **(2004j:65009)**
Shen, Lan Sun *see* **Li, Xiao Hua[3]**
Shen, Lixin[2] *see* **Chan, Raymond H. et al., 2004e:94003** *and* **2004f:94005**
Shen, Zuowei *see* **Chan, Raymond H. et al., 2004e:94003** *and* **2004f:94005**
Sheng, Yun Long[1] *see* **Ren, Haiping et al., 2004c:94025**
Shih, Arthur Chun-Chieh (*with* Liao, Hong-Yuan Mark; Lu, Chun-Shien) A new iterated two-band diffusion equation: theory and its application. (English summary)
Shinriki, Masanori *see* **Sato, Reiji**
Shlyakhov, V. V. *see* **Megel', Yu. E.**
Shmulevich, Ilya *see* **Gluhovsky, Ilya et al., 2004a:94006**
Siddiqi, Abul Hasan *see* **Ahmad, M. Kalimuddin**
Sifakis, Eftychis (*with* Tziritas, George) Fast marching techniques for visual grouping & segmentation. (English summary)
Simoncelli, Eero P. *see* **Portilla, Javier et al.**
Siri, Paola *see* **Morato, Laura M., 2004k:94007** *and* **2004k:94008**
Siu, Wan-Chi *see* **Lai, Cheung-Ming et al.**
Skubalska-Rafajłowicz, Ewa *see* **Krzyżak, Adam et al., 2004c:94017**
Smeulders, Arnold W. M. *see* **Geusebroek, Jan-Mark et al.**
Smith, Michael[1] *see* **Faghih, Farshad, 2004a:94004**
Smołka, Bogdan *see* **Lukac, Rastislav**
Soatto, Stefano (*with* Yezzi, Anthony, Jr.; Duci, Alessandro) Region matching and tracking under deformations or occlusions. (English summary)
— *see also* **Yezzi, Anthony, Jr. et al.**
Sochen, Nir A. *see* **Gilboa, Guy et al.**
Sohn, Kwanghoon *see* **Lim, Jeongeun et al.**
Sohoni, Milind *see* **Chandran, Sharat et al., 2004g:94005**
Solé, Andreas F. *see* **Bertalmío, Marcelo et al., 2004m:94002**
Soljanin, Emina *see* **Mojsilović, Aleksandra et al., 2004c:94021**
Somekh, M. G. *see* **Appel, R. K. et al., (2004j:94002)**
Šroubek, Filip (*with* Flusser, Jan) Multichannel blind iterative image restoration. (English summary)
Starck, Jean-Luc (*with* Murtagh, Fionn; Candès, Emmanuel J.; Donoho, David L.) Gray and color image contrast enhancement by the curvelet transform. (English summary) **2004g:94010**
— *see also* **Murtagh, Fionn, 2004g:94007**
Strela, Vasily *see* **Portilla, Javier et al.**
Sundareshan, Malur K. *see* **Bhattacharjee, Supratik, 2004e:94002**
Sweldens, Wim *see* **Claypoole, Roger L. et al.**
Tăbuş, Ioan *see* **Giurcăneanu, Ciprian Doru, 2004a:94005**
Tabuse, Masayoshi *see* **Yoshitomi, Yasunari et al.**
Tan, Chew Lim *see* **Wang, Qian[5] et al.**
Tanaka, Kazuyuki[2] (*with* Hoshi, Norihiro; Horiguchi, Tsuyoshi) Color image compression algorithm using self-organizing feature map. (English summary)
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Tanaka, Toshihisa (*with* Yamashita, Yukihiko) A biorthogonal transform with overlapping and non-overlapping basis functions for image coding. (English summary) **2004b:94010**
Tannenbaum, Allen *see* **Georgiou, Tryphon T. et al., (2004k:68008)** *and* **Haker, Steven, (2004k:68008)**
Tasche, Manfred *see* **Plonka, Gerlind, 2004g:94008**
Terenyuk, Tetyana A. (*with* Verchenko, Andrīĭ P.) Construction and implementation of algorithms for the isolation and recognition of objects based on aerospace photographs. (Ukrainian. English and Ukrainian summaries)
Theußl, Thomas *see* **Hauser, Helwig et al., (2004j:65006)**
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Titterington, D. M. *see* **Tanaka, Kazuyuki[2] et al.**
Tortorici, A. *see* **Francomano, E. et al.**
Tran, Trac D. *see* **Tu, Chengjie, 2004c:94026**
Tritthart, H. A. *see* **Ahammer, H. et al.**
Trpovski, Željen *see* **Zeljković, Vesna et al.**
Tsai, Andy *see* **Yezzi, Anthony, Jr. et al.**
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Tu, Chengjie (*with* Tran, Trac D.) Context-based entropy coding of block transform coefficients for image compression. (English summary) **2004c:94026**
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— Properties of fractal compression and their use within texture mapping. (English summary) (*see* **2004d:28001**)
Twelves, Sue *see* **Kharitonenko, Igor et al., 2004c:94016**
Tziritas, George *see* **Sifakis, Eftychis**
Ueno, Yoshito Wavelets and fractal image compression based on their self-similarity of the space-frequency plane of images. (English summary)
Unal, Gozde (*with* Krim, Hamid; Yezzi, Anthony, Jr.) Stochastic differential equations and geometric flows. (English summary) **2004c:94027**

Unser, Michael (*with* Blu, Thierry) Mathematical properties of the JPEG2000 wavelet filters. (English summary) **2004g:94011**
— *see also* **Liebling, Michael et al., 2004b:94007**
Üstündağ, Dursun (*with* Özbaşaran, Ersen) Recovering images from traveltime data. (English summary)
Van Fleet, Patrick J. Multiwavelets and integer transforms. (English summary) **2004f:94010**
Veenman, Cor J. (*with* Reinders, Marcel J. T.; Backer, Eric) A cellular coevolutionary algorithm for image segmentation. (English summary) **2004d:94007**
Vemuri, Baba (*with* Chen, Yun Mei) Joint image registration and segmentation. (English summary)
Verchenko, Andrīī P. *see* **Terenyuk, Tetyana A.**
Vese, Luminita A. Multiphase object detection and image segmentation. (English summary)
— (*with* Osher, Stanley J.) Image denoising and decomposition with total variation minimization and oscillatory functions. (English summary)
Vetterli, Martin *see* **Do, Minh N., 2004c:94011** *and* **2004h:94006**
Wadströmer, Niclas An automatization of Barnsley's algorithm for the inverse problem of iterated function systems. (English summary)
Wainwright, Martin J. *see* **Portilla, Javier et al.**
Walker, James Stephan New methods in wavelet-based image denoising. (English summary) (*see* **2004i:00014**)
Wang, Ge *see* **Jiang, Ming[1]**
Wang, Li Guang[2] (*with* Li, Xian Yi[2]; Yang, Xiao Lin) Research on algorithms for computation of 3-dimensional digital convolutions with bivariate polynomial transform. (Chinese. English and Chinese summaries) **2004i:94014**
Wang, Mei Qing *see* **Zhang, Zhong Huo**
Wang, Qian[5] (*with* Li, Lida; Tan, Chew Lim; Xia, Tao) Image enhancement of historical documents using directional wavelet. (English summary)
Wang, Xiang Yang[2] (*with* Yang, Hong Ying) A fast image coding algorithm based on human visual system. (Chinese. English and Chinese summaries)
Wang, Yan Fei On the regularity of trust region-cg algorithm: with application to deconvolution problem. (English summary) **2004j:94006**
Wang, Zhenwu *see* **Hu, Junquan et al.**
Wattanapongsakorn, N. *see* **Achalakul, T.**
van de Weijer, Joost *see* **Geusebroek, Jan-Mark et al.**
Wen, Gao Jin (*with* Quan, Hui Yun; He, Zhi Min) Methods of constructing optimal wavelet filters based on a genetic algorithm. (Chinese. English and Chinese summaries)
Wernick, Miles N. *see* **Yang, Yong Yi et al., 2004i:94015**
Willsky, Alan S. *see* **Yezzi, Anthony, Jr. et al.**
Wilson, Roland G. *see* **Rajpoot, Nasir M. et al.**
Winkler, Gerhard ★ Image analysis, random fields and Markov chain Monte Carlo methods. **2004c:94028**
Wu, Wenkai *see* **Ren, Haiping et al., 2004c:94025**
Wu, Xiaolin *see* **Dumitrescu, Sorina, 2004m:94004**
Xia, Tao *see* **Wang, Qian[5] et al.**
Xiao, Zhi Qiang *see* **Lin, Jian[2] et al.**
(Xiong, Huilin) *see* **Tian, Jun[1], 2004h:94007**
Yamashita, Yukihiko *see* **Tanaka, Toshihisa, 2004b:94010**
Yang, En-hui *see* **Jia, Yunwei**
Yang, Hong Ying *see* **Wang, Xiang Yang[2]**
Yang, Simon X. *see* **Huang, Xi Yue et al.**
Yang, Xiao Lin *see* **Wang, Li Guang[2] et al., 2004i:94014**
Yang, Yong Yi (*with* Wernick, Miles N.; Brankov, Jovan G.) A fast approach for accurate content-adaptive mesh generation. (English summary) **2004i:94015**
Yap, Pew-Thian (*with* Paramesran, Raveendran; Ong, Seng-Huat) Image analysis by Krawtchouk moments. (English summary) **2004k:94009**
Yasui, Takao *see* **Li, Wei et al.**
Ye, Min *see* **Zhang, HongMei et al.**
Yezzi, Anthony, Jr. (*with* Soatto, Stefano; Jin, Hailin; Tsai, Andy; Willsky, Alan S.) Mumford-Shah for segmentation and stereo. (English summary)
— *see also* **Unal, Gozde et al., 2004c:94027**; **Manay, Siddharth** *and* **Soatto, Stefano et al.**
Yoshitomi, Yasunari (*with* Kai, Kouji; Tabuse, Masayoshi) Optimization of remote-sensing image compression through uncertain-environment-type genetic algorithms and wavelet transformations. (Japanese)
Yu, Sheng-sheng (*with* He, Xiao-cheng; Zhou, Jing-li; Chen, Jia-zhong) The boundary processing of wavelet based image compression. (English summary)
Yu, Yongjian (*with* Acton, Scott T.) Speckle reducing anisotropic diffusion. (English summary) **2004c:94029**
Yuan, Ze Jian *see* **Zhang, HongMei et al.**
Yun, Il Dong (*with* Choo, Kyowoong; Lee, Sang Uk) Mesh simplification using the edge attributes. (English summary)
Žagar, Emil *see* **Jogan, Matjaž et al.**
Zaki, F. W. *see* **Behiry, S. H. et al.**
Zavorin, Ilya *see* **Cole-Rhodes, Arlene A. et al.**
Zeevi, Yehoshua Y. *see* **Gilboa, Guy et al.**
Zeljković, Vesna (*with* Trpovski, Željen; Šenk, Vojin) New algorithm for moving object detection. (English summary)
Zeng, Sanyou (*with* Ding, Lixin; Kang, Li-shan) A method to approach optimal restoration in image restoration problems without noise energy information. (English summary) **2004m:94006**
Zhang, Chongzhen (*with* Cohen, Fernand S.) 3-D face structure extraction and recognition from images using 3-D morphing and distance mapping. (English summary) **2004c:94030**
Zhang, HongMei (*with* Bian, ZhengZhong; Yuan, Ze Jian; Ye, Min; Ji, Feng) A novel multiresolution fuzzy segmentation method on MR image. (English summary)
(Zhang, Tianxu) *see* **Tian, Jun[1], 2004h:94007**
Zhang, Xing[2] *see* **Kharitonenko, Igor et al., 2004c:94016**
Zhang, Ze Yin *see* **Hu, Junquan et al.**
Zhang, Zhong Huo (*with* Wang, Mei Qing) An amendatory sequence fractal image coding method based on a new affine transform. (Chinese. English and Chinese summaries)
Zhao, Hong An *see* **Lü, Ke et al.**
Zhou, Jing-li *see* **Yu, Sheng-sheng et al.**
Zhou, Ming Quan *see* **Lü, Ke et al.**
Zhu, Yang-Ming (*with* Cochoff, Steven M.) Likelihood maximization approach to image registration. (English summary) **2004c:94031**

Items with secondary classifications in 94A08

Acho Zuppa, Leonardo *see* **Rolón Garrido, Julio C. et al.**
Adler, R. L. (*with* Kitchens, B. P.; Martens, M.; Tresser, Charles; Wu, Chai Wah) The mathematics of halftoning. (English summary) **2004a:68150**
Ahn, Byung-Ha *see* **Kim, Jong-Nam et al., 2004b:68175**
Akansu, Ali N. *see* **Ramkumar, Mahalingam**
Alata, Olivier (*with* Najim, Mohamed; Ramananjarasoa, Clarisse; Turcu, Flavius) Extension of the Schur-Cohn stability test for 2-D AR quarter-plane model. (English summary) **2004i:62153**
Álvarez León, Luis (*with* Blanc, A.-P.; Mazorra, L.; Santana, F.) Geometric invariant shape representations using morphological multiscale analysis. (English summary) **2004b:68154**
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Amerijckx, C. (*with* Legat, J.-D.; Verleysen, Michel) Image compression using self-organizing maps. (English summary)
Angenent, Sigurd (*with* Haker, Steven; Tannenbaum, Allen) Minimizing flows for the Monge-Kantorovich problem. (English summary) **2004g:49070**
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Ashino, Ryuichi (*with* Desjardins, S. J.; Heil, Christopher; Nagase, Michihiro; Vaillancourt, Rémi) Smooth tight frame wavelets and image microanalysis in the Fourier domain. (English summary) **2004i:42030**
Ayala, Guillermo *see* **Simó, Amelia et al.**
Baraniuk, Richard G. *see* **Neelamani, Ramesh et al.**
Barnsley, Michael F. Iterated function systems for lossless data compression. (English summary) **2004c:28013**
Baumeister, Johann Bildgebende Verfahren und Aspekte der Bildverarbeitung. (German summary) [Image-producing methods and aspects of image processing] **2004e:68114**
Bellettini, Giovanni (*with* March, Riccardo) An image segmentation variational model with free discontinuities and contour curvature. (English summary) **2004m:49042**
Berg, Michel J. *see* **Dockstader, Shiloh L. et al.**
Bertaia, M. (*with* Morigi, S.; Loli Piccolomini, E.; Sgallari, Fiorella; Zama, F.) Regularization of large discrete ill-posed problems in image processing. (English summary) (*see* **2004h:65007**)
Bertram, Martin Lifting biorthogonal B-spline wavelets. (English summary) (*see* **2004j:65006**)
Binz, Ernst (*with* Schempp, Walter J.) Digital information processing: the Lie groups defining the filter banks of the compact disc.
Blackledge, Jonathan M. (*with* Foxon, B.; Mikhailov, S.) Fractal dimension segmentation. (English summary) (*see* **2004j:94002**)
— (*with* Mikhailov, S.; Turner, Martin J.) Fractal modulation and other applications from a theory of the statistics of dimension. (English summary) **2004c:60153**
— *see also* **Turner, Martin J., (2004d:28001)**
Blanc, A.-P. *see* **Álvarez León, Luis et al., 2004b:68154**
Bockmayr, Alexander (*with* Kasper, Thomas) Branch-and-infer: a framework for combining CP and IP. (English summary) (*see* **2004k:90007**)
Brackx, Fred F. (*with* de Schepper, Nele; Sommen, Franciscus) The higher dimensional Hermite transform: a new approach. (English summary) **2004b:44003**
Braga-Neto, Ulisses (*with* Goutsias, John) A theoretical tour of connectivity in image processing and analysis. (English summary) **2004g:68184**
Breen, David *see* **Museth, Ken et al.**
Bui, T. D. *see* **Yang, Li Hua[1] et al.**
Bultheel, Adhemar *see* **Windmolders, Joris et al., 2004b:65022**
Burillo López, Pedro J. (*with* Frago, N.; Fuentes González, Ramón) Fuzzy morphological operators in image processing. (English summary)
Byrne, Charles A unified treatment of some iterative algorithms in signal processing and image reconstruction. (English summary) **2004k:47097**
Byun, Sung-Cheal *see* **Kim, Jong-Nam et al., 2004b:68175**
Candès, Emmanuel J. (*with* Donoho, David L.) New tight frames of curvelets and optimal representations of objects with piecewise C^2 singularities. (English summary) **2004k:42052**
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Chambolle, Antonin ★ Mathematical problems in image processing. (English summary) **2004f:68170**
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Choi, Hyeokho *see* **Neelamani, Ramesh et al.**
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Cinque, Luigi (*with* De Agostino, Sergio) A work-optimal parallel implementation of lossless image compression by block matching. (English summary) **2004f:68171**
Clarenz, Ulrich (*with* Droske, M.; Rumpf, Martin) Towards fast non-rigid registration. (English summary) **2004b:65139**
Cohen, Albert ★ Numerical analysis of wavelet methods. **2004c:65178**
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De Agostino, Sergio *see* **Cinque, Luigi, 2004f:68171**
Deschamps, Thomas (*with* Cohen, Laurent D.) Grouping connected components using minimal path techniques. (English summary)
Desjardins, S. J. *see* **Ashino, Ryuichi et al., 2004i:42030**
Desolneux, Agnès (*with* Moisan, Lionel; Morel, Jean-Michel) Maximal meaningful events and applications to image analysis. (English summary) **2004m:62149**
Di Benedetto, Fabio The mth difference operator applied to L^2 functions on a finite interval. (English summary) **2004g:39035**
Dierckx, Paul *see* **Windmolders, Joris et al., 2004b:65022**
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Donoho, David L. (*with* Grimes, Carrie) Hessian eigenmaps: locally linear embedding techniques for high-dimensional data. (English summary) **2004e:62108**
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Dyn, Nira *see* **Cohen, Albert et al., 2004h:65016**
Elad, Michael On the origin of the bilateral filter and ways to improve it. (English summary) **2004c:94042**
Esedoglu, Selim (*with* March, Riccardo) Segmentation with depth but without detecting junctions. (English summary) **2004a:68152**
Falkowski, Bogdan J. *see* **Chang, Chip-Hong, 2004g:94115**
Faloutsos, Christos *see* **Kumaraswamy, Krishna et al.**
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Feng, Haihua (*with* Karl, William Clem; Castañon, David A.) A curve evolution approach to object-based tomographic reconstruction. (English summary) **2004a:68153**
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Ferdous, Nazma *see* **Cox, James L. et al., 2004b:68172**
Fischer, Bernd[1] (*with* Modersitzki, Jan) Curvature based image registration. (English summary) **2004b:68173**
Foxon, B. *see* **Blackledge, Jonathan M. et al., (2004j:94002)**
Frago, N. *see* **Burillo López, Pedro J. et al.**
Freeden, Willi (*with* Mayer, Carsten) Wavelets generated by layer potentials. (English summary) **2004c:42067**
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Gao, Xin (*with* Liu, Lai Fu; Huang, Hai Yang) Survey-image analysis and processing by using PDE and geometric-curvature-driven diffusion. (Chinese. English and Chinese summaries) **2004m:65164**
Gbur, Greg (*with* Wolf, Emil) The information content of the scattered intensity in diffraction tomography. (English summary)
Giancarlo, Raffaele (*with* Sciortino, Marinella) Optimal partitions of strings: a new class of Burrows-Wheeler compression algorithms. (English summary)
Gobbers, Jean-François *see* **Vandergheynst, Pierre, 2004i:94024**
Goldenshluger, A. (*with* Spokoĭnyĭ, V. G.) On the shape-from-moments problem and recovering edges from noisy Radon data. (English summary) **2004k:44001**
Goutsias, John *see* **Braga-Neto, Ulisses, 2004g:68184**
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Grimes, Carrie *see* **Donoho, David L., 2004e:62108**
Grimson, Eric *see* **Leventon, Michael et al.**
Gzyl, Henryk (*with* Zeev, Noam) Probabilistic approach to an image reconstruction problem. (English summary) **2004f:60158**
Haas, Shane M. (*with* Frei, Mark G.; Osorio, Ivan; Pasik-Duncan, Bozenna; Radel, Jeff) EEG ocular artifact removal through ARMAX model system identification using extended least squares. (English summary)
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Han, Zheng Zhi *see* **Li, Chang Gang et al.**
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Handlovičová, Angela (*with* Mikula, Karol; Sgallari, Fiorella) Semi-implicit complementary volume scheme for solving level set like equations in image processing and curve evolution. (English summary) **2004b:65117**
Heil, Christopher *see* **Ashino, Ryuichi et al., 2004i:42030**
Heinlein, Peter Discretizing continuous wavelet transforms using integrated wavelets. (English summary) **2004a:42048**
Henn, Stefan (*with* Witsch, Kristian) Multimodal image registration using a variational approach. (English summary) **2004k:92021**
Herman, Gabor T. *see* **Liao, Hstau Y.**
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Hochbruck, Marlis (*with* Sautter, Jörg-M.) Mathematik fürs Leben am Beispiel der Computertomographie. (German summary) [Mathematics for life, using the example of computer tomography] **2004g:44001**
Hoggar, S. G. (*with* Menzies, L.) Jigsaws and faster fractal pictures. (English summary) (*see* **2004j:94002**)
Huang, Hai Yang *see* **Gao, Xin et al., 2004m:65164**
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Iancu, Laurentiu *see* **Ritter, Gerhard X. et al., 2004g:68147**
Imiya, Atsushi (*with* Saito, Masahiko; Tatara, Ken; Nakamura, Kiwamu) Digital curvature flow and its application for skeletonization. (English summary) **2004a:68155**
Jónás, R. *see* **Fazekas, G.**
Karl, William Clem *see* **Feng, Haihua et al., 2004a:68153**
Karron, D. B. *see* **Cox, James L. et al., 2004b:68172**
Kasper, Thomas *see* **Bockmayr, Alexander, (2004k:90007)**
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Kendall, Wilfrid S. (*with* Wilson, Roland G.) Ising models and multiresolution quad-trees. (English summary) **2004d:62328**
Kharitonov, Vladimir L. (*with* Torres Muñoz, Jorge A.) Stability of multivariate polynomials. IV. Conic sets. (English summary) **2004d:93096**
Kikinis, Ron *see* **Leventon, Michael et al.**
Kim, Do-Jong (*with* Park, Dong-Jo) Fast iterative computation of Gaussian mixture parameters and optimal image segmentation. (English summary) **2004a:68156**
Kim, Jong-Nam (*with* Byun, Sung-Cheal; Kim, Yong-Hoon; Ahn, Byung-Ha) Fast full search motion estimation algorithm using early detection of impossible candidate vectors. (English summary) **2004b:68175**
Kim, Tae Sik Image encryption through the bit plane decomposition. (English summary)
Kim, Yong-Hoon *see* **Kim, Jong-Nam et al., 2004b:68175**
Kimmel, Ron (*with* Yavneh, Irad) An algebraic multigrid approach for image analysis. (English summary) **2004d:65042**
— *see also* **Spira, Alon, (2004j:65004)**
Kitchens, B. P. *see* **Adler, R. L. et al., 2004a:68150**
Koenderink, Jan J. Image space. (English summary) (*see* **2004i:00012**)
Krause, Matthias (*with* Simon, Hans Ulrich) Determining the optimal contrast for secret sharing schemes in visual cryptography. (English summary) **2004f:94065**
Kühne, Gerald *see* **Weickert, Joachim**
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Kuroe, Yasuaki A model of complex-valued associative memories and its dynamics.
Lauritsch, Guenter *see* **Katsevich, Alexander**
Leblond, Michel (*with* Rousselle, François; Renaud, Christophe) Generalized block iterative methods. (English summary) (*see* **2004j:00028**)
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Liu, Lai Fu *see* **Gao, Xin et al., 2004m:65164**
Liu, Xian[2] On performance of quadrant-recursive spatial orders. (English summary) **2004c:68155**
Loli Piccolomini, E. *see* **Bertaia, M. et al., (2004h:65007)**
Malladi, Ravi (*with* Sethian, James A.) Fast methods for shape extraction in medical and biomedical imaging. (English summary)
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Mallat, Stéphane G. Foveal detection and approximation for singularities. (English summary) **2004c:42072**
Mao, Yaobin *see* **Chen, Guanrong et al., 2004m:94037**
March, Riccardo *see* **Esedoglu, Selim, 2004a:68152** *and* **Bellettini, Giovanni, 2004m:49042**
Martens, M. *see* **Adler, R. L. et al., 2004a:68150**

Mastronardi, Nicola *see* **Lemmerling, Philippe et al., 2004e:15003**
Matei, Basarab *see* **Cohen, Albert et al., 2004h:65016**
Mayer, Carsten *see* **Freeden, Willi, 2004c:42067**
Mazorra, L. *see* **Álvarez León, Luis et al., 2004b:68154**
Megalooikonomou, Vasileios *see* **Kumaraswamy, Krishna et al.**
Meijering, Erik (*with* Unser, Michael) A note on the cubic convolution interpolation. (English summary) **2004d:41004**
Meister, Andreas[2] *see* **Grahs, Thorsten et al.**, (**2004k:65005**)
Menzies, L. *see* **Hoggar, S. G.**, (**2004j:94002**)
Mihaila, Ioana *see* **Sansgiry, Prashant**, (**2004c:00012**)
Mikhailov, S. *see* **Blackledge, Jonathan M. et al., 2004c:60153** *and* (**2004j:94002**)
Mikula, Karol *see* **Handlovičová, Angela et al., 2004b:65117**
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Morel, Jean-Michel *see* **Desolneux, Agnès et al., 2004m:62149**
Morigi, S. *see* **Bertaia, M. et al.**, (**2004h:65007**)
Museth, Ken (*with* Whitaker, Ross; Breen, David) Editing geometric models. (English summary)
Nagase, Michihiro *see* **Ashino, Ryuichi et al., 2004i:42030**
Najim, Mohamed *see* **Alata, Olivier et al., 2004i:62153**
Nakamura, Kiwamu *see* **Imiya, Atsushi et al., 2004a:68155**
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Nguyen, Truong Q. *see* **Oraintara, Soontorn et al.**
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Osorio, Ivan *see* **Haas, Shane M. et al.**
Paramesran, Raveendran *see* **Wee, Chong-Yaw et al.**
Park, Dong-Jo *see* **Kim, Do-Jong, 2004a:68156**
Pasik-Duncan, Bozenna *see* **Haas, Shane M. et al.**
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Plonka, Gerlind (*with* Tasche, Manfred) Integer DCT-II by lifting steps. (English summary)
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Potapov, V. N. Redundancy estimates for the Lempel-Ziv algorithm of data compression. (English summary)
Prados-Suárez, B. *see* **Chamorro-Martínez, J. et al., 2004m:68265**
Prince, Jerry *see* **Han, Xiao[2] et al.**
Prohl, Andreas *see* **Feng, Xiaobing, 2004f:65149**
Qin, Qian Qing *see* **Duan, Shan**
Radel, Jeff *see* **Haas, Shane M. et al.**
Ramananjarasoa, Clarisse *see* **Alata, Olivier et al., 2004i:62153**
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Ravve, Igor *see* **Malladi, Ravi**, (**2004j:00028**)
Remaki, L. *see* **Cheriet, M., 2004h:65075**
Renaud, Christophe *see* **Leblond, Michel et al.**, (**2004j:00028**)
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Rousselle, François *see* **Leblond, Michel et al.**, (**2004j:00028**)
Rumpf, Martin *see* **Clarenz, Ulrich et al., 2004b:65139**
Sahoo, Prasanna K. (*with* Székelyhidi, László) On the general solution of a functional equation on $\mathbb{Z} \oplus \mathbb{Z}$. (English summary) **2004h:39063**
Saito, Masahiko *see* **Imiya, Atsushi et al., 2004a:68155**
Salomon, David Data compression. (English summary) (*see* **2004b:68001**)
Sánchez, Daniel *see* **Chamorro-Martínez, J. et al., 2004m:68265**
Sansgiry, Prashant (*with* Mihaila, Ioana) Selective thresholding in wavelet image compression. (English summary) (*see* **2004c:00012**)
Santana, F. *see* **Álvarez León, Luis et al., 2004b:68154**
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— *see also* **Fedkiw, Ronald P. et al., 2004c:65089**
Sautter, Jörg-M. *see* **Hochbruck, Marlis, 2004g:44001**
Schempp, Walter J. *see* **Binz, Ernst**
de Schepper, Nele *see* **Brackx, Fred F. et al., 2004b:44003**
Sciortino, Marinella *see* **Giancarlo, Raffaele**
Sethian, James A. *see* **Malladi, Ravi**
Sgallari, Fiorella *see* **Handlovičová, Angela et al., 2004b:65117** *and* **Bertaia, M. et al.**, (**2004h:65007**)
Shen, Jianhong A note on wavelets and diffusions. (English summary) **2004k:42062**
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Shen, Lan Sun *see* **Zhang, Xin Ming**
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Shu, Chi-Wang *see* **Fedkiw, Ronald P. et al., 2004c:65089**
Simó, Amelia (*with* de Ves, Esther; Ayala, Guillermo) Resuming shapes with applications. (English summary)
— *see also* **Gallego, Ángeles M.**
Simon, Hans Ulrich *see* **Krause, Matthias, 2004f:94065**
Soille, Pierre ★ Morphological image analysis. **2004e:68115**
Solé, Andreas F. *see* **Osher, Stanley J. et al., 2004k:49004**
Sommen, Franciscus *see* **Brackx, Fred F. et al., 2004b:44003**
Sonar, Thomas *see* **Grahs, Thorsten et al.**, (**2004k:65005**)
Spira, Alon (*with* Kimmel, Ron) Geodesic curvature flow on parametric surfaces. (English summary) (*see* **2004j:65004**)
Spitaleri, R. M. Numerical insights in the solution of Euler equations of the variational image segmentation. (English summary) **2004e:65122**
Spokoĭnyĭ, V. G. *see* **Goldenshluger, A., 2004k:44001**
Suen, Ching Yun *see* **Yang, Li Hua[1] et al.**
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Sussner, Peter *see* **Graña, Manuel et al.**
Székelyhidi, László *see* **Sahoo, Prasanna K., 2004h:39063**
Takeda, Fumiaki *see* **Wee, Chong-Yaw et al.**
Tannenbaum, Allen *see* **Angenent, Sigurd et al., 2004g:49070**; **Mathematical methods in computer vision, 2004k:68008** *and* **Haker, Steven**, (**2004d:93004**)
Tasche, Manfred *see* **Plonka, Gerlind**
Tatara, Ken *see* **Imiya, Atsushi et al., 2004a:68155**
Taubin, Gabriel New results in signal processing and compression of polygon meshes. (*see* **2004j:65006**)
Tekalp, A. Murat *see* **Dockstader, Shiloh L. et al.**
Torres Muñoz, Jorge A. *see* **Kharitonov, Vladimir L., 2004d:93096**
Tran, Trac D. *see* **Oraintara, Soontorn et al.**
Tresser, Charles *see* **Adler, R. L. et al., 2004a:68150**
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Urcid, Gonzalo *see* **Ritter, Gerhard X. et al., 2004g:68147**
Vaillancourt, Rémi *see* **Ashino, Ryuichi et al., 2004i:42030**
Vandergheynst, Pierre (*with* Gobbers, Jean-François) Directional dyadic wavelet transforms: design and algorithms. (English summary) **2004i:94024**
Van Huffel, Sabine *see* **Lemmerling, Philippe et al., 2004e:15003**
Vanraes, Evelyne *see* **Windmolders, Joris et al., 2004b:65022**
Verleysen, Michel *see* **Amerijckx, C. et al.**
de Ves, Esther *see* **Simó, Amelia et al.**
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Vila, M. Amparo *see* **Chamorro-Martínez, J. et al., 2004m:68265**
Vrhel, Michael J. *see* **Trussell, H. J.**
Vrscay, Edward R. From fractal image compression to fractal-based methods in mathematics. **2004a:28020**
Wang, Rang Ding *see* **Zhang, Gui Cang et al.**
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Wei, Ming *see* **Chao, Hongyang**
Weickert, Joachim (*with* Kühne, Gerald) Fast methods for implicit active contour models. (English summary)
Wells, William, III *see* **Leventon, Michael et al.**
Whitaker, Ross *see* **Museth, Ken et al.**
Wilson, Roland G. *see* **Kendall, Wilfrid S., 2004d:62328**
Windmolders, Joris (*with* Vanraes, Evelyne; Dierckx, Paul; Bultheel, Adhemar) Uniform Powell-Sabin spline wavelets. (English summary) **2004b:65022**
Witsch, Kristian *see* **Henn, Stefan, 2004k:92021**
Wolf, Emil *see* **Gbur, Greg**
Wu, Chai Wah *see* **Adler, R. L. et al., 2004a:68150**
Wu, Hsien-Chu (*with* Chang, Chin-Chen) Hiding digital watermarks using fractal compression technique. (English summary)
Wunderli, T. *see* **Chen, Yun Mei, 2004g:49072**
Xie, Min[3] *see* **Cong, Jason et al.**, (**2004f:90010**)
Xu, Chenyang *see* **Han, Xiao[2] et al.**
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Yang, Shiqiang *see* **Yuan, Chun et al.**
Yavneh, Irad *see* **Kimmel, Ron, 2004d:65042**
Yuan, Chun (*with* Zhong, Yuzhuo; Yang, Shiqiang) Composite chaotic pseudo-random sequence encryption algorithm for compressed video. (English summary)
Zalesskiĭ, B. A. Bayesian estimation of gray-scale images using maximum network flow algorithms. (Russian. English and Russian summaries) **2004h:62118**
Zama, F. *see* **Bertaia, M. et al.**, (**2004h:65007**)
Zeev, Noam *see* **Gzyl, Henryk, 2004f:60158**

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94A11 Application of orthogonal functions in communication

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94A12 Signal theory (characterization, reconstruction, etc.)

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Herment, Alain *see* **Giovannelli, Jean-François et al., 2004c:94045**
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Hsu, Yu-Hsin *see* **Cheng, Mu-Huo, 2004a:94010**
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Hua, Li *see* **Fowler, James E., 2004c:94043**
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Iskander, D. Robert *see* **Morelande, Mark R.**
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Janzing, Dominik (*with* Beth, Thomas) Quasi-order of clocks and their synchronism and quantum bounds for copying timing information. (English summary) **2004c:94048**
Jen, Chein-Wei *see* **Yeh, Wen-Chang, 2004c:94055**
Jiang, Ling-ge *see* **He, Di et al., 2004d:94012**
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Jiang, Yimin (*with* Sun, Feng-Wen; Baras, John S.) On the performance limits of data-aided synchronization. (English summary) **2004b:94018**
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Kayran, Ahmet H. (*with* Erer, Işin) Optimum asymmetric half-plane autoregressive lattice parameter modeling of 2-D fields. (English summary)
Kerby, Rodney *see* **Benedetto, John J. et al., 2004d:94008**
Kishigami, Takaaki *see* **Takeda, Mitsuo**
Kmet′, A. B. *see* **Ritsar, B. Ē.**
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Kotov, V. V. (*with* Larkin, E. V.) On an application of wavelet analysis for the solution of recognition problems. (Russian. English and Russian summaries)
Kovačević, Natasha *see* **Ferrando, Sebastian E. et al., 2004h:94014**
Kruizinga, Peter *see* **Grigorescu, Simona E. et al., 2004b:94017**
Krzyżak, Adam *see* **Pawlak, Mirosław et al.**
Kudo, Mineichi *see* **Takigawa, Ichigaku et al.**
Kumar, Dinesh Kant *see* **Pah, Nemuel D.**
van der Laan, Marten D. *see* **Lankhorst, Marc M. et al., 2004k:94013**
Lakey, Joseph D. *see* **Efromovich, Sam et al.**
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Lev-Ari, Hanoch *see* **Frakt, Austin B. et al., 2004e:94010**
Levinson, Stephen E. *see* **Pan, Hao[1] et al.**
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— Signal enhancement based on Hölder regularity analysis. (English summary) **2004c:94049**
Li, Chun Wen *see* **Chen, Xinjian et al., 2004h:94009**
Li, He-Sheng (*with* Mao, Jian Qin; Zhang, Fu-Tang; Zhao, Ming-Sheng) An algorithm for impulse response identification based on fixed scale orthogonal wavelet packet transform. (English and Chinese summaries)
Li, Jian[4] *see* **Jiang, Yi[1] et al.**
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Li, Xiao-Rong *see* **Tartakovskiĭ, Aleksandr et al., 2004b:94027**
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Liang, Jie[2] (*with* Tran, Trac D.; de Queiroz, Ricardo L.) DCT-based general structure for linear-phase paraunitary filterbanks. (English summary)
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Liang, Zhi-Pei *see* **Pan, Hao[1] et al.**
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Lin, Qiang[2] *see* **Cai, Yangjian, 2004e:94008**
Lin, Zhiping *see* **Bi, Guoan et al., 2004g:94012** *and* **Ober, Raimund J. et al., 2004h:94019**
Lindquist, Anders *see* **Georgiou, Tryphon T., 2004k:94011**
Lindsey, Alan R. *see* **Amin, Moeness G. et al., 2004f:94011**
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Linkevich, A. D. Frames in Hilbert spaces: a tool for artificial intelligence. (English summary)
Liu, Bin *see* **Chu, Dong Sheng et al., 2004c:94039**
Liu, Feng[1] *see* **Zhang, Zhuosheng et al., 2004m:94011**
Liu, Guizhong *see* **Zhang, Zhuosheng et al., 2004m:94011**
Liu, Guo-Sui *see* **Guo, Xin et al., 2004c:94046a** *and* **Xia, Xiang-Gen, 2004c:94046b**
Liu, Xiaohui *see* **Wang, Zidong et al., 2004h:94024**
Lombardi, Giovanni *see* **Buresti, Guido et al.**
Lombardini, Fabrizio (*with* Montanari, Monica; Gini, Fulvio) Reflectivity estimation for multibaseline interferometric radar imaging of layover extended sources. (English

summary)
López-Ferreras, F. *see* **Ruiz-Reyes, N. et al.**
Lops, Marco *see* **Buzzi, Stefano et al.**
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Luginbuhl, Tod (*with* Willett, Peter) Estimating the parameters of general frequency modulated signals. (English summary)
Luk′yanov, A. G. *see* **Obregón-Pulido, G. et al., 2004g:94015**
Luo, Zhi-Quan (*with* Lu, Jun[3]) On blind source separation using mutual information criterion. (English summary) **2004j:94011**
Ma, Hong[1] *see* **Su, Wei et al., (2004j:94003)**
Ma, Kai-Kuang *see* **Gan, Lu, 2004c:94044**
Mahony, Robert *see* **Manton, Jonathan H. et al., 2004a:94018**
Mallat, Stéphane G. *see* **Donoho, David L. et al., 2004d:94009**
Mallick, Bani K. *see* **Ray, Shubhankar**
Mandal, Mrinal Kr. *see* **Liao, Hongyu et al.**
Mandic, Danilo P. (*with* Goh, Su Lee; Hanna, Andrew Ian) Data-reusing algorithm for complex-valued adaptive filters.
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Man′ko, Margarita A. *see* **De Nicola, Sergio et al., (2004i:81006)**
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Mansoori, Sana Ahmed *see* **Hanna, Magdy Tawfik, 2004j:94008**
Manton, Jonathan H. (*with* Mahony, Robert; Hua, Yingbo) The geometry of weighted low-rank approximations. (English summary) **2004a:94018**
Mao, Jian Qin *see* **Li, He-Sheng et al.**
Marano, Stefano (*with* Matta, Vincenzo; Willett, Peter) Sequential detection of almost-harmonic signals. (English summary) **2004c:94050**
Marelli, Damián (*with* Fu, Minyue) Performance analysis for subband identification. (English summary)
Martin, Nadine *see* **Hory, Cyril et al., 2004c:94047**
Martínez-Muñoz, D. *see* **Ruiz-Reyes, N. et al.**
Martínez-Ramón, Manel *see* **Rojo-Álvarez, José Luis et al.**
Matei, Basarab Denoising using nonlinear multiscale representations. (English and French summaries)
Mathis, Heinz (*with* Douglas, Scott C.) Bussgang blind deconvolution for impulsive signals. (English summary) **2004h:94017**
Matta, Vincenzo *see* **Marano, Stefano et al., 2004c:94050**
Mehr, Aryan Saadat (*with* Chen, Tongwen) Representations of linear periodically time-varying and multirate systems. (English summary) **2004b:94020**
Mersereau, Russell M. *see* **Fekri, Faramarz et al., 2004a:94013**
Messer, Hagit *see* **Friedmann, Jonathan et al.**
Mhaskar, H. N. On the representation of band limited functions using finitely many bits. (English summary) **2004a:94019**
Micchelli, Charles A. *see* **Basu, Sankar et al., 2004c:94036**
Milocco, Ruben H. (*with* Muravchik, Carlos H.) H_2 optimal linear robust sampled-data filtering design using polynomial approach. (English summary)
Moir, T. J. (*with* Barrett, J. F.) A kepstrum approach to filtering, smoothing and prediction with application to speech enhancement. (English summary) **2004i:94021**
Montanari, Monica *see* **Lombardini, Fabrizio et al.**
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Morelande, Mark R. (*with* Iskander, D. Robert) Formulation and comparison of two detectors of independent timing jitter in a complex harmonic. (English summary)
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Morris, Joel M. *see* **Joshi, Sanjay M., 2004f:94022**
Morvidone, Marcela (*with* Torresani, Bruno) Time scale approach for chirp detection. (English summary)
Moulin, Pierre *see* **Ishwar, Prakash, 2004d:94013**
Moulines, Éric *see* **Lasaulce, Samson et al.**
Mozeson, Eli *see* **Levanon, Nadav, (2004d:11002)**
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Muravchik, Carlos H. *see* **Milocco, Ruben H.**
Muresan, D. Darian (*with* Parks, Thomas W.) Orthogonal, exactly periodic subspace decomposition. (English summary) **2004h:94018**
Muthukrishnan, S. Muthu *see* **Guha, Sudipto et al.**
Napolitano, Antonio Uncertainty in measurements on spectrally correlated stochastic processes. (English summary) **2004i:94022**
— *see also* **Izzo, Luciano, 2004j:94009** *and* **2004j:94010**
Narasimha, Rajesh *see* **Lee, Seungsin et al.**
Nasri-Roudsari, G. *see* **Butzer, Paul L., (2004j:94002)**
Neagu, Radu (*with* Zhurbenko, Igor G.) Algorithm for adaptively smoothing the log-periodogram. (English summary) **2004e:94012**
Neelamani, Ramesh (*with* Choi, Hyeokho; Baraniuk, Richard G.) ForWaRD: Fourier-wavelet regularized deconvolution for ill-conditioned systems. (English summary)
Nehorai, Arye *see* **Yetik, İmam Şamil**
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Nenadić, Z. (*with* Ghosh, Bijoy Kumar) Encoding with decoding of analog signals with a population of neurons. (English summary)
Ng, Shek-wai (*with* Lee, Yim-Shu) Implementation of an efficient small-signal simulation algorithm. (English summary)
Nguyen, Truong Q. *see* **Hoang Duong Tuan et al., 2004f:94019**
Nico, Giovanni (*with* Fortuny, Joaquim) Using the matrix pencil method to solve phase unwrapping. (English summary) **2004b:94021**
Nikitin, Alexei V. (*with* Davidchack, Ruslan L.) Signal analysis through analog representation. (English summary) **2004f:94024**
Nikolajevic, Vladimir (*with* Fettweis, Gerhard) Computation of forward and inverse MDCT using Clenshaw's recurrence formula. (English summary)
Ninness, Brett The asymptotic CRLB for the spectrum of ARMA processes. (English summary) **2004g:94014**
Nobel, Andrew B. On optimal sequential prediction for general processes. (English summary) **2004e:94013**
Nordebo, Sven *see* **Dam, Hai Huyen et al., 2004c:94041**
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Ober, Raimund J. (*with* Zou, Qiyue; Lin, Zhiping) Calculation of the Fisher information matrix for multidimensional data sets. (English summary) **2004h:94019**
Obregón-Pulido, G. (*with* Castillo-Toledo, Bernardino; Luk′yanov, A. G.) A globally convergent estimator for n-frequencies. (English summary) **2004g:94015**
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Oliaei, Omid Laplace domain analysis of periodic noise modulation. (English summary) **2004f:94026**
de Oliveira, L. C. O. *see* **Duarte, M. A. Q. et al.**
Olsen, Peder A. *see* **Basu, Sankar et al., 2004c:94036**
Oppenheim, Alan V. *see* **Eldar, Yonina C., 2004f:94016**
Ortega, Antonio *see* **Beferull-Lozano, Baltasar, 2004b:94013**
Orton, Matthew (*with* Fitzgerald, William) A Bayesian approach to tracking multiple targets using sensor arrays and particle filters. (English summary) **2004j:94012**
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Pandey, Sheel Sindhu *see* **Feichtinger, Hans Georg, 2004f:94017**
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Park, Jongseung (*with* Moon, Jaekyun) Alternative structure for computing APPs of the Markov source. (English summary) **2004g:94016**
Parks, Thomas W. *see* **Muresan, D. Darian, 2004h:94018**
Pawlak, Mirosław (*with* Rafajłowicz, Ewaryst; Krzyżak, Adam) Postfiltering versus prefiltering for signal recovery from noisy samples. (English summary)
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— (*with* Ding, Jian-Jiun) Eigenfunctions of the offset Fourier, fractional Fourier, and linear canonical transforms. (English summary) **2004c:94052**
Penny, Will D. *see* **Roberts, Stephen J., 2004c:94053**
Pereyra, María Cristina *see* **Efromovich, Sam et al.**
Perrine, Serge *see* **Planat, Michel et al., 2004a:94020**
Petkov, Nikolay *see* **Grigorescu, Simona E. et al., 2004b:94017**
Pham Dinh Tuan *see* **Hosseini, Shahram et al.**
Phillips, Ihsin T. *see* **Yang, Li Hua[1] et al., (2004j:94003)**
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Planat, Michel (*with* Rosu, Haret C.; Perrine, Serge) Ramanujan sums for signal processing of low-frequency noise. (English summary) **2004a:94020**
Poor, H. Vincent *see* **Buzzi, Stefano et al., 2004b:94015**
Potter, Lee C. *see* **Rajagopal, Ravikiran, 2004b:94022**
de Prado-Cumplido, Mario *see* **Rojo-Álvarez, José Luis et al.**
Proudler, I. K. *see* **Bunch, J. R. et al., 2004b:94014**
Qin, Tai-gui *see* **Zhang, Xue-ying et al.**
Qu, Gang Rong *see* **Zhang, Zhao Tian et al.**
de Queiroz, Ricardo L. *see* **Liang, Jie[2] et al.**
Rabut, Christophe *see* **Bacchelli, Barbara et al., (2004j:65005)**
Rafajłowicz, Ewaryst *see* **Pawlak, Mirosław et al.**
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Rajagopal, Ravikiran (*with* Potter, Lee C.) Multi-channel multi-variate equalizer design. (English summary) **2004b:94022**
Rao, Raghuveer M. *see* **Lee, Seungsin et al.**
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Resende, Leonardo S. (*with* Romano, João Marcos T.; Bellanger, Maurice G.) Split Wiener filtering with application in adaptive systems. (English summary)
Richard, Cédric Time-frequency-based detection using discrete-time discrete-frequency Wigner distributions. (English summary) **2004b:94023**
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Romano, João Marcos T. *see* **Resende, Leonardo S. et al.**
Rosa-Zurera, M. *see* **Ruiz-Reyes, N. et al.**
Rosu, Haret C. *see* **Planat, Michel et al., 2004a:94020**
Rousseau, David *see* **Chapeau-Blondeau, François**

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Rowe, Daniel B. Bayesian source separation of functional sources. (English summary)
Ruizhen, Zhao *see* **Song, Guo Xiang**, (**2004j:94003**)
Ruiz-Reyes, N. (*with* Rosa-Zurera, M.; López-Ferreras, F.; Martínez-Muñoz, D.) New low bit-rate audio coding approach based on adaptive wavelet analysis. (English summary)
von Sachs, Rainer *see* **Donoho, David L. et al.**, **2004d:94009**
Saillard, Joseph *see* **Chargé, Pascal et al.**
Samuelides, Yann *see* **Donoho, David L. et al.**, **2004d:94009**
Saramäki, Tapio *see* **Bregović, Robert**
Sauer, Thomas *see* **Bacchelli, Silvia et al.**, **2004b:94012**
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Sayed, Ali H. *see* **Shin, Hyun-Chool**
Schafer, Ronald W. *see* **Fekri, Faramarz et al.**, **2004a:94013**
Scharf, Louis L. *see* **Schreier, Peter J.**
Schempp, Walter J. *see* **Binz, Ernst**
Scheper, Richard A. (*with* Teolis, Anthony) Cramér-Rao bounds for wavelet transform-based instantaneous frequency estimates. (English summary) **2004f:94027**
Schreier, Peter J. (*with* Scharf, Louis L.) Stochastic time-frequency analysis using the analytic signal: why the complementary distribution matters. (English summary)
Scott, Sherry E. *see* **Benedetto, John J. et al.**, **2004d:94008**
Seara, Rui *see* **Tobias, Orlando J.**
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Selyaninov, M. Yu. Application of a numerical-analytic modular computing technique for performing additive and multiplicative operations on signals in spaces of orthogonal projections. (Russian. English and Russian summaries)
Setti, Gianluca *see* **Rovatti, Riccardo et al.**, **2004b:94024**
Shen, Lan Sun *see* **Zhang, Xin Ming**
Shen, Ting-zhi *see* **Xie, Zhi-hong et al.** *and* **Wang, Hai et al.**
Shi, Bai Le *see* **Zhao, Hui[1] et al.**
Shi, Ke-Ren *see* **Zhang, Xiu-Feng et al.**
Shin, Chang Eon Generalized Hermite interpolation and sampling theorem involving derivatives. (English summary) **2004b:94025**
Shin, Hyun-Chool (*with* Sayed, Ali H.) Mean-square performance of a family of affine projection algorithms. (English summary)
Shkvarko, Yu. V. Estimation of wavefield power distribution in the remotely sensed environment: Bayesian maximum entropy approach. (English summary) **2004b:94026**
Shuman, Karen L. Complete signal processing bases and the Jacobi group. (English summary) **2004h:94021**
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Wicks, Michael C. *see* **Chen, Pinyuen**
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94A14 Modulation and demodulation

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Mitra, Urbashi *see* **Aktas, Emre**
Nowrouzian, Behrouz *see* **Wang, Luqing**
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94A15 Information theory, general [see also 62B10]

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Iglesias, Pablo A. *see* **Zang, Guoqiang**, **2004i:94028**
Johnson, Peter D., Jr. *see* **Hankerson, Darrel et al.**, **2004i:94027**
Kumar, Rahul *see* **Dhillon, Inderjit S. et al.**
Kuriyama, Ken *see* **Furuichi, Shigeru et al.**
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Mallela, Subramanyam *see* **Dhillon, Inderjit S. et al.**
Matúš, František *see* **Csiszár, Imre**, **2004g:94021**
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O'Sullivan, Joseph A. *see* **Moulin, Pierre**, **2004c:94058**
Peng, Chung-Kang *see* **Yang, Albert C.-C. et al.**, **2004k:94020**
Pippenger, Nicholas The inequalities of quantum information theory. (English summary) **2004f:94034**
Pods, Sonja *see* **Binz, Ernst et al.**, **2004g:94019**
Pötter, Clemens *see* **Sendhoff, Bernhard et al.**, (**2004i:00015**)
Rozhkova, Svetlana *see* **Dëmin, N. S. et al.**, **2004k:94018**
Safronova, Irina *see* **Dëmin, N. S. et al.**, **2004k:94018**
Salerni, Giulio On optimal fast solutions to the problem of gossiping by letters. (English summary) **2004m:94013**
Schempp, Walter J. *see* **Binz, Ernst et al.**, **2004g:94019**
Schulman, Leonard J. *see* **Ambainis, Andris et al.**, **2004k:94016**
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Sotiriadis, Paul Peter (*with* Tarokh, Vahid; Chandrakasan, Anantha P.) Energy reduction in VLSI computation modules: an information-theoretic approach. (English summary) **2004e:94016**
Szpankowski, Wojciech *see* **Flajolet, Philippe**, **2004m:94012**
Tarokh, Vahid *see* **Sotiriadis, Paul Peter et al.**, **2004e:94016**

Ta-Shma, Amnon *see* **Ambainis, Andris et al., 2004k:94016**
Topsøe, Flemming Maximum entropy versus minimum risk and applications to some classical discrete distributions. (English summary) **2004c:94059**
— *see also* Fedotov, Aleksei Anatol'evich et al., 2004f:94033
Vallée, Brigitte *see* **Chazal, Frédéric et al., 2004k:94017**
Vazirani, Umesh V. *see* **Ambainis, Andris et al., 2004k:94016**
Wigderson, Avi *see* **Ambainis, Andris et al., 2004k:94016**
Xing, Xiu San On dynamical statistical information theory. (Chinese. English and Chinese summaries) **2004k:94019**
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Allaria, E. *see* **Baptista, Murilo S. et al.**
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(Chaitin, Gregory J.) *see* **Calude, Cristian S., 2004g:68064**
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Chomaz, Philippe (*with* Gulminelli, Francesca) Phase transitions in finite systems. (English summary) (*see* **2004d:82001**)
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Czachor, Marek *see* **Aerts, Diederik, 2004m:68250**
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Dehaye, Paul-Olivier (*with* Ford, Daniel; Segerman, Henry) One hundred prisoners and a lightbulb. **2004g:00004**
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Dewar, Roderick Information theory explanation of the fluctuation theorem, maximum entropy production and self-organized criticality in non-equilibrium stationary states. (English summary) **2004c:82060**
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Dimitrov, Alexander G. *see* **Gedeon, Tomáš et al., 2004i:68045**
Dragomir, Sever Silvestru *see* **Barnett, Neil S. et al.,** (**2004j:00017**); (**2004m:60008**) *and* **Cerone, Pietro,** (**2004j:00017**)
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Feng, Jian Feng[1] *see* **Tuckwell, Henry C.**
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Hirvensalo, Mika (*with* Seibert, Sebastian) Lower bounds for Las Vegas automata by information theory. (English summary) **2004f:68078**
Horodecki, Karol *see* **Horodecki, Michałet al., 2004g:81018**
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Horodecki, Ryszard *see* **Horodecki, Michałet al., 2004g:81018**
Hui, Pak-ming *see* **Quan, Hong-Jun et al., 2004g:82128**
Ishai, Yuval *see* **Beimel, Amos**
Isola, Tommaso *see* **Gibilisco, Paolo, 2004i:81045**
Jackson, Wen-Ai (*with* Martin, Keith M.; O'Keefe, Christine M.) Geometrical contributions to secret sharing theory. (English summary) **2004m:94086**
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Kowalski, A. M. (*with* Plastino, Angel Luis; Proto, A. N.) Information theory and chaotic motion. (English summary)
Kumar, Panganamala Ramana *see* **Gupta, Piyush, 2004i:94003**
Kumar, Rajeev *see* **Singh, Ram Pal[2] et al., 2004g:94024**
Lee, Tony T. *see* **Yeung, Raymond W. et al., 2004b:94037**
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Lloyd, Seth *see* **Touchette, Hugo**
Lomonaco, Samuel J., Jr. A Rosetta Stone for quantum mechanics with an introduction to quantum computation. (English summary) (*see* **2004h:81070**)
Luo, Xiao-Shu *see* **Quan, Hong-Jun et al., 2004g:82128**
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Markovskaja, N. A. *see* **Polymenopoulos, Alex et al., (2004h:00017)**
Martin, Keith M. *see* **Jackson, Wen-Ai et al., 2004m:94086**
Maurer, Ueli *see* **Dziembowski, Stefan, 2004m:94046**
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Merhav, Neri *see* **Levitan, Evgeny, 2004c:62052**
Meucci, R. *see* **Baptista, Murilo S. et al.**
Mitter, Sanjoy K. *see* **Mennucci, Andrea C. G., 2004g:60001**
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Ohya, Masanori On quantum information and algorithm. (English summary) **2004m:81057**
O'Keefe, Christine M. *see* **Jackson, Wen-Ai et al., 2004m:94086**
Oppenheim, Jonathan *see* **Horodecki, Michałet al., 2004g:81018**
Pardo, María del Carmen (*with* Vajda, Igor) On asymptotic properties of information-theoretic divergences. (English summary) **2004d:94016**
Parker, Albert E. *see* **Gedeon, Tomáš et al., 2004i:68045**
Peres, Yuval *see* **Mossel, Elchanan, 2004e:60143**
Pinheiro, M. R. *see* **Barnett, Neil S. et al.,** (**2004j:00017**)
Plastino, Angel Luis *see* **Kowalski, A. M. et al.**
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Presnell, Stuart *see* **Jozsa, Richard, 2004m:81054**
Proto, A. N. *see* **Kowalski, A. M. et al.**
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Ramchandran, Kannan *see* **Pradhan, S. Sandeep et al., 2004f:94039**
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de Ruyter van Steveninck, Rob *see* **Rieke, Fred et al., 2004b:92014**

(Salomaa, Arto) *see* **Calude, Cristian S., 2004g:68064**
Scha, Remko *see* **Dastani, Mehdi, 2004e:91107**
Schindelin, Johannes E. *see* **Endres, Dominik M., 2004k:62024**
Segerman, Henry *see* **Dehaye, Paul-Olivier et al., 2004g:00004**
Seibert, Sebastian *see* **Hirvensalo, Mika, 2004f:68078**
Sellathurai, Mathini (*with* Foschini, Gerard J.) Stratified diagonal layered space-time architectures: signal processing and information theoretic aspects. (English summary) **2004i:94041**
Sen, Aditi *see* **Horodecki, Michałet al., 2004g:81018**
Sen, Ujjwal *see* **Horodecki, Michałet al., 2004g:81018**
Sengupta, Anirvan M. *see* **Moustakas, Aris L. et al., (2004h:94001)**
(Shannon, Claude E.) *see* **Solana-Ortega, Alberto, 2004a:01035**
Simon, Steven H. *see* **Moustakas, Aris L. et al., (2004h:94001)**
Singh, Ram Pal[2] (*with* Kumar, Rajeev; Tuteja, R. K.) Application of Holder's inequality in information theory. (English summary) **2004g:94024**
Sofo, Anthony *see* **Barnett, Neil S. et al., (2004j:00017)**
Solana-Ortega, Alberto The information revolution is yet to come (an homage to Claude E. Shannon). (English summary) **2004a:01035**
Soofi, Ehsan S. *see* **Ebrahimi, Nader**
van Tilborg, Henk C. A. *see* **Liu, Shengli et al., 2004f:94082**
Timpson, Christopher G. On a supposed conceptual inadequacy of the Shannon information in quantum mechanics. (English summary) **2004i:81013**
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Vajda, Igor *see* **Pardo, María del Carmen, 2004d:94016**
Vaudenay, Serge Decorrelation: a theory for block cipher security. (English summary) **2004m:94074**
Wang, Bing Hong[1] *see* **Quan, Hong-Jun et al., 2004g:82128**
Warland, David *see* **Rieke, Fred et al., 2004b:92014**
(Weaver, Warren) *see* **Solana-Ortega, Alberto, 2004a:01035**
Wornell, Gregory W. *see* **Barron, Richard J. et al., 2004f:94037**
Ye, Zhong Xing *see* **Yeung, Raymond W. et al., 2004b:94037**
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Zografos, K. *see* **Nadarajah, Saralees, 2004g:62017**

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Biography:
Shannon, Claude Elwood *see* **Solana-Ortega, Alberto, 2004a:01035**
From complexity to life ★ From complexity to life. **2004f:00007**

94A17 Measures of information, entropy

Agarwal, S. N. *see* **Varma, Sushama K. et al.**
Allegrini, Paolo (*with* Giuntoli, Martina; Grigolini, Paolo; West, Bruce J.) From knowledge, knowability and the search for objective randomness to a new vision of complexity. (English summary) **2004k:94021**
Barnett, Neil S. (*with* Cerone, Pietro; Dragomir, Sever Silvestru; Sofo, Anthony) Approximating two mappings associated to Csiszár f-divergence via Taylor's expansion. (English summary) **2004i:94029**
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Benatti, Fabio Classical and quantum entropies: dynamics and information. (English summary) **2004k:94022**
Bercher, J.-F. *see* **Vignat, C., 2004f:94036**
Cerone, Pietro *see* **Barnett, Neil S. et al., 2004i:94029** *and* **(2004m:60008)**
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Crutchfield, James P. (*with* Feldman, David P.) Regularities unseen, randomness observed: levels of entropy convergence. (English summary) **2004b:94031**
— *see also* **Feldman, David P., 2004f:94035**
Dhillon, Inderjit S. (*with* Mallela, Subramanyam; Kumar, Rahul) A divisive information-theoretic feature clustering algorithm for text classification. (English summary) **2004c:94017**
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— Upper and lower bounds for Csiszár f-divergence in terms of Hellinger discrimination and applications. (English summary) **2004a:94024**
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— A generalized f-divergence for probability vectors and applications.
— *see also* **Barnett, Neil S. et al., 2004i:94029** *and* **(2004m:60008)**
Dzakpasu, Rhonda *see* **Żochowski, Michał**
Fătu-Mihoc, Cristina Ioana *see* **Mihoc, Ion, 2004g:94023**
Feldman, David P. (*with* Crutchfield, James P.) Structural information in two-dimensional patterns: entropy convergence and excess entropy. (English summary) **2004f:94035**
— *see also* **Crutchfield, James P., 2004b:94031**
Fujiwara, Tsukasa (*with* Miyahara, Yoshio) The minimal entropy martingale measures for geometric Lévy processes. (English summary) **2004h:94027**
Giuntoli, Martina *see* **Allegrini, Paolo et al., 2004k:94021**
Gluščević, V. *see* **Dragomir, Sever Silvestru et al., 2004e:94018**
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Goodman, Tim N. T. *see* **Goh, Say Song, 2004m:94014**
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Gupta, Rameshwar D. (*with* Nanda, Asok K.) α- and β-entropies and relative entropies of distributions. (English summary) **2004g:94022**
He, Xin[4] *see* **Huang, Bing et al.**
Hong, Dug Hun (*with* Kim, Jang Han) Some formulae to calculate the entropies of the image fuzzy sets. (English summary)
Hooda, D. S. (*with* Ram, Anant) On a generalized R-norm entropy. (English summary) **2004h:94028**
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Huang, Bing (*with* He, Xin[4]; Zhou, Xian-Zhong) Rough entropy based on generalized rough sets covering reduction. (English and Chinese summaries)
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Jaroszewicz, Szymon *see* **Simovici, Dan A., 2004d:94018**
Joshi, Kiran Lata *see* **Varma, Sushama K.**
Kim, Dong Han The recurrence of blocks for Bernoulli processes. **2004b:94032**
Kim, Jang Han *see* **Hong, Dug Hun**
Knockaert, Luc On scale and concentration invariance in entropies. (English summary)
Kumar, Rahul *see* **Dhillon, Inderjit S. et al., 2004c:94017**
Kumar, Rajeev *see* **Singh, Ram Pal[2] et al., 2004g:94024**
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94A24 Coding theorems (Shannon theory)

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Tulino, Antonia Maria *see* **Lozano, Angel et al.**
Tuninetti, Daniela *see* **Caire, Giuseppe et al.**
Verdú, Sergio *see* **Reznik, Alex, 2004c:94074**; **Multiantenna channels: capacity, coding and signal processing. 2004h:94001**; **Lozano, Angel et al.** *and* **Caire, Giuseppe et al.**
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94A29 Source coding [see also 68P30]

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Effros, Michelle *see* **Zhao, Qian, 2004b:94045** *and* **Feng, Hanying^2, 2004f:94041**
Elad, Michael *see* **Donoho, David L., 2004c:94068**
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Mäkinen, Erkki *see* **Ţiplea, Ferucio Laurenţiu et al., 2004j:94018**
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Proios, G. *see* **Karanikas, C., 2004e:94022**
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Regunathan, Shankar L. *see* **Koulgi, Prashant et al., 2004b:94042** *and* **2004k:94033**
Rose, Kenneth *see* **Koulgi, Prashant et al., 2004b:94042**; **2004k:94033** *and* **Tuncel, Ertem, 2004b:94044**
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Dembo, Amir (*with* Weissman, Tsachy) The minimax distortion redundancy in noisy source coding. (English summary) **2004k:94036**
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Fong, W. C. (*with* Chan, Shing Chow; Nallanathan, Arumugam; Ho, K. L.) Integer-lapped transforms and their applications to image coding. (English summary) **2004c:94013**
Fonini, D. A., Jr. *see* **Craizer, M. et al., 2004e:94009**
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Konishi, Tatsumi Unitary subgroup space-time codes using Bruhat decomposition and Weyl groups. (English summary) **2004m:94104**
Kramer, Gerhard *see* **Venkataramani, Raman et al., 2004i:94038** *and* **ten Brink, Stephan**
Kumar, P. Vijay *see* **Lu, Hsiao-feng et al., 2004j:94039**
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Mouchard, Laurent *see* **Groult, Richard et al., 2004j:68146**
Nallanathan, Arumugam *see* **Fong, W. C. et al., 2004c:94013**
Nekrich, Yakov *see* **Berman, Piotr et al.**
Paulsen, Vern Ival *see* **Holmes, Roderick B., 2004j:42028**
Ram, Anant *see* **Hooda, D. S., 2004h:94028**
Rose, Kenneth *see* **Tuncel, Ertem, 2004g:94030**
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Tăbuş, Ioan *see* **Giurcăneanu, Ciprian Doru, 2004a:94005**
Trachtenberg, Ari *see* **Minsky, Yaron et al., 2004h:68011**
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Venkataramani, Raman (*with* Kramer, Gerhard; Goyal, Vivek K.) Multiple description coding with many channels. (English summary) **2004i:94038**
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Vitányi, Paul M. B. *see* **Li, Ming[1] et al., (2004a:68002)**
Wang, Yuankai *see* **Lu, Hsiao-feng et al., 2004j:94039**
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Woods, John W. *see* **Bajić, Ivan V., 2004f:94106**
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Yang, En-hui *see* **Jia, Yunwei**
Zippel, Richard *see* **Minsky, Yaron et al., 2004h:68011**

94A34 Rate-distortion theory

Dembo, Amir (*with* Weissman, Tsachy) The minimax distortion redundancy in noisy source coding. (English summary) **2004k:94036**
Goyal, Vivek K. *see* **Venkataramani, Raman et al., 2004i:94038**
Gray, Robert M. (*with* Linder, Tamás) Mismatch in high-rate entropy-constrained vector quantization. (English summary) **2004e:94026**
Kramer, Gerhard *see* **Venkataramani, Raman et al., 2004i:94038**
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Lawrance, Anthony J. (*with* Ohama, Gan) Exact calculation of bit error rates in communication systems with chaotic modulation. (English summary) **2004m:94020**
Linder, Tamás *see* **Gray, Robert M., 2004e:94026**
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94A40 Channel models

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Pires da Nóbrega Neto, Trajano *see* **Interlando, José Carmelo et al., 2004g:94034**
Poor, H. Vincent *see* **Jayaweera, Sudharman K.**
Proakis, John G. *see* **Bjerke, Bjørn A.**
Pursley, Michael B. *see* **Macdonald, Thomas G.**
Rabinovich, Mikhail I. *see* **Abarbanel, Henry D. I. et al.**
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Siegel, Paul H. *see* **Kurkoski, Brian M. et al.**
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Tugnait, Jitendra K. *see* **Ma, Jinghong, 2004b:94048**
Tulino, Antonia Maria *see* **Lozano, Angel et al.**
Tumer, Evren *see* **Abarbanel, Henry D. I. et al.**
Turitsyn, S. K. *see* **Boskolo, S. et al., (2004i:81006)**
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Yates, Roy *see* **Luo, Jianghong et al., 2004b:94047**
Yongaçoğlu, Abbas *see* **Haddad, Tariq, 2004c:94073**
Yu, Ji Wen *see* **Yanagi, Kenjiro et al., 2004m:94028**
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Guemghar, Souad *see* **Caire, Giuseppe et al., 2004m:94016**
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Hwang, Chan-Soo (*with* Nam, Seung Hoon; Chung, Jaehak; Tarokh, Vahid) Differential space time block codes using nonconstant modulus constellations. (English summary)
Imai, Hiroshi *see* **Fujiwara, Akio, 2004k:81198**
Jafar, Syed *see* **Vishwanath, Sriram et al., 2004k:94030** *and* **Jindal, Nihar et al., (2004h:94001)**
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Kabashima, Yoshiyuki *see* **Skantzos, N. S. et al.**
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— The capacity of the quantum depolarizing channel. (English summary) **2004c:94065**
— Maximal p-norms of entanglement breaking channels. (English summary) **2004c:81030**
Kötter, Ralf *see* **Jiang, Yibo et al.**
Kramer, Gerhard *see* **Venkataramani, Raman et al., 2004i:94038** *and* **Vishwanath, Sriram et al., 2004k:94030**
Kunisa, Akiomi Symbol error probability for guided scrambling over a recording channel. (English summary) **2004m:94114**
Lee, Hai-Woong *see* **Oh, Sangchu et al., 2004a:81062**
Lee, Soonchil *see* **Oh, Sangchu et al., 2004a:81062**
Leung, Debbie W. *see* **Bennett, Charles H. et al., 2004i:81041**
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Liu, K. J. Ray *see* **Su, Weifeng et al.**
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Marcus, Brian H. *see* **Chaichanavong, Panu, 2004e:94043**
Masry, Elias *see* **Dabeer, Onkar, 2004h:94002**
Matsumoto, Ryutaroh Conversion of a general quantum stabilizer code to an entanglement distillation protocol. (English summary) **2004h:81065**
Merhav, Neri (*with* Shamai, Shlomo) On joint source-channel coding for the Wyner-Ziv source and the Gel'fand-Pinsker channel. (English summary) **2004k:94034**
Milstein, Laurence B. *see* **Hou, Jilei et al.**
van Mourik, J. *see* **Skantzos, N. S. et al.**
Nagaoka, Hiroshi *see* **Hayashi, Masahito, 2004f:94038**
Nam, Seung Hoon *see* **Hwang, Chan-Soo et al.**
Ng, K. T. *see* **Wang, Bao-Yun et al.**
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Olfat, Masoud *see* **Su, Weifeng et al.**
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Orlitsky, Alon (*with* Viswanathan, Krishnamurthy) One-way communication and error-correcting codes. (English summary) **2004k:94097**
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Puri, Rohit *see* **Pradhan, S. Sandeep et al.**
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Ramchandran, Kannan *see* **Pradhan, S. Sandeep et al., 2004f:94039**
Riihonen, Taneli *see* **Östergård, Patric R. J., 2004k:05060**
Roumy, Aline *see* **Caire, Giuseppe et al., 2004m:94016**
Roy, Sumit *see* **Smith, Peter Jeffry et al.**
Ruskai, Mary Beth Qubit entanglement breaking channels. (English summary) **2004h:81038**
Saad, David *see* **Skantzos, N. S. et al.** *and* **Tanaka, Toshiyuki**
Safar, Zoltan *see* **Su, Weifeng et al.**
Sanders, Barry C. *see* **Berry, Dominic W., 2004k:94029**
Sasaki, Masahide *see* **Fuchs, Christopher A., 2004j:94024**
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Urbanke, Rüdiger *see* **Sason, Igal**, **2004f:94040**
Vaccaro, Ugo *see* **De Bonis, Annalisa**, **2004i:68010**
Valenzuela, Reinaldo *see* **Xu, Hao et al.**, (**2004h:94001**)
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Vinck, A. J. Han *see* **Häring, Jürgen**, **2004g:94018**
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Werner, Reinhard F. *see* **Gregoratti, M.**, **2004i:81028**
Westover, M. Brandon *see* **Fischer, Brian J.**, (**2004e:92001**)
Wornell, Gregory W. *see* **Barron, Richard J. et al.**, **2004f:94037**
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94A45 Prefix, length-variable, comma-free codes [see also 20M35, 68Q45]

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— Completing solid codes to maximal comma-free codes. (English summary) **2004b:94051**
Pelc, Andrzej *see* **Czyzowicz, Jurek et al.**, (**2004j:68013**)
Peng, Shou-Li *see* **Zhang, Liang et al.**, **2004h:94039**
Pott, Alexander *see* **Kyureghyan, Gohar M.**, **2004g:94036**
Rytter, Wojciech *see* **Czyzowicz, Jurek et al.**, (**2004j:68013**)
Sarda, K. L. *see* **Giri, R. D.**
Shum, K. P. *see* **Zhang, Liang et al.**, **2004d:94021** *and* **2004h:94039**
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Théberge, François *see* **Freiling, Christopher F. et al.**, **2004h:94037**
Zeger, Kenneth *see* **Freiling, Christopher F. et al.**, **2004h:94037**
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Zheng, Hong-Fen *see* **Zhang, Liang et al.**, **2004d:94021**
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Items with secondary classifications in 94A45

Allouche, Jean-Paul (*with* Shallit, Jeffrey) ★ Automatic sequences. **2004k:11028**
Antonini, Marc *see* **Loyer, Pierre et al.**, **2004e:94023**
Cai, Yanying *see* **Zhang, Rong Hua**, **2004k:68099**
Czyzowicz, Jurek (*with* Fraczak, Wojciech; Pelc, Andrzej; Rytter, Wojciech) Linear-time prime decomposition of regular prefix codes. (English summary) **2004k:68085**
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Jia, Weijia *see* **Long, Dongyang et al.**, **2004e:68027**
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Pelc, Andrzej *see* **Czyzowicz, Jurek et al.**, **2004k:68085**
Rytter, Wojciech *see* **Czyzowicz, Jurek et al.**, **2004k:68085**
Shallit, Jeffrey *see* **Allouche, Jean-Paul**, **2004k:11028**
Shyr, Huei-Jan *see* **Fan, Chen-Ming**, **2004k:68087**
Topsøe, Flemming Maximum entropy versus minimum risk and applications to some classical discrete distributions. (English summary) **2004c:94059**
Wang, Ping *see* **Dai, Zongduo et al.**, **2004g:11011**
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94A55 Shift register sequences and sequences over finite alphabets

Bollman, Dorothy *see* **Moreno, Oscar et al.**, **2004a:94036**
Dawson, Edward *see* **Golić, Jovan Dj. et al.**, **2004c:94076**
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Green, Peter Richard *see* **Green, D. H.**, **2004e:94028**
Hadinejad-Mahram, Hafez *see* **Lüke, H. Dieter et al.**
Han, Wen Bao *see* **Fan, Shu Qin**, **2004f:94051**
Helleseth, Tor Sequences with good correlations and some open problems. (English summary) **2004g:94038**
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— (*with* Khamidullin, S. A.) Recognition of a quasiperiodic sequence formed from a given number of truncated subsequences. (Russian. Russian summary) **2004c:94078**
Khamidullin, S. A. *see* **Kel'manov, A. V.**, **2004c:94078**
Kim, Sang-Hyo (*with* No, Jong-Seon) New families of binary sequences with low correlation. (English summary) **2004k:94044**
— *see also* **Helleseth, Tor et al.**, **2004f:94052**
Klapper, Andrew M. *see* **Goresky, Mark**, **2004i:94043**
Kolokotronis, Nicholas (*with* Kalouptsidis, Nicholas) On the linear complexity of nonlinearly filtered PN-sequences. (English summary) **2004k:94045**
Liang, Jing Ping *see* **Qiu, Wei Dun et al.**
Ling, San (*with* Solé, Patrick) Nonlinear p-ary sequences. (English summary) **2004g:94040**
Ludkovski, Michael (*with* Gong, Guang) New families of ideal 2-level autocorrelation ternary sequences from second order DHT. (English summary) **2004g:94041**
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2004a:94036
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Niederreiter, Harald Periodic sequences with large k-error linear complexity. (English summary) **2004b:94053**
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No, Jong-Seon (*with* Gil, Gang-Mi; Shin, Dong-Joon) Generalized construction of binary bent sequences with optimal correlation property. (English summary) **2004f:94053**
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Orozco, Edusmildo *see* **Moreno, Oscar et al., 2004a:94036**
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Pei, Dingyi *see* **Hu, Lei, 2004m:11204**
Phelps, Kevin T. *see* **Muse, William B., 2004k:51006**
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Sárközy, András *see* **Ahlswede, Rudolf et al., 2004j:11085**
Shparlinski, Igor E. *see* **Konyagin, Sergei et al., 2004c:94088**
Tonchev, Vladimir D. *see* **Jungnickel, Dieter, 2004h:94058**
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Vielhaber, Michael Continued fractions, difference equations, and Hausdorff dimensions. (English summary) **2004k:94062**
Winterhof, Arne *see* **Meidl, Wilfried, 2004h:11107**
Wolff, Rodney C. *see* **Lawrance, Anthony J., 2004j:37156**
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94A60 Cryptography [see also 11T71, 14G50, 68P25]

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Chang, Chin-Chen *see* **Chan, Chao-Wen** *and* **Wu, Hsien-Chu**
Changchien, S. Wesley *see* **Hwang, Min-Shiang et al., 2004f:94063**
Charatonik, Witold *see* **Amadio, Roberto M., (2004j:68004)**
Charnes, Christopher *see* **Solé, Patrick et al., 2004g:94060**
Charpin, Pascale *see* **Canteaut, Anne et al., 2004i:94046**
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Chernenkiy, Valery M. *see* **Ptitsyn, Nikolai V. et al., (2004d:28001)**
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D'Arco, Paolo (*with* Stinson, Douglas R.) Generalized zig-zag functions and oblivious transfer reductions. (English summary) **2004m:94043**
Das, Bireswar *see* **Siromoney, Rani, 2004b:94074**
Dastranj, Nader *see* **Bagheri, Mohammad et al., 2004e:94030**
Dawson, Edward (*with* Simpson, Leonie) Analysis and design issues for synchronous stream ciphers. (English summary) **2004c:94083**
— *see also* **Burnett, L. et al., 2004m:94036**
Debbabi, Mourad *see* **Adi, Kamel et al., 2004b:94054**
De Bonis, Annalisa (*with* De Santis, Alfredo) New results on the randomness of visual cryptography schemes. (English summary) **2004b:94058**
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Dénes, Tamás *see* **Dénes, József, 2004a:94038** *and* **2004g:94045**
Deng, Robert H. *see* **Wu, Hongjun et al.**
Deng, Yang Ming (*with* Du, Wei Zhang) Two kinds of public-key cryptosystems based on maximum rank distance codes. (Chinese. English and Chinese summaries) **2004g:94046**
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van Dijk, Marten *see* **Woodruff, David P., 2004c:94102**
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Du, Wei Zhang (*with* Chen, Ke Fei) Some new constructions on Cartesian authentication codes. (Chinese. English and Chinese summaries) **2004a:94039**
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Duan, Sheng Gui *see* **Li, Xiang Li et al.**
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Dziembowski, Stefan (*with* Maurer, Ueli) Optimal randomizer efficiency in the bounded-storage model. (English summary) **2004m:94046**
Ekdahl, Patrik (*with* Johansson, Thomas) Another attack on A5/1. (English summary) **2004b:94059**
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Encinas, A. Hernández *see* **Len, R. Díaz et al., 2004b:94065**
Englert, Berthold-Georg *see* **Beige, Almut et al., 2004j:94021**
Faïzullin, R. T. *see* **Prolubnikov, A. V., 2004b:94073**
Falaki, S. O. *see* **Adetunmbi, A. O.**
Fei, Ru-chun *see* **Wang, Li Na et al., 2004m:94078**
Feki, Moez (*with* Robert, Bruno; Gelle, Guillaume; Colas, Maxime) Secure digital communication using discrete-time chaos synchronization. (English summary)
Feng, Deng Guo *see* **Li, Hong Da**
Feng, Ke Qin (*with* Liu, Feng Mei) New results on the nonexistence of generalized bent functions. (English summary) **2004k:94051**
Feng, Xiu Tao *see* **Zhang, Huan Guo et al., 2004k:94064**
Feng, Zhengjin *see* **Hu, Guojie et al., 2004a:94047**
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Fiorini, Claudia (*with* Martinelli, Enrico; Massacci, Fabio) How to fake an RSA signature by encoding modular root finding as a SAT problem. (English summary) **2004h:94043**
Fischlin, Marc On the impossibility of constructing non-interactive statistically-secret protocols from any trapdoor one-way function. (English summary) (*see* **2004j:94027**)
— (*with* Fischlin, Roger) The representation problem based on factoring. (English summary) **2004m:94048**
Fischlin, Roger *see* **Fischlin, Marc, 2004m:94048**
Fisher, Benji N. *see* **Anshel, Iris et al., (2004m:11002)**
Fitz, Michael P. *see* **El Gamal, Hesham et al.**
Fluhrer, Scott (*with* Mantin, Itsik; Shamir, Adi) Weaknesses in the key scheduling algorithm of RC4. (English summary) **2004m:94049**
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Franklin, Matthew *see* **Boneh, Dan, 2004m:94035**
(Frey, Gerhard) *see* **Workshop: Cryptography**
Fuchs, Christopher A. (*with* Sasaki, Masahide) Squeezing quantum information through a classical channel: measuring the "quantumness" of a set of quantum states. (English summary) **2004j:94024**
Fúster-Sabater, A. Comments on: "A family of keystream generators with large linear complexity" [Appl. Math. Lett. **14** (2001), no. 5, 545–547] by L. J. García-Villalba and M. C. Rodríguez-Palánquex. (English summary)
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— *see also* **Shorin, Vitaly V. et al., 2004d:94029** *and* **Ourivski, A. V., 2004h:94044b**
Galbraith, Steven D. (*with* Hess, Florian; Smart, Nigel P.) Extending the GHS Weil descent attack. (English summary) **2004f:94060**
García-Martínez, Mario Alberto (*with* Morales-Luna, Guillermo) VHDL specification of a FPGA to divide and multiply in $GF(2^m)$. (English summary) (*see* **2004c:11003**)
(García-Villalba, L. J.) *see* **Fúster-Sabater, A.**
Ge, Jian Hua[2] *see* **Wang, Cai Fen[1]**
Gelle, Guillaume *see* **Feki, Moez et al.**
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Gentile, Giuseppe (*with* Migliorato, Renato) Hypergroupoids and cryptosystems. (English summary) **2004a:94040**
Gilbert, Gerald (*with* Hamrick, Michael) Secrecy, computational loads and rates in practical quantum cryptography. (English summary) **2004a:94041**
Gillard, Roland (*with* Leprévost, Franck; Panchishkin, A. A.; Roblot, Xavier-François)

Utilisation des modules de Drinfeld en cryptologie. (English and French summaries) [Using Drinfel′d modules in cryptology]

Goldfeld, Dorian *see* **Anshel, Iris et al.**, (**2004m:11002**)

Goldreich, Oded ★ Foundations of cryptography. (English summary) **2004a:94042**

Goldwasser, Shafi *see* **Micciancio, Daniele**, **2004m:94067**

Golić, Jovan Dj. (*with* Bagini, Vittorio; Morgari, Guglielmo) Linear cryptanalysis of Bluetooth stream cipher. (English summary) **2004c:94085**

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Gong, Guang (*with* Harn, Lein; Wu, Huapeng) The GH public-key cryptosystem. (English summary) **2004m:94051**

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González Vasco, María Isabel (*with* Shparlinski, Igor E.) On the security of Diffie-Hellman bits. (English summary) **2004a:94043**

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Hamrick, Michael *see* **Gilbert, Gerald**, **2004a:94041**

Han, Zheng Zhi *see* **Li, Chang Gang et al.**

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Jan, Jinn-Ke *see* **Chien, Hung-Yu et al.**, **2004b:94057**

Jandaghi, Gholamreza *see* **Bagheri, Mohammad et al.**, **2004e:94030**

Jang, Ji-Woong *see* **Kim, Young-Sik et al.**, **2004g:94052**

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Jiang, Zhong-Ping *see* **Zhang, Hao[5] et al.**, **2004j:94026**

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Kaneko, Toshinobu *see* **Tanaka, Hidema**

Kang, Changgoo *see* **Seo, Changho et al.**

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Kato, Kentaro (*with* Hirota, Osamu) Square-root measurement for quantum symmetric mixed state signals. (English summary)

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Keliher, Liam (*with* Meijer, Henk; Tavares, Stafford) Improving the upper bound on the maximum average linear hull probability for Rijndael. (English summary) **2004m:94059**

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Kinzel, Wolfgang *see* **Rosen-Zvi, Michal et al.**, **2004c:94099**

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Koprowski, Maciej *see* **Damgård, Ivan**, **2004f:94059**
Kotulski, Zbigniew Construction of block ciphers: new possibilities. (Polish) **2004j:94025**
(Kramer, David) *see* **Welschenbach, Michael**, **2004e:94036**
Krause, Matthias (*with* Simon, Hans Ulrich) Determining the optimal contrast for secret sharing schemes in visual cryptography. (English summary) **2004f:94065**
Krawczyk, Hugo *see* **Canetti, Ran**, (**2004k:94065**)
Ku, Cheng-Yuan *see* **Chen, Chien-Yuan et al.**, **2004k:94050**
Kuang, Jin-Yu *see* **Wang, Shihong[1] et al.**
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Kuregian, Melsik K. *see* **Khachatryan, G. G.[1] et al.**, (**2004k:94066**)
Kurosawa, Kaoru *see* **Iwata, Tetsu et al.**, **2004g:94050** *and* (**2004k:94066**)
Kurtsiefer, Christian *see* **Beige, Almut et al.**, **2004j:94021**
Kushilevitz, Eyal *see* **Ishai, Yuval**
Küsters, Ralf On the decidability of cryptographic protocols with open-ended data structures. (English summary) (*see* **2004j:68004**)
— *see also* **Chevalier, Yannick et al.**, **2004m:94038**
Lai, Ming-Chih *see* **Hsu, Ching-Hung**
Lamberger, Mario *see* **Wolkerstorfer, Johannes et al.**, (**2004j:94027**)
(Lando, Sergei) *see* **Cryptography: an introduction**, **2004c:94105**
Lange, Tanja *see* **Konyagin, Sergei et al.**, **2004c:94088**
Langford, John *see* **Hopper, Nicholas J. et al.**, (**2004k:94065**)
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Lee, Eonkyung *see* **Lee, Sang Jin**, **2004f:94067**
Lee, Hee-Jung *see* **Hong, Hyun-Soo et al.**, **2004a:94046**
Lee, Ho-Kyu *see* **Hong, Hyun-Soo et al.**, **2004a:94046**
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Lee, Seungyun *see* **Park, Kishik et al.**
Lee, Won-Ho *see* **Kim, Nam-Yeun et al.**
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— (*with* Verheul, Eric R.) Selecting cryptographic key sizes. (English summary) **2004d:94024**
Leprévost, Franck *see* **Gillard, Roland et al.**
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Li, Hai Tao *see* **Chen, Fan et al.**, **2004f:94056**
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Li, Li-Hua *see* **Lee, Cheng-Chi et al.**, **2004a:94050**
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— Characteristics of highly nonlinear functions. (English summary) **2004m:94061**
— Characteristics of highly nonlinear functions. (Hungarian. English and Hungarian summaries) **2004k:94055**
Lim, Jongin *see* **Lee, Seonhee et al.**, **2004b:94064** *and* **Park, Young Ho et al.**, **2004d:94026**
Lim, Seongan (*with* Kim, Seungjoo; Yie, Ikkwon; Kim, Jaemoon; Lee, Hongsub) XTR extended to $\mathrm{GF}(p^{6m})$. (English summary) **2004m:94062**
Lindell, Yehuda Parallel coin-tossing and constant-round secure two-party computation. (English summary) **2004f:94068**
Liskov, Moses (*with* Rivest, Ronald L.; Wagner, David A.) Tweakable block ciphers. (English summary) **2004m:94063**
Liu, Cai Xing *see* **Xiao, De Qin et al.**, **2004c:94103**
Liu, Dongsu *see* **Wei, Baodian et al.**
Liu, Feng Mei *see* **Feng, Ke Qin**, **2004k:94051**
Liu, Xinzhi *see* **Li, Yili et al.**
Liu, Youjian *see* **El Gamal, Hesham et al.**
Liu, Yu Zhen *see* **Zhang, Huan Guo et al.**, **2004k:94064**
Liu, Zhu *see* **Wang, Li Na et al.**, **2004m:94078**
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Loxton, John *see* **Said, Mohammad Rushdan Md.**, **2004f:94074**
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Lu, Hong Wen (*with* Sun, Yu Hua) A public-key cryptography using integral quaternions. (Chinese. English and Chinese summaries)
Lü, Hua-Ping *see* **Tang, Guoning et al.** *and* **Wang, Shihong[1] et al.**
Lucks, Stefan *see* **Fluhrer, Scott**, **2004m:94050**
Luo, Ping[1] *see* **Wang, Daoshun et al.**, **2004k:94063**
Luo, Wei Xiong *see* **Liang, Fu Lin et al.**
Luo, Yun-Lun *see* **Wang, Shihong[1] et al.**
Lynn, Ben *see* **Barreto, Paulo S. L. M. et al.**, **2004m:94031**
Lysyanskaya, Anna Unique signatures and verifiable random functions from the DH-DDH separation. (English summary) (*see* **2004k:94065**)
Ma, Heng Tai *see* **Wu, Wen Ling et al.**, **2004d:94032**
Magliveras, Spyros S. (*with* Stinson, Douglas R.; Tran Van Trung) New approaches to designing public key cryptosystems using one-way functions and trapdoors in finite groups. (English summary) **2004b:94068**
— Secret- and public-key cryptosystems from group factorizations. (English summary)
Maitra, Subhamoy Highly nonlinear balanced Boolean functions with very good autocorrelation property. (English summary) **2004g:94054**
— *see also* **Pasalic, Enes et al.**, **2004d:94027** *and* **2004m:94070**
Mantin, Itsik *see* **Fluhrer, Scott et al.**, **2004m:94049**
Mao, Wenbo Timed-release cryptography. (English summary) **2004m:94064**
Mao, Yaobin *see* **Chen, Guanrong et al.**, **2004m:94037**
Markovskaja, N. A. *see* **Polymenopoulos, Alex et al.**, (**2004h:00017**)
Markowitch, Olivier (*with* Saeednia, Shahrokh) Cryptanalysis of the Wu-Varadhrajan fair exchange protocol. (English summary) **2004g:94055**
Martin, Bruno *see* **Solé, Patrick et al.**, **2004g:94060**
Martinelli, Enrico *see* **Fiorini, Claudia et al.**, **2004h:94043**
Martineti, Gwenaëlle *see* **Joux, Antoine et al.**, (**2004k:94065**)
Martín Molleví, Sebastià *see* **Padró, Carles et al.**, **2004d:94025** *and* **2004g:94058**
Martirosyan, Sosina *see* **Tran Van Trung**, **2004k:94061**
Massacci, Fabio *see* **Fiorini, Claudia et al.**, **2004h:94043**
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— *see also* **Khachatryan, G. G.[1] et al.**, (**2004k:94066**)
Masucci, Barbara *see* **Blundo, Carlo et al.**, **2004m:94034**
Matsumoto, Tsutomu Detecting and revoking compromised keys. (English summary) **2004c:94093**
— *see also* **Koike, Masanobu**, **2004m:94060**
Maurer, Ueli Indistinguishability of random systems. (English summary) **2004f:94069**
— *see also* **Dziembowski, Stefan**, **2004m:94046**
May, Alexander Cryptanalysis of unbalanced RSA with small CRT-exponent. (English summary) **2004m:94065**
— *see also* **Blömer, Johannes**, **2004m:94033**
Meijer, Henk *see* **Keliher, Liam et al.**, **2004m:94059**
Mejri, Mohamed *see* **Adi, Kamel et al.**, **2004b:94054**
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Menezes, Alfred *see* **Brown, Daniel R. L.**, **2004a:94037** *and* **Law, Laurie et al.**, **2004c:94089**
Menicocci, Renato *see* **Golić, Jovan Dj.**, **2004b:94060**
Merhav, Neri A large-deviations notion of perfect secrecy. (English summary) **2004c:94094**
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Micali, Silvio (*with* Rivest, Ronald L.) Transitive signature schemes. (English summary) **2004m:94066**

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Migliorato, Renato *see* **Gentile, Giuseppe**, **2004a:94040**
Mihăilescu, Preda Security of biased sources for cryptographic keys. (English summary) **2004c:94095**
Millan, W. *see* **Burnett, L. et al.**, **2004m:94036**
Millen, Jonathan On the freedom of decryption. (English summary) **2004f:94070**
Mironov, Ilya (Not so) random shuffles of RC4. (English summary) **2004m:94068**
Mitchell, Chris J. *see* **Knudsen, Lars R.**, **2004d:94023** *and* **2004g:94053**
Mittenthal, Lothrop A method of deterministically generating block substitution tables which meet a given standard of nonlinearity. (English summary) **2004g:94056**
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Morgari, Guglielmo *see* **Golić, Jovan Dj. et al.**, **2004c:94085**
Morillo, Paz *see* **Padró, Carles et al.**, **2004d:94025** *and* **2004g:94058**
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Nonaka, Masao *see* **Miyaji, Atsuko et al.**, (**2004j:94027**)
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Patidar, Vinod *see* **Pareek, N. K. et al.**, **2004c:94097**
Peng, Jian Ping *see* **Li, Xiang Li et al.**
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Quick, Frank *see* **Hawkes, Philip et al.**, **2004m:94053**
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Robert, Bruno *see* **Feki, Moez et al.**
Roblot, Xavier-François *see* **Gillard, Roland et al.**
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Rose, Gregory G. *see* **Hawkes, Philip et al.**, **2004m:94053**
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Ruiz, I. Visus *see* **Len, R. Díaz et al.**, **2004b:94065**
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Scott, Michael Patrick John *see* **Barreto, Paulo S. L. M. et al.**, **2004m:94031**
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Shamir, Adi *see* **Fluhrer, Scott et al., 2004m:94049**
Shen, Chang Xiang *see* **Hu, Cheng Jun et al.**
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Sud, K. K. *see* **Pareek, N. K. et al., 2004c:94097**
Sun, Yu Hua *see* **Lu, Hong Wen**
Sung, Soo Hak *see* **Chun, Kilsoo et al.**
Szczepański, Janusz *see* **Amigó, J. M., 2004k:94048**
Takeshita, Oscar Yassuo *see* **El Gamal, Hesham et al.**
Takii, Yoshinori *see* **Miyaji, Atsuko et al., (2004j:94027)**
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Videau, Marion *see* **Canteaut, Anne et al., 2004c:94081**
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O'Sullivan, Joseph A. *see* **Moulin, Pierre, 2004c:94058**
Palaniyandi, P. *see* **Lakshmanan, M. et al., 2004h:37143**
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94A62 Authentication and secret sharing

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Maurer, Ueli *see* **Fehr, Serge, 2004m:94083**
Meisinger, Paul *see* **Gargano, Michael L. et al.**
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Parker, Matthew G. *see* **Sze, T. W. et al., 2004h:94052**
Paterson, Kenneth G. *see* **Galbraith, Steven D. et al., 2004m:94084**
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Poupard, Guillaume *see* **Pointcheval, David, 2004c:94109**
Preneel, Bart *see* **den Boer, Bert et al., (2004k:94066)**
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Rabin, Tal *see* **An, Jee Hea et al., 2004f:94079**
Ramamurthy, Byrav *see* **Zou, Xukai et al.**
Reyzin, Leonid *see* **Itkis, Gene, (2004k:94065)**
Rivest, Ronald L. *see* **Micali, Silvio, 2004m:94089**
Rowe, David J. *see* **Tyc, Tomáš et al.**
Saeednia, Shahrokh A note on Girault's self-certified model. (English summary) **2004g:94073**
Sáez, Germán Generation of key predistribution schemes using secret sharing schemes. (English summary) **2004d:94035**
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Sanders, Barry C. *see* **Tyc, Tomáš et al.**
Santos, David J. *see* **Pérez, Esther et al., 2004h:94051**
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Sen, Ujjwal *see* **Sen, Aditi et al., 2004k:94074**
Shacham, Hovav *see* **Boneh, Dan et al., 2004a:94051**
Shamir, Adi *see* **Halevy, Dani, 2004m:94085**
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Shelat, Abhi *see* **Peikert, Chris et al., (2004a:68002)**
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Šiška, Július *see* **Grošek, Otokar, 2004g:94066**
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Srebrny, Marian *see* **Soroczuk, Artur, 2004j:94029**
Stamatiou, Yannis C. *see* **Armeni, S. et al.**
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Sun, Hung-Min *see* **Hsieh, Bin-Tsan et al.** *and* **Yeh, Her-Tyan et al.**
Sun, Zhi Xin *see* **Wang, Ru Chuan et al., 2004b:94081**
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Szydlo, Michael *see* **Bresson, Emmanuel et al., 2004m:94081**
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Tan, Zuo-Wen (*with* Liu, Zhuo Jun; Tang, Chun-Ming) A proxy blind signature scheme based on DLP. (English and Chinese summaries)
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van Tilborg, Henk C. A. *see* **Liu, Shengli et al., 2004f:94082**

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Van Rompay, Bart *see* **den Boer, Bert et al., (2004k:94066)**
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Wenger, Jérôme *see* **Grosshans, Frédéric et al., 2004k:94070**
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Xing, Chaoping *see* **Wang, Huaxiong et al., 2004f:94085**
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Yung, Moti *see* **Kiayias, Aggelos**
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Zhang, Shao Jun *see* **Zheng, Ming Lei et al.**
Zhang, Xian-Mo *see* **Pieprzyk, Josef, 2004b:94080** *and* **2004f:94083**
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Björk, Gunnar *see* **Bourennane, Mohamed et al., 2004a:81046**
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Bub, Jeffrey *see* **Clifton, Robert K. et al., 2004k:81008**
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Dušek, Miloslav *see* **Brádler, Kamil**
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Gracia, Ignacio *see* **Padró, Carles et al., 2004d:94025** *and* **2004g:94058**
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Hwang, Shin-Jia *see* **Hwang, Min-Shiang et al.**
Inamori, Hitoshi Security of practical BB84 quantum key distribution. (English summary) **2004a:94048**
Ishai, Yuval *see* **Feigenbaum, Joan et al.**
Ispiryan, Karen R. *see* **Khachatryan, G. G.[1] et al., (2004k:94066)**
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Krawczyk, Hugo *see* **Canetti, Ran, (2004k:94065)**

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Lee, Ju-Hee *see* **Lee, Hyang-Sook et al.**, **2004b:94063**
Lee, Young-Ran *see* **Lee, Hyang-Sook et al.**, **2004b:94063**
Litsyn, Simon *see* **Cohen, Gérard Denis et al.**, **2004h:94054a** *and* **2004h:94054b**
Liu, Ping *see* **Peng, Rong et al.**
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Malkin, Tal *see* **Feigenbaum, Joan et al.**
Martín Molleví, Sebastià *see* **Padró, Carles et al.**, **2004d:94025** *and* **2004g:94058**
Martirosyan, Sosina *see* **Tran Van Trung**, **2004k:94061**
Massey, James L. *see* **Khachatryan, G. G.[1] et al.**, (**2004k:94066**)
Mejri, Mohamed *see* **Adi, Kamel et al.**, **2004b:94054**
Menezes, Alfred *see* **Brown, Daniel R. L.**, **2004a:94037**
Micali, Silvio (*with* Rivest, Ronald L.) Transitive signature schemes. (English summary) **2004m:94066**
Morillo, Paz *see* **Padró, Carles et al.**, **2004d:94025** *and* **2004g:94058**
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Ng, Siaw-Lynn A representation of a family of secret sharing matroids. (English summary) **2004k:05056**
Nissim, Kobbi *see* **Feigenbaum, Joan et al.**
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Padró, Carles (*with* Gracia, Ignacio; Martín Molleví, Sebastià; Morillo, Paz) Linear broadcast encryption schemes. (English summary) **2004d:94025**
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Perelli, Alberto *see* **Languasco, Alessandro**, (**2004d:00018**)
Pérez, Esther *see* **Curty, Marcos et al.**, **2004j:81035**
Persiano, Giuseppe *see* **Galdi, Clemente**, **2004c:68013**
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Salomaa, Arto *see* **Ding, Cun Sheng et al.**, (**2004j:94001**)
Santos, David J. *see* **Curty, Marcos et al.**, **2004j:81035**
Schaathun, Hans Georg *see* **Cohen, Gérard Denis et al.**, **2004h:94054a** *and* **2004h:94054b**
Shieh, ShiuhPyng Winston *see* **Lu, Cheng-Fen**, (**2004j:94027**)
Silverberg, Alice (*with* Staddon, Jessica; Walker, Judy L.) Applications of list decoding to tracing traitors. (English summary) **2004f:94075**
Solé, Patrick *see* **Ding, Cun Sheng et al.**, (**2004j:94001**)
Staddon, Jessica *see* **Silverberg, Alice et al.**, **2004f:94075**
Strauss, Martin Joel *see* **Feigenbaum, Joan et al.**
Thayer, F. Javier *see* **Guttman, Joshua D.**, **2004f:94062**
Tian, Xiaojian *see* **Ding, Cun Sheng et al.**, (**2004j:94001**)
Tran Van Trung (*with* Martirosyan, Sosina) On a class of traceability codes. (English summary) **2004k:94061**
Turuani, Mathieu *see* **Rusinowitch, Michaël**, **2004c:68055**
Tzeng, Shiang-Feng *see* **Hwang, Min-Shiang et al.**, **2004c:94086**
Ustimenko, Vasyl A. Graphs with special arcs and cryptography. (English summary) **2004e:94035**
Walker, Judy L. *see* **Silverberg, Alice et al.**, **2004f:94075**
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Zigangirov, Kamil Sh. *see* **Truhachev, Dmitri V. et al.**, **2004d:94047**

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Items with secondary classifications in 94B99

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94Cxx Circuits, networks

94C05 Analytic circuit theory

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Francisco, J. B. *see* **Barbosa, L. V. et al.**
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Mazurkevich, G. E. *see* **Hoppe, Ronald H. W. et al.**, (**2004d:00011**)
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Nagy, István *see* **Sütő, Zoltán**
Nakamura, Hiroshi *see* **Saito, Hiroshi et al.**
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Nanya, Takashi *see* **Saito, Hiroshi et al.**
Nayfeh, Ali Hasan *see* **Mazumder, Sudip K. et al.**, **2004f:94132**
Nefëdov, E. I. *see* **Aref'ev, A. S. et al.**, **2004c:94123**
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Ortega, Romeo *see* **Jeltsema, Dimitri et al.**, **2004i:94071**
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Petrova, Svetozara I. *see* **Hoppe, Ronald H. W. et al.**, (**2004d:00011**)
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Radovanović, S. *see* **Stojanović, V. et al.**, **2004h:94068**
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Schwarz, Angela *see* **Neubert, Rolf**, **2004a:94078** *and* **Bulirsch, Roland et al.**, (**2004d:00011**)
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Storace, Marco *see* **Lupini, Renzo et al.**, **2004f:94131**
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Meester, Ronald *see* **Booth, Lorna et al., 2004b:60026**
Ozón, Javier Universality of small-world networks. (Catalan. Catalan summary)
Pang, Jong-Shi (*with* Hobbs, Benjamin F.; Day, Christopher J.) Properties of oligopolistic market equilibria in linearized DC power networks with arbitrage and supply function conjectures. (English summary) **2004j:91016**
Parvatov, N. G. *see* **Agibalov, G. P., 2004e:06004**
Saèd, Aryan (*with* Ahmadi, Majid; Jullien, Graham A.) A number system with continuous valued digits and modulo arithmetic. (English summary)
Scherpen, Jacquelien M. A. (*with* Jeltsema, Dimitri; Klaassens, J. Ben) Lagrangian modeling of switching electrical networks. (English summary) **2004h:93007**
Schmiedle, Frank (*with* Günther, Wolfgang; Drechsler, Rolf) Dynamic re-encoding during MDD minimization. (English summary) **2004a:68011**
Shih, Sun-Jen *see* **Chen, Chiuyuan et al., 2004e:68078**
Shukla, Sandeep *see* **Irani, Sandy et al., (2004a:68002)**
Thiran, Patrick *see* **Le Boudec, Jean-Yves, 2004j:90030**
Tseng, Yu-Chee *see* **Yang, Ming-Hour et al., 2004c:68012**
Veitch, Darryl *see* **Hohn, Nicolas et al., 2004h:68149**
Verstraten, A. J. E. *see* **de Kock, E. A. et al., 2004i:90047**
Wang, Janet Meiling (*with* Chu, Chia Chi; Yu, Qingjian; Kuh, Ernest S.) On projection-based algorithms for model-order reduction of interconnects. (English summary) **2004a:93030**
Wang, Yu[3] (*with* Li, Xiang-Yang; Frieder, Ophir) Distributed spanners with bounded degree for wireless ad hoc networks. (English summary) **2004d:68126**
Wiesenfeld, Kurt *see* **Bennett, Matthew**
Wilhelm, Thomas (*with* Hänggi, Peter) Power-law distributions resulting from finite resources. (English summary)
Xiao, Wen Jun (*with* Gutman, Ivan M.) On resistance matrices. (English summary) **2004i:05104**
Xu, Hongbing *see* **Li, Chunguang et al., 2004m:37044**
Yang, Ming-Hour (*with* Tseng, Yu-Chee; Jian, Ming-Shian) Multi-node multicast in multi-dimensional wormhole tori and meshes with load balance. (English summary) **2004c:68012**
Yang, Suh-Yuh *see* **Hsu, Cheng-Hsiung, 2004j:34010**
Yin, Ming Hui *see* **Zou, Yun et al.**
Yu, Juebang *see* **Li, Chunguang et al., 2004m:37044**
Yu, Qingjian *see* **Wang, Janet Meiling et al., 2004a:93030**
Zhang, Jingyuan *see* **Fan, Guangbin, 2004c:68144**
Zhang, Wen Zhu *see* **Liu, Kai[3] et al.**
Zou, Yun (*with* Yin, Ming Hui; Chiang, Hsiao-Dong) Theoretical foundation of the controlling UEP method for direct transient-stability analysis of network-preserving power system models. (English summary)

Items listed otherwise than by author

Lecture Notes in Computer Science *see* **Le Boudec, Jean-Yves, 2004j:90030**

94D05 Fuzzy sets and logic [see also 03B52, 03E72, 28E10]

Jeong, Jae Ug Stability of a periodic solution for fuzzy differential equations. (English summary)

Items with secondary classifications in 94D05

Braga-Neto, Ulisses (*with* Goutsias, John) A theoretical tour of connectivity in image processing and analysis. (English summary) **2004g:68184**
Goutsias, John *see* **Braga-Neto, Ulisses, 2004g:68184**
Jun, Young Bae Fuzzy implicative ordered filters in implicative semigroups. (English summary)
Liu, Yong Lin (*with* Meng, Jie) Quotient BCK-algebra by a fuzzy BCK-filter. (English summary)
— Quotient groups induced by fuzzy subgroups. (English summary)
Meng, Jie *see* **Liu, Yong Lin**
Pyt'ev, Yu. P. *see* **Zhuchko, O. V., 2004e:60009**
Roh, Eun Hwan *see* **Zhu, Yi Quan et al.**
Takači, Aleksandar General aggregation operators acting on fuzzy numbers induced by ordinary aggregation operators. (English summary) **2004m:03192**
Zhang, Qun *see* **Zhu, Yi Quan et al.**
Zhu, Yi Quan (*with* Zhang, Qun; Roh, Eun Hwan) On fuzzy implicative filters of implicative systems. (English summary)
Zhuchko, O. V. (*with* Pyt'ev, Yu. P.) Reconstruction of a functional dependency by possibility-theoretic methods. (Russian. Russian summary) **2004e:60009**

97–XX Mathematics education

97–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 97–03

Delve, Janet The College of Preceptors and the Educational Times: changes for British mathematics education in the mid-nineteenth century. (English and French summaries) **2004e:01033**

Furinghetti, Fulvia Mathematical instruction in an international perspective: the contribution of the journal L'Enseignement Mathématique. (French summary) (*see* **2004f:00017**)

Howson, Albert Geoffrey Geometry: 1950–70. (French summary) (*see* **2004f:00017**)

Kahane, Jean-Pierre L'Enseignement du calcul différentiel et intégral au début du vingtième siècle. (English summary) [The teaching of differential calculus at the beginning of the twentieth century] (*see* **2004f:00017**)

Laborde, Colette Géométrie—période 2000 et après. (English summary) [Geometry from the year 2000 onwards] (*see* **2004f:00017**)

Siu, Man-Keung Learning and teaching of analysis in the mid twentieth century: a semi-personal observation. (French summary) (*see* **2004f:00017**)

Steen, Lynn Arthur Analysis 2000: challenges and opportunities. (French summary) (*see* **2004f:00017**)

97–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 97–06

(Coray, Daniel) *see* **One hundred years of L'Enseignement Mathématique, 2004f:00017**

(Furinghetti, Fulvia) *see* **One hundred years of L'Enseignement Mathématique, 2004f:00017**

(Gispert, Hélène) *see* **One hundred years of L'Enseignement Mathématique, 2004f:00017**

(Hodgson, Bernard R.) *see* **One hundred years of L'Enseignement Mathématique, 2004f:00017**

(Schubring, Gert) *see* **One hundred years of L'Enseignement Mathématique, 2004f:00017**

Items listed otherwise than by author

Geneva ★ One hundred years of L'Enseignement Mathématique. **2004f:00017**

One hundred years of L'Enseignement Mathématique ★ One hundred years of L'Enseignement Mathématique. **2004f:00017**

97Axx General

97Bxx Educational policy and educational systems

97B40 Higher education

Items with secondary classifications in 97B40

Krantz, Steven G. ★ A mathematician's survival guide. **2004h:00007**

97Cxx Psychology of and research in mathematics education

97C30 Student learning and thinking (misconceptions, cognitive development, problem solving, etc.)

Items with secondary classifications in 97C30

Bodner, Mark (*with* Shaw, Gordon L.) Symmetry math video game used to train profound spatial-temporal reasoning abilities equivalent to dynamical knot theory. (English summary) (*see* **2004k:00026**)

Shaw, Gordon L. *see* **Bodner, Mark**, (**2004k:00026**)

97C50 Theoretical perspectives (learning theories, epistemology, philosophies of teaching and learning, etc.) [see also 97D20]

Items with secondary classifications in 97C50

Brown, Anne *see* **Weller, Kirk et al.**

Dubinsky, Ed *see* **Weller, Kirk et al.**

McDonald, Michael A. *see* **Weller, Kirk et al.**

Stenger, Cynthia *see* **Weller, Kirk et al.**

Weller, Kirk (*with* Brown, Anne; Dubinsky, Ed; McDonald, Michael A.; Stenger, Cynthia) Intimations of infinity.

97Dxx Education and instruction in mathematics

97D20 Philosophical and theoretical contributions to mathematical education [see also 97C50]

Items with secondary classifications in 97D20

Grattan-Guinness, Ivor History or heritage? An important distinction in mathematics and for mathematics education. **2004k:01002**

97D40 Teaching methods and classroom techniques. Lesson preparation. Educational principles {For research aspects see 97Cxx.}

Items with secondary classifications in 97D40

Berlinghoff, William P. (*with* Gouvêa, Fernando Q.) ★ Math through the ages. **2004j:01006**

Dyke, P. P. G. ★ Managing mathematical projects—with success!

Gouvêa, Fernando Q. *see* **Berlinghoff, William P., 2004j:01006**

97D50 Teaching problem solving and heuristic strategies {For research aspects see 97Cxx.}

Items with secondary classifications in 97D50

Lodder, Gerald M. Curvature in the calculus curriculum.

97D99 None of the above, but in this section

Items with secondary classifications in 97D99

Chen, Falai *see* **Li, Shang Zhi et al., 2004b:00002**

(E, Weinan) *see* **Li, Shang Zhi et al., 2004b:00002**

Li, Shang Zhi (*with* Chen, Falai; Wu, Yao Hua[1]; Zhang, Yunhua) ★ Mathematics experiments. **2004b:00002**

Wu, Yao Hua[1] *see* **Li, Shang Zhi et al., 2004b:00002**

Zhang, Yunhua *see* **Li, Shang Zhi et al., 2004b:00002**

97Uxx Educational material and media. Educational technology

97U70 Technological tools (computers, calculators, software, etc.) and their use in the classroom

Items with secondary classifications in 97U70

Schumann, Heinz A dynamic approach to "simple" algebraic curves. I. (English summary)

Items listed otherwise than by author

2000 MATHEMATICS SUBJECT CLASSIFICATION

Compiled in the Editorial Offices of MATHEMATICAL REVIEWS and ZENTRALBLATT MATH

TABLE OF CONTENTS

00 General
01 History and biography
03 Mathematical logic and foundations
05 Combinatorics
06 Order, lattices, ordered algebraic structures
08 General algebraic systems
11 Number theory
12 Field theory and polynomials
13 Commutative rings and algebras
14 Algebraic geometry
15 Linear and multilinear algebra; matrix theory
16 Associative rings and algebras
17 Nonassociative rings and algebras
18 Category theory; homological algebra
19 K-theory
20 Group theory and generalizations
22 Topological groups, Lie groups
26 Real functions
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables and analytic spaces
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
37 Dynamical systems and ergodic theory
39 Difference and functional equations
40 Sequences, series, summability
41 Approximations and expansions
42 Fourier analysis
43 Abstract harmonic analysis
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations and optimal control; optimization
51 Geometry
52 Convex and discrete geometry
53 Differential geometry
54 General topology
55 Algebraic topology
57 Manifolds and cell complexes
58 Global analysis, analysis on manifolds
60 Probability theory and stochastic processes
62 Statistics
65 Numerical analysis
68 Computer science
70 Mechanics of particles and systems
74 Mechanics of deformable solids
76 Fluid mechanics
78 Optics, electromagnetic theory
80 Classical thermodynamics, heat transfer
81 Quantum theory
82 Statistical mechanics, structure of matter
83 Relativity and gravitational theory
85 Astronomy and astrophysics
86 Geophysics
90 Operations research, mathematical programming
91 Game theory, economics, social and behavioral sciences
92 Biology and other natural sciences
93 Systems theory; control
94 Information and communication, circuits
97 Mathematics education

Mathematics Subject Classification 2000

Mathematics Subject Classification 2000 (MSC2000)

This is a reprint of MSC2000, which has been in use at MR starting with the January 2000 issue. MSC2000 was first printed in the Annual Index for 1999 together with a brief summary of the changes from the 1991 MSC. Conversion tables are available at the AMS website, www.ams.org.

How to use the Mathematics Subject Classification [MSC]

The main purpose of the classification of items in the mathematical literature using the Mathematics Subject Classification scheme is to help users find the items of present or potential interest to them as readily as possible—in products derived from the Mathematical Reviews Database (MRDB), in Zentralblatt MATH, or anywhere else where this classification scheme is used. An item in the mathematical literature should be classified so as to attract the attention of all those possibly interested in it. The item may be something which falls squarely within one clear area of the MSC, or it may involve several areas. Ideally, the MSC codes attached to an item should represent the subjects to which the item contains a contribution. The classification should serve both those closely concerned with specific subject areas, and those familiar enough with subjects to apply their results and methods elsewhere, inside or outside of mathematics. It will be extremely useful for both users and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every item in the MRDB receives precisely one *primary* classification, which is simply the MSC code that describes its principal contribution. When an item contains several principal contributions to different areas, the primary classification should cover the most important among them. A paper or book may be assigned one or several secondary classification numbers to cover any remaining principal contributions, ancillary results, motivation or origin of the matters discussed, intended or potential field of application, or other significant aspects worthy of notice.

The principal contribution is meant to be the one including the most important part of the work actually done in the item. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, would have a primary classification in 05C (Graph Theory) with one or more secondary classifications in 68 (Computer Science); conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

There are two types of cross-references given at the end of many of the entries in the MSC. The first type is in braces: "{For A, see X}"; if this appears in section Y, it means that contributions described by A should usually be assigned the classification code X, not Y. The other type of cross-reference merely points out related classifications; it is in brackets: "[See also ...]", "[See mainly ...]", etc., and the classification codes listed in the brackets may, but need not, be included in the classification codes of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier must judge which classification is the most appropriate for the paper at hand.

00–XX GENERAL
- 00–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 00–02 Research exposition (monographs, survey articles)
- **00Axx General and miscellaneous specific topics**
- 00A05 General mathematics
- 00A06 Mathematics for nonmathematicians (engineering, social sciences, etc.)
- 00A07 Problem books
- 00A08 Recreational mathematics [See also 97A20]
- 00A15 Bibliographies
- 00A17 External book reviews
- 00A20 Dictionaries and other general reference works
- 00A22 Formularies
- 00A30 Philosophy of mathematics [See also 03A05]
- 00A35 Methodology of mathematics, didactics [See also 97Cxx, 97Dxx]
- 00A69 General applied mathematics {For physics, see 00A79 and Sections 70 through 86}
- 00A71 Theory of mathematical modeling
- 00A72 General methods of simulation
- 00A73 Dimensional analysis
- 00A79 Physics (use more specific entries from Sections 70 through 86 when possible)
- 00A99 Miscellaneous topics
- **00Bxx Conference proceedings and collections of papers**
- 00B05 Collections of abstracts of lectures
- 00B10 Collections of articles of general interest
- 00B15 Collections of articles of miscellaneous specific content
- 00B20 Proceedings of conferences of general interest
- 00B25 Proceedings of conferences of miscellaneous specific interest
- 00B30 Festschriften
- 00B50 Volumes of selected translations
- 00B55 Miscellaneous volumes of translations
- 00B60 Collections of reprinted articles [See also 01A75]

01–XX HISTORY AND BIOGRAPHY [See also the classification number –03 in the other sections]
- 01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 01–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 01–02 Research exposition (monographs, survey articles)
- 01–06 Proceedings, conferences, collections, etc.
- 01–08 Computational methods
- **01Axx History of mathematics and mathematicians**
- 01A05 General histories, source books
- 01A07 Ethnomathematics, general
- 01A10 Paleolithic, Neolithic
- 01A12 Indigenous cultures of the Americas
- 01A13 Other indigenous cultures (non-European)
- 01A15 Indigenous European cultures (pre-Greek, etc.)
- 01A16 Egyptian
- 01A17 Babylonian
- 01A20 Greek, Roman
- 01A25 China
- 01A27 Japan
- 01A29 Southeast Asia
- 01A30 Islam (Medieval)
- 01A32 India
- 01A35 Medieval
- 01A40 15th and 16th centuries, Renaissance
- 01A45 17th century
- 01A50 18th century
- 01A55 19th century
- 01A60 20th century
- 01A61 Twenty-first century
- 01A65 Contemporary
- 01A67 Future prospectives
- 01A70 Biographies, obituaries, personalia, bibliographies
- 01A72 Schools of mathematics
- 01A73 Universities
- 01A74 Other institutions and academies
- 01A75 Collected or selected works; reprintings or translations of classics [See also 00B60]
- 01A80 Sociology (and profession) of mathematics
- 01A85 Historiography
- 01A90 Bibliographic studies
- 01A99 Miscellaneous topics

03–XX MATHEMATICAL LOGIC AND FOUNDATIONS
- 03–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 03–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 03–02 Research exposition (monographs, survey articles)
- 03–03 Historical (must also be assigned at least one classification number from Section 01)
- 03–04 Explicit machine computation and programs (not the theory of computation or programming)
- 03–06 Proceedings, conferences, collections, etc.
- **03A05 Philosophical and critical {For philosophy of mathematics, see also 00A30}**
- **03Bxx General logic**
- 03B05 Classical propositional logic
- 03B10 Classical first-order logic
- 03B15 Higher-order logic and type theory
- 03B20 Subsystems of classical logic (including intuitionistic logic)
- 03B22 Abstract deductive systems

03B25 Decidability of theories and sets of sentences [See also 11U05, 12L05, 20F10]
03B30 Foundations of classical theories (including reverse mathematics) [See also 03F35]
03B35 Mechanization of proofs and logical operations [See also 68T15]
03B40 Combinatory logic and lambda-calculus [See also 68N18]
03B42 Logic of knowledge and belief
03B44 Temporal logic
03B45 Modal logic {For knowledge and belief see 03B42; for temporal logic see 03B44; for provability logic see also 03F45}
03B47 Substructural logics (including relevance, entailment, linear logic, Lambek calculus, BCK and BCI logics) {For proof-theoretic aspects see 03F52}
03B48 Probability and inductive logic [See also 60A05]
03B50 Many-valued logic
03B52 Fuzzy logic; logic of vagueness [See also 68T27, 68T37, 94D05]
03B53 Logics admitting inconsistency (paraconsistent logics, discussive logics, etc.)
03B55 Intermediate logics
03B60 Other nonclassical logic
03B65 Logic of natural languages [See also 68T50, 91F20]
03B70 Logic in computer science [See also 68–XX]
03B80 Other applications of logic
03B99 None of the above, but in this section

03Cxx Model theory

03C05 Equational classes, universal algebra [See also 08Axx, 08Bxx, 18C05]
03C07 Basic properties of first-order languages and structures
03C10 Quantifier elimination, model completeness and related topics
03C13 Finite structures [See also 68Q15, 68Q19]
03C15 Denumerable structures
03C20 Ultraproducts and related constructions
03C25 Model-theoretic forcing
03C30 Other model constructions
03C35 Categoricity and completeness of theories
03C40 Interpolation, preservation, definability
03C45 Classification theory, stability and related concepts
03C50 Models with special properties (saturated, rigid, etc.)
03C52 Properties of classes of models
03C55 Set-theoretic model theory
03C57 Effective and recursion-theoretic model theory [See also 03D45]
03C60 Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
03C62 Models of arithmetic and set theory [See also 03Hxx]
03C64 Model theory of ordered structures; o-minimality
03C65 Models of other mathematical theories
03C68 Other classical first-order model theory
03C70 Logic on admissible sets
03C75 Other infinitary logic
03C80 Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48]
03C85 Second- and higher-order model theory
03C90 Nonclassical models (Boolean-valued, sheaf, etc.)
03C95 Abstract model theory
03C98 Applications of model theory [See also 03C60]
03C99 None of the above, but in this section

03Dxx Computability and recursion theory

03D03 Thue and Post systems, etc.
03D05 Automata and formal grammars in connection with logical questions [See also 68Q45, 68Q70, 68R15]
03D10 Turing machines and related notions [See also 68Q05]
03D15 Complexity of computation [See also 68Q15, 68Q17]
03D20 Recursive functions and relations, subrecursive hierarchies
03D25 Recursively (computably) enumerable sets and degrees
03D28 Other Turing degree structures
03D30 Other degrees and reducibilities
03D35 Undecidability and degrees of sets of sentences
03D40 Word problems, etc. [See also 06B25, 08A50, 20F10, 68R15]
03D45 Theory of numerations, effectively presented structures [See also 03C57; for intuitionistic and similar approaches see 03F55]
03D50 Recursive equivalence types of sets and structures, isols
03D55 Hierarchies
03D60 Computability and recursion theory on ordinals, admissible sets, etc.
03D65 Higher-type and set recursion theory
03D70 Inductive definability
03D75 Abstract and axiomatic computability and recursion theory
03D80 Applications of computability and recursion theory
03D99 None of the above, but in this section

03Exx Set theory

03E02 Partition relations
03E04 Ordered sets and their cofinalities; pcf theory
03E05 Other combinatorial set theory
03E10 Ordinal and cardinal numbers
03E15 Descriptive set theory [See also 28A05, 54H05]
03E17 Cardinal characteristics of the continuum
03E20 Other classical set theory (including functions, relations, and set algebra)
03E25 Axiom of choice and related propositions
03E30 Axiomatics of classical set theory and its fragments
03E35 Consistency and independence results
03E40 Other aspects of forcing and Boolean-valued models
03E45 Inner models, including constructibility, ordinal definability, and core models
03E47 Other notions of set-theoretic definability
03E50 Continuum hypothesis and Martin's axiom
03E55 Large cardinals
03E60 Determinacy principles
03E65 Other hypotheses and axioms
03E70 Nonclassical and second-order set theories
03E72 Fuzzy set theory
03E75 Applications of set theory
03E99 None of the above, but in this section

03Fxx Proof theory and constructive mathematics

03F03 Proof theory, general
03F05 Cut-elimination and normal-form theorems
03F07 Structure of proofs
03F10 Functionals in proof theory
03F15 Recursive ordinals and ordinal notations
03F20 Complexity of proofs
03F25 Relative consistency and interpretations
03F30 First-order arithmetic and fragments
03F35 Second- and higher-order arithmetic and fragments [See also 03B30]
03F40 Gödel numberings in proof theory
03F45 Provability logics and related algebras (e.g., diagonalizable algebras) [See also 03B45, 03G25, 06E25]
03F50 Metamathematics of constructive systems
03F52 Linear logic and other substructural logics [See also 03B47]
03F55 Intuitionistic mathematics
03F60 Constructive and recursive analysis [See also 03B30, 03D45, 26E40, 46S30, 47S30]
03F65 Other constructive mathematics [See also 03D45]
03F99 None of the above, but in this section

03Gxx Algebraic logic

03G05 Boolean algebras [See also 06Exx]
03G10 Lattices and related structures [See also 06Bxx]
03G12 Quantum logic [See also 06C15, 81P10]
03G15 Cylindric and polyadic algebras; relation algebras
03G20 Łukasiewicz and Post algebras [See also 06D25, 06D30]
03G25 Other algebras related to logic [See also 03F45, 06D20, 06E25, 06F35]
03G30 Categorical logic, topoi [See also 18B25, 18C05, 18C10]
03G99 None of the above, but in this section

03Hxx Nonstandard models [See also 03C62]

03H05 Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]
03H10 Other applications of nonstandard models (economics, physics, etc.)
03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05]
03H99 None of the above, but in this section

05–XX COMBINATORICS {For finite fields, see 11Txx}

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
05–01 Instructional exposition (textbooks, tutorial papers, etc.)
05–02 Research exposition (monographs, survey articles)
05–03 Historical (must also be assigned at least one classification number from Section 01)
05–04 Explicit machine computation and programs (not the theory of computation or programming)
05–06 Proceedings, conferences, collections, etc.

05Axx Enumerative combinatorics

05A05 Combinatorial choice problems (subsets, representatives, permutations)
05A10 Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
05A15 Exact enumeration problems, generating functions [See also 33Cxx, 33Dxx]
05A16 Asymptotic enumeration
05A17 Partitions of integers [See also 11P81, 11P82, 11P83]
05A18 Partitions of sets
05A19 Combinatorial identities
05A20 Combinatorial inequalities
05A30 q-calculus and related topics [See also 03Dxx]
05A40 Umbral calculus
05A99 None of the above, but in this section

05Bxx Designs and configurations {For applications of design theory, see 94C30}

05B05 Block designs [See also 51E05, 62K10]
05B07 Triple systems

05B10 Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
05B15 Orthogonal arrays, Latin squares, Room squares
05B20 Matrices (incidence, Hadamard, etc.)
05B25 Finite geometries [See also 51D20, 51Exx]
05B30 Other designs, configurations [See also 51E30]
05B35 Matroids, geometric lattices [See also 52B40, 90C27]
05B40 Packing and covering [See also 11H31, 52C15, 52C17]
05B45 Tessellation and tiling problems [See also 52C20, 52C22]
05B50 Polyominoes
05B99 None of the above, but in this section
05Cxx Graph theory {For applications of graphs, see 68R10, 90C35, 94C15}
05C05 Trees
05C07 Degree sequences
05C10 Topological graph theory, imbedding [See also 57M15, 57M25]
05C12 Distance in graphs
05C15 Coloring of graphs and hypergraphs
05C17 Perfect graphs
05C20 Directed graphs (digraphs), tournaments
05C22 Signed, gain and biased graphs
05C25 Graphs and groups [See also 20F65]
05C30 Enumeration of graphs and maps
05C35 Extremal problems [See also 90C35]
05C38 Paths and cycles [See also 90B10]
05C40 Connectivity
05C45 Eulerian and Hamiltonian graphs
05C50 Graphs and matrices
05C55 Generalized Ramsey theory
05C60 Isomorphism problems (reconstruction conjecture, etc.)
05C62 Graph representations (geometric and intersection representations, etc.)
05C65 Hypergraphs
05C69 Dominating sets, independent sets, cliques
05C70 Factorization, matching, covering and packing
05C75 Structural characterization of types of graphs
05C78 Graph labelling (graceful graphs, bandwidth, etc.)
05C80 Random graphs
05C83 Graph minors
05C85 Graph algorithms [See also 68R10, 68W05]
05C90 Applications
05C99 None of the above, but in this section
05Dxx Extremal combinatorics
05D05 Extremal set theory
05D10 Ramsey theory
05D15 Transversal (matching) theory
05D40 Probabilistic methods
05D99 None of the above, but in this section
05Exx Algebraic combinatorics
05E05 Symmetric functions
05E10 Tableaux, representations of the symmetric group [See also 20C30]
05E15 Combinatorial problems concerning the classical groups [See also 22E45, 33C80]
05E20 Group actions on designs, geometries and codes
05E25 Group actions on posets and homology groups of posets [See also 06A11]
05E30 Association schemes, strongly regular graphs
05E35 Orthogonal polynomials [See also 33C45, 33C50, 33D45]
05E99 None of the above, but in this section

06–XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35]
06–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
06–01 Instructional exposition (textbooks, tutorial papers, etc.)
06–02 Research exposition (monographs, survey articles)
06–03 Historical (must also be assigned at least one classification number from Section 01)
06–04 Explicit machine computation and programs (not the theory of computation or programming)
06–06 Proceedings, conferences, collections, etc.
06Axx Ordered sets
06A05 Total order
06A06 Partial order, general
06A07 Combinatorics of partially ordered sets
06A11 Algebraic aspects of posets [See also 05E25]
06A12 Semilattices [See also 20M10; for topological semilattices see 22A26]
06A15 Galois correspondences, closure operators
06A99 None of the above, but in this section
06Bxx Lattices [See also 03G10]
06B05 Structure theory
06B10 Ideals, congruence relations
06B15 Representation theory
06B20 Varieties of lattices
06B23 Complete lattices, completions
06B25 Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10]
06B30 Topological lattices, order topologies [See also 06F30, 22A26, 54F05, 54H12]
06B35 Continuous lattices and posets, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]
06B99 None of the above, but in this section
06Cxx Modular lattices, complemented lattices
06C05 Modular lattices, Desarguesian lattices
06C10 Semimodular lattices, geometric lattices
06C15 Complemented lattices, orthocomplemented lattices and posets [See also 03G12, 81P10]
06C20 Complemented modular lattices, continuous geometries
06C99 None of the above, but in this section
06Dxx Distributive lattices
06D05 Structure and representation theory
06D10 Complete distributivity
06D15 Pseudocomplemented lattices
06D20 Heyting algebras [See also 03G25]
06D22 Frames, locales {For topological questions see 54–XX}
06D25 Post algebras [See also 03G20]
06D30 De Morgan algebras, Łukasiewicz algebras [See also 03G20]
06D35 MV-algebras
06D50 Lattices and duality
06D72 Fuzzy lattices (soft algebras) and related topics
06D99 None of the above, but in this section
06Exx Boolean algebras (Boolean rings) [See also 03G05]
06E05 Structure theory
06E10 Chain conditions, complete algebras
06E15 Stone space and related constructions
06E20 Ring-theoretic properties [See also 16E50, 16G30]
06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.) [See also 03G25, 03F45]
06E30 Boolean functions [See also 94C10]
06E99 None of the above, but in this section
06Fxx Ordered structures
06F05 Ordered semigroups and monoids [See also 20Mxx]
06F07 Quantales
06F10 Noether lattices
06F15 Ordered groups [See also 20F60]
06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80}
06F30 Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
06F35 BCK-algebras, BCI-algebras [See also 03G25]
06F99 None of the above, but in this section

08–XX GENERAL ALGEBRAIC SYSTEMS
08–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
08–01 Instructional exposition (textbooks, tutorial papers, etc.)
08–02 Research exposition (monographs, survey articles)
08–03 Historical (must also be assigned at least one classification number from Section 01)
08–04 Explicit machine computation and programs (not the theory of computation or programming)
08–06 Proceedings, conferences, collections, etc.
08Axx Algebraic structures [See also 03C05]
08A02 Relational systems, laws of composition
08A05 Structure theory
08A30 Subalgebras, congruence relations
08A35 Automorphisms, endomorphisms
08A40 Operations, polynomials, primal algebras
08A45 Equational compactness
08A50 Word problems [See also 03D40, 06B25, 20F10, 68R15]
08A55 Partial algebras
08A60 Unary algebras
08A62 Finitary algebras
08A65 Infinitary algebras
08A68 Heterogeneous algebras
08A70 Applications of universal algebra in computer science
08A72 Fuzzy algebraic structures
08A99 None of the above, but in this section
08Bxx Varieties [See also 03C05]
08B05 Equational logic, Mal′cev (Mal′tsev) conditions
08B10 Congruence modularity, congruence distributivity
08B15 Lattices of varieties
08B20 Free algebras
08B25 Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]

08B26 Subdirect products and subdirect irreducibility
08B30 Injectives, projectives
08B99 None of the above, but in this section
08Cxx Other classes of algebras
08C05 Categories of algebras [See also 18C05]
08C10 Axiomatic model classes [See also 03Cxx, in particular 03C60]
08C15 Quasivarieties
08C99 None of the above, but in this section

11–XX NUMBER THEORY
11–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
11–01 Instructional exposition (textbooks, tutorial papers, etc.)
11–02 Research exposition (monographs, survey articles)
11–03 Historical (must also be assigned at least one classification number from Section 01)
11–04 Explicit machine computation and programs (not the theory of computation or programming)
11–06 Proceedings, conferences, collections, etc.
11Axx Elementary number theory {For analogues in number fields, see 11R04}
11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors
11A07 Congruences; primitive roots; residue systems
11A15 Power residues, reciprocity
11A25 Arithmetic functions; related numbers; inversion formulas
11A41 Primes
11A51 Factorization; primality
11A55 Continued fractions {For approximation results, see 11J70} [See also 11K50, 30B70, 40A15]
11A63 Radix representation; digital problems {For metric results, see 11K16}
11A67 Other representations
11A99 None of the above, but in this section
11Bxx Sequences and sets
11B05 Density, gaps, topology
11B13 Additive bases [See also 05B10]
11B25 Arithmetic progressions [See also 11N13]
11B34 Representation functions
11B37 Recurrences {For applications to special functions, see 33–XX}
11B39 Fibonacci and Lucas numbers and polynomials and generalizations
11B50 Sequences (mod m)
11B57 Farey sequences; the sequences $1^k, 2^k, \cdots$
11B65 Binomial coefficients; factorials; q-identities [See also 05A10, 05A30]
11B68 Bernoulli and Euler numbers and polynomials
11B73 Bell and Stirling numbers
11B75 Other combinatorial number theory
11B83 Special sequences and polynomials
11B85 Automata sequences
11B99 None of the above, but in this section
11Cxx Polynomials and matrices
11C08 Polynomials [See also 13F20]
11C20 Matrices, determinants [See also 15A36]
11C99 None of the above, but in this section
11Dxx Diophantine equations [See also 11Gxx, 14Gxx]
11D04 Linear equations
11D09 Quadratic and bilinear equations
11D25 Cubic and quartic equations
11D41 Higher degree equations; Fermat's equation
11D45 Counting solutions of Diophantine equations
11D57 Multiplicative and norm form equations
11D59 Thue-Mahler equations
11D61 Exponential equations
11D68 Rational numbers as sums of fractions
11D72 Equations in many variables [See also 11P55]
11D75 Diophantine inequalities [See also 11J25]
11D79 Congruences in many variables
11D85 Representation problems [See also 11P55]
11D88 p-adic and power series fields
11D99 None of the above, but in this section
11Exx Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}
11E04 Quadratic forms over general fields
11E08 Quadratic forms over local rings and fields
11E10 Forms over real fields
11E12 Quadratic forms over global rings and fields
11E16 General binary quadratic forms
11E20 General ternary and quaternary quadratic forms; forms of more than two variables
11E25 Sums of squares and representations by other particular quadratic forms
11E39 Bilinear and Hermitian forms
11E41 Class numbers of quadratic and Hermitian forms
11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
11E57 Classical groups [See also 14Lxx, 20Gxx]
11E70 K-theory of quadratic and Hermitian forms
11E72 Galois cohomology of linear algebraic groups [See also 20G10]
11E76 Forms of degree higher than two
11E81 Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]
11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66]
11E95 p-adic theory
11E99 None of the above, but in this section
11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with quadratic forms, see 11E45}
11F03 Modular and automorphic functions
11F06 Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]
11F11 Modular forms, one variable
11F12 Automorphic forms, one variable
11F20 Dedekind eta function, Dedekind sums
11F22 Relationship to Lie algebras and finite simple groups
11F23 Relations with algebraic geometry and topology
11F25 Hecke-Petersson operators, differential operators (one variable)
11F27 Theta series; Weil representation
11F30 Fourier coefficients of automorphic forms
11F32 Modular correspondences, etc.
11F33 Congruences for modular and p-adic modular forms [See also 14G20, 22E50]
11F37 Forms of half-integer weight; nonholomorphic modular forms
11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
11F46 Siegel modular groups and their modular and automorphic forms
11F50 Jacobi forms
11F52 Modular forms associated to Drinfel′d modules
11F55 Other groups and their modular and automorphic forms (several variables)
11F60 Hecke-Petersson operators, differential operators (several variables)
11F66 Dirichlet series and functional equations in connection with modular forms
11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols
11F70 Representation-theoretic methods; automorphic representations over local and global fields
11F72 Spectral theory; Selberg trace formula
11F75 Cohomology of arithmetic groups
11F80 Galois representations
11F85 p-adic theory, local fields [See also 14G20, 22E50]
11F99 None of the above, but in this section
11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
11G05 Elliptic curves over global fields [See also 14H52]
11G07 Elliptic curves over local fields [See also 14G20, 14H52]
11G09 Drinfel′d modules; higher-dimensional motives, etc. [See also 14L05]
11G10 Abelian varieties of dimension > 1 [See also 14Kxx]
11G15 Complex multiplication and moduli of abelian varieties [See also 14K22]
11G16 Elliptic and modular units [See also 11R27]
11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
11G20 Curves over finite and local fields [See also 14H25]
11G25 Varieties over finite and local fields [See also 14G15, 14G20]
11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [See also 14H25]
11G35 Varieties over global fields [See also 14G25]
11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [See also 14G10]
11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
11G50 Heights [See also 14G40]
11G55 Polylogarithms and relations with K-theory
11G99 None of the above, but in this section
11Hxx Geometry of numbers {For applications in coding theory, see 94B75}
11H06 Lattices and convex bodies [See also 11P21, 52C05, 52C07]
11H16 Nonconvex bodies
11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
11H46 Products of linear forms
11H50 Minima of forms
11H55 Quadratic forms (reduction theory, extreme forms, etc.)
11H56 Automorphism groups of lattices
11H60 Mean value and transfer theorems
11H71 Relations with coding theory
11H99 None of the above, but in this section
11Jxx Diophantine approximation, transcendental number theory [See also 11K60]
11J04 Homogeneous approximation to one number
11J06 Markov and Lagrange spectra and generalizations

11J13 Simultaneous homogeneous approximation, linear forms
11J17 Approximation by numbers from a fixed field
11J20 Inhomogeneous linear forms
11J25 Diophantine inequalities [See also 11D75]
11J54 Small fractional parts of polynomials and generalizations
11J61 Approximation in non-Archimedean valuations
11J68 Approximation to algebraic numbers
11J70 Continued fractions and generalizations [See also 11A55, 11K50]
11J71 Distribution modulo one [See also 11K06]
11J72 Irrationality; linear independence over a field
11J81 Transcendence (general theory)
11J82 Measures of irrationality and of transcendence
11J83 Metric theory
11J85 Algebraic independence; Gel′fond's method
11J86 Linear forms in logarithms; Baker's method
11J89 Transcendence theory of elliptic and abelian functions
11J91 Transcendence theory of other special functions
11J93 Transcendence theory of Drinfel′d and t-modules
11J95 Results involving abelian varieties
11J97 Analogues of methods in Nevanlinna theory (work of Vojta et al.)
11J99 None of the above, but in this section

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms
11K06 General theory of distribution modulo 1 [See also 11J71]
11K16 Normal numbers, radix expansions, etc. [See also 11A63]
11K31 Special sequences
11K36 Well-distributed sequences and other variations
11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
11K41 Continuous, p-adic and abstract analogues
11K45 Pseudo-random numbers; Monte Carlo methods
11K50 Metric theory of continued fractions [See also 11A55, 11J70]
11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99, 28Dxx]
11K60 Diophantine approximation [See also 11Jxx]
11K65 Arithmetic functions [See also 11Nxx]
11K70 Harmonic analysis and almost periodicity
11K99 None of the above, but in this section

11Lxx Exponential sums and character sums {For finite fields, see 11Txx}
11L03 Trigonometric and exponential sums, general
11L05 Gauss and Kloosterman sums; generalizations
11L07 Estimates on exponential sums
11L10 Jacobsthal and Brewer sums; other complete character sums
11L15 Weyl sums
11L20 Sums over primes
11L26 Sums over arbitrary intervals
11L40 Estimates on character sums
11L99 None of the above, but in this section

11Mxx Zeta and L-functions: analytic theory
11M06 $\zeta(s)$ and $L(s,\chi)$
11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$
11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses
11M35 Hurwitz and Lerch zeta functions
11M36 Selberg zeta functions and regularized determinants; applications to spectral theory, Dirichlet series, Eisenstein series, etc. Explicit formulas
11M38 Zeta and L-functions in characteristic p
11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72}
11M45 Tauberian theorems [See also 40E05]
11M99 None of the above, but in this section

11Nxx Multiplicative number theory
11N05 Distribution of primes
11N13 Primes in progressions [See also 11B25]
11N25 Distribution of integers with specified multiplicative constraints
11N30 Turán theory [See also 30Bxx]
11N32 Primes represented by polynomials; other multiplicative structure of polynomial values
11N35 Sieves
11N36 Applications of sieve methods
11N37 Asymptotic results on arithmetic functions
11N45 Asymptotic results on counting functions for algebraic and topological structures
11N56 Rate of growth of arithmetic functions
11N60 Distribution functions associated with additive and positive multiplicative functions
11N64 Other results on the distribution of values or the characterization of arithmetic functions
11N69 Distribution of integers in special residue classes
11N75 Applications of automorphic functions and forms to multiplicative problems [See also 11Fxx]
11N80 Generalized primes and integers
11N99 None of the above, but in this section

11Pxx Additive number theory; partitions
11P05 Waring's problem and variants
11P21 Lattice points in specified regions
11P32 Goldbach-type theorems; other additive questions involving primes
11P55 Applications of the Hardy-Littlewood method [See also 11D85]
11P70 Inverse problems of additive number theory
11P81 Elementary theory of partitions [See also 05A17]
11P82 Analytic theory of partitions
11P83 Partitions; congruences and congruential restrictions
11P99 None of the above, but in this section

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15}
11R04 Algebraic numbers; rings of algebraic integers
11R06 PV-numbers and generalizations; other special algebraic numbers
11R09 Polynomials (irreducibility, etc.)
11R11 Quadratic extensions
11R16 Cubic and quartic extensions
11R18 Cyclotomic extensions
11R20 Other abelian and metabelian extensions
11R21 Other number fields
11R23 Iwasawa theory
11R27 Units and factorization
11R29 Class numbers, class groups, discriminants
11R32 Galois theory
11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [See also 20C10]
11R34 Galois cohomology [See also 12Gxx, 16H05, 19A31]
11R37 Class field theory
11R39 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55]
11R42 Zeta functions and L-functions of number fields [See also 11M41, 19F27]
11R44 Distribution of prime ideals [See also 11N05]
11R45 Density theorems
11R47 Other analytic theory [See also 11Nxx]
11R52 Quaternion and other division algebras: arithmetic, zeta functions
11R54 Other algebras and orders, and their zeta and L-functions [See also 11S45, 16H05, 16Kxx]
11R56 Adèle rings and groups
11R58 Arithmetic theory of algebraic function fields [See also 14–XX]
11R60 Cyclotomic function fields (class groups, Bernoulli objects, etc.)
11R65 Class groups and Picard groups of orders
11R70 K-theory of global fields [See also 19Fxx]
11R80 Totally real and totally positive fields [See also 12J15]
11R99 None of the above, but in this section

11Sxx Algebraic number theory: local and p-adic fields
11S05 Polynomials
11S15 Ramification and extension theory
11S20 Galois theory
11S23 Integral representations
11S25 Galois cohomology [See also 12Gxx, 16H05]
11S31 Class field theory; p-adic formal groups [See also 14L05]
11S37 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E50]
11S40 Zeta functions and L-functions [See also 11M41, 19F27]
11S45 Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16H05, 16Kxx]
11S70 K-theory of local fields [See also 19Fxx]
11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)
11S85 Other nonanalytic theory
11S90 Prehomogeneous vector spaces
11S99 None of the above, but in this section

11Txx Finite fields and commutative rings (number-theoretic aspects)
11T06 Polynomials
11T22 Cyclotomy
11T23 Exponential sums
11T24 Other character sums and Gauss sums
11T30 Structure theory
11T55 Arithmetic theory of polynomial rings over finite fields
11T60 Finite upper half-planes
11T71 Algebraic coding theory; cryptography
11T99 None of the above, but in this section

11Uxx Connections with logic
11U05 Decidability [See also 03B25]
11U07 Ultraproducts [See also 03C20]
11U09 Model theory [See also 03Cxx]
11U10 Nonstandard arithmetic [See also 03H15]
11U99 None of the above, but in this section

11Yxx Computational number theory [See also 11–04]
11Y05 Factorization
11Y11 Primality
11Y16 Algorithms; complexity [See also 68Q25]
11Y35 Analytic computations
11Y40 Algebraic number theory computations
11Y50 Computer solution of Diophantine equations
11Y55 Calculation of integer sequences
11Y60 Evaluation of constants
11Y65 Continued fraction calculations
11Y70 Values of arithmetic functions; tables
11Y99 None of the above, but in this section
11Z05 Miscellaneous applications of number theory

12–XX FIELD THEORY AND POLYNOMIALS
12–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
12–01 Instructional exposition (textbooks, tutorial papers, etc.)
12–02 Research exposition (monographs, survey articles)
12–03 Historical (must also be assigned at least one classification number from Section 01)
12–04 Explicit machine computation and programs (not the theory of computation or programming)
12–06 Proceedings, conferences, collections, etc.
12Dxx Real and complex fields
12D05 Polynomials: factorization
12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15}
12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [See also 11Exx]
12D99 None of the above, but in this section
12Exx General field theory
12E05 Polynomials (irreducibility, etc.)
12E10 Special polynomials
12E12 Equations
12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45, 16Kxx]
12E20 Finite fields (field-theoretic aspects)
12E25 Hilbertian fields; Hilbert's irreducibility theorem
12E30 Field arithmetic
12E99 None of the above, but in this section
12Fxx Field extensions
12F05 Algebraic extensions
12F10 Separable extensions, Galois theory
12F12 Inverse Galois theory
12F15 Inseparable extensions
12F20 Transcendental extensions
12F99 None of the above, but in this section
12Gxx Homological methods (field theory)
12G05 Galois cohomology [See also 14F22, 16H05, 16K50]
12G10 Cohomological dimension
12G99 None of the above, but in this section
12Hxx Differential and difference algebra
12H05 Differential algebra [See also 13Nxx]
12H10 Difference algebra [See also 39Axx]
12H20 Abstract differential equations [See also 34Mxx]
12H25 p-adic differential equations [See also 11S80, 14G20]
12H99 None of the above, but in this section
12Jxx Topological fields
12J05 Normed fields
12J10 Valued fields
12J12 Formally p-adic fields
12J15 Ordered fields
12J17 Topological semifields
12J20 General valuation theory [See also 13A18]
12J25 Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
12J99 None of the above, but in this section
12Kxx Generalizations of fields
12K05 Near-fields [See also 16Y30]
12K10 Semifields [See also 16Y60]
12K99 None of the above, but in this section
12Lxx Connections with logic
12L05 Decidability [See also 03B25]
12L10 Ultraproducts [See also 03C20]
12L12 Model theory [See also 03C60]
12L15 Nonstandard arithmetic [See also 03H15]
12L99 None of the above, but in this section
12Y05 Computational aspects of field theory and polynomials

13–XX COMMUTATIVE RINGS AND ALGEBRAS
13–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
13–01 Instructional exposition (textbooks, tutorial papers, etc.)
13–02 Research exposition (monographs, survey articles)
13–03 Historical (must also be assigned at least one classification number from Section 01)
13–04 Explicit machine computation and programs (not the theory of computation or programming)
13–06 Proceedings, conferences, collections, etc.
13Axx General commutative ring theory
13A02 Graded rings [See also 16W50]
13A05 Divisibility
13A10 Radical theory
13A15 Ideals; multiplicative ideal theory
13A18 Valuations and their generalizations [See also 12J20]
13A30 Associated graded rings of ideals (Rees ring, form ring), analytic spread and related topics
13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p; tight closure [See also 13B22]
13A50 Actions of groups on commutative rings; invariant theory [See also 14L24]
13A99 None of the above, but in this section
13Bxx Ring extensions and related topics
13B02 Extension theory
13B05 Galois theory
13B10 Morphisms
13B21 Integral dependence
13B22 Integral closure of rings and ideals [See also 13A35]; integrally closed rings, related rings (Japanese, etc.)
13B24 Going up; going down; going between
13B25 Polynomials over commutative rings [See also 11C08, 13F20, 13M10]
13B30 Quotients and localization
13B35 Completion [See also 13J10]
13B40 Étale and flat extensions; Henselization; Artin approximation [See also 13J15, 14B12, 14B25]
13B99 None of the above, but in this section
13Cxx Theory of modules and ideals
13C05 Structure, classification theorems
13C10 Projective and free modules and ideals [See also 19A13]
13C11 Injective and flat modules and ideals
13C12 Torsion modules and ideals
13C13 Other special types
13C14 Cohen-Macaulay modules [See also 13H10]
13C15 Dimension theory, depth, related rings (catenary, etc.)
13C20 Class groups [See also 11R29]
13C40 Linkage, complete intersections and determinantal ideals [See also 14M06, 14M10, 14M12]
13C99 None of the above, but in this section
13Dxx Homological methods {For noncommutative rings, see 16Exx; for general categories, see 18Gxx}
13D02 Syzygies and resolutions
13D03 (Co)homology of commutative rings and algebras (e.g., Hochschild, André-Quillen, cyclic, dihedral, etc.)
13D05 Homological dimension
13D07 Homological functors on modules (Tor, Ext, etc.)
13D10 Deformations and infinitesimal methods [See also 14B10, 14B12, 14D15, 32Gxx]
13D15 Grothendieck groups, K-theory [See also 14C35, 18F30, 19Axx, 19D50]
13D22 Homological conjectures (intersection theorems)
13D25 Complexes
13D30 Torsion theory [See also 13C12, 18E40]
13D40 Hilbert-Samuel and Hilbert-Kunz functions; Poincaré series
13D45 Local cohomology [See also 14B15]
13D99 None of the above, but in this section
13Exx Chain conditions, finiteness conditions
13E05 Noetherian rings and modules
13E10 Artinian rings and modules, finite-dimensional algebras
13E15 Rings and modules of finite generation or presentation; number of generators
13E99 None of the above, but in this section
13Fxx Arithmetic rings and other special rings
13F05 Dedekind, Prüfer and Krull rings and their generalizations
13F07 Euclidean rings and generalizations
13F10 Principal ideal rings
13F15 Factorial rings, unique factorization domains [See also 14M05]
13F20 Polynomial rings and ideals; rings of integer-valued polynomials [See also 11C08, 13B25]
13F25 Formal power series rings [See also 13J05]
13F30 Valuation rings [See also 13A18]
13F40 Excellent rings
13F45 Seminormal rings

13F50 Rings with straightening laws, Hodge algebras
13F55 Face and Stanley-Reisner rings; simplicial complexes [See also 55U10]
13F99 None of the above, but in this section
13G05 Integral domains
13Hxx Local rings and semilocal rings
13H05 Regular local rings
13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
13H15 Multiplicity theory and related topics [See also 14C17]
13H99 None of the above, but in this section
13Jxx Topological rings and modules [See also 16W60, 16W80]
13J05 Power series rings [See also 13F25]
13J07 Analytical algebras and rings [See also 32B05]
13J10 Complete rings, completion [See also 13B35]
13J15 Henselian rings [See also 13B40]
13J20 Global topological rings
13J25 Ordered rings [See also 06F25]
13J30 Real algebra [See also 12D15, 14Pxx]
13J99 None of the above, but in this section
13K05 Witt vectors and related rings
13L05 Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx}
13M05 Structure
13M10 Polynomials
13M99 None of the above, but in this section
13Nxx Differential algebra [See also 12H05, 14F10]
13N05 Modules of differentials
13N10 Rings of differential operators and their modules [See also 16S32, 32C38]
13N15 Derivations
13N99 None of the above, but in this section
13Pxx Computational aspects of commutative algebra [See also 68W30]
13P05 Polynomials, factorization [See also 12Y05]
13P10 Polynomial ideals, Gröbner bases [See also 13F20]
13P99 None of the above, but in this section

14–XX ALGEBRAIC GEOMETRY
14–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
14–01 Instructional exposition (textbooks, tutorial papers, etc.)
14–02 Research exposition (monographs, survey articles)
14–03 Historical (must also be assigned at least one classification number from Section 01)
14–04 Explicit machine computation and programs (not the theory of computation or programming)
14–06 Proceedings, conferences, collections, etc.
14Axx Foundations
14A05 Relevant commutative algebra [See also 13–XX]
14A10 Varieties and morphisms
14A15 Schemes and morphisms
14A20 Generalizations (algebraic spaces, stacks)
14A22 Noncommutative algebraic geometry
14A25 Elementary questions
14A99 None of the above, but in this section
14Bxx Local theory
14B05 Singularities [See also 14E15, 14H20, 14J17, 32Sxx, 58Kxx]
14B07 Deformations of singularities [See also 14D15, 32S30]
14B10 Infinitesimal methods [See also 13D10]
14B12 Local deformation theory, Artin approximation, etc. [See also 13B40, 13D10]
14B15 Local cohomology [See also 13D45, 32C36]
14B20 Formal neighborhoods
14B25 Local structure of morphisms: étale, flat, etc. [See also 13B40]
14B99 None of the above, but in this section
14Cxx Cycles and subschemes
14C05 Parametrization (Chow and Hilbert schemes)
14C15 Chow groups and rings
14C17 Intersection theory, characteristic classes, intersection multiplicities [See also 13H15]
14C20 Divisors, linear systems, invertible sheaves
14C21 Pencils, nets, webs [See also 53A60]
14C22 Picard groups
14C25 Algebraic cycles
14C30 Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
14C34 Torelli problem [See also 32G20]
14C35 Applications of methods of algebraic K-theory [See also 19Exx]
14C40 Riemann-Roch theorems [See also 19E20, 19L10]
14C99 None of the above, but in this section
14Dxx Families, fibrations
14D05 Structure of families (Picard-Lefschetz, monodromy, etc.)
14D06 Fibrations, degenerations
14D07 Variation of Hodge structures [See also 32G20]
14D10 Arithmetic ground fields (finite, local, global)
14D15 Formal methods; deformations [See also 13D10, 14B07, 32Gxx]
14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13}
14D21 Applications of vector bundles and moduli spaces in mathematical physics (twistor theory, instantons, quantum field theory)
14D22 Fine and coarse moduli spaces
14D99 None of the above, but in this section
14Exx Birational geometry
14E05 Rational and birational maps
14E07 Birational automorphisms, Cremona group and generalizations
14E08 Rationality questions
14E15 Global theory and resolution of singularities [See also 14B05, 32S20, 32S45]
14E20 Coverings [See also 14H30]
14E22 Ramification problems [See also 11S15]
14E25 Embeddings
14E30 Minimal model program (Mori theory, extremal rays)
14E99 None of the above, but in this section
14Fxx (Co)homology theory [See also 13Dxx]
14F05 Vector bundles, sheaves, related constructions [See also 14H60, 14J60, 18F20, 32Lxx, 46M20]
14F10 Differentials and other special sheaves [See also 13Nxx, 32C38]
14F17 Vanishing theorems [See also 32L20]
14F20 Étale and other Grothendieck topologies and cohomologies
14F22 Brauer groups of schemes [See also 12G05, 16K50]
14F25 Classical real and complex cohomology
14F30 p-adic cohomology, crystalline cohomology
14F35 Homotopy theory; fundamental groups [See also 14H30]
14F40 de Rham cohomology [See also 14C30, 32C35, 32L10]
14F42 Motivic cohomology
14F43 Other algebro-geometric (co)homologies (e.g., intersection, equivariant, Lawson, Deligne (co)homologies)
14F45 Topological properties
14F99 None of the above, but in this section
14Gxx Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]
14G05 Rational points
14G10 Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
14G15 Finite ground fields
14G20 Local ground fields
14G22 Rigid analytic geometry
14G25 Global ground fields
14G27 Other nonalgebraically closed ground fields
14G32 Universal profinite groups (relationship to moduli spaces, projective and moduli towers, Galois theory)
14G35 Modular and Shimura varieties [See also 11F41, 11F46, 11G18]
14G40 Arithmetic varieties and schemes; Arakelov theory; heights [See also 11G50]
14G50 Applications to coding theory and cryptography [See also 94A60, 94B27, 94B40]
14G99 None of the above, but in this section
14Hxx Curves
14H05 Algebraic functions; function fields [See also 11R58]
14H10 Families, moduli (algebraic)
14H15 Families, moduli (analytic) [See also 30F10, 32Gxx]
14H20 Singularities, local rings [See also 13Hxx, 14B05]
14H25 Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
14H30 Coverings, fundamental group [See also 14E20, 14F35]
14H37 Automorphisms
14H40 Jacobians, Prym varieties [See also 32G20]
14H42 Theta functions; Schottky problem [See also 14K25, 32G20]
14H45 Special curves and curves of low genus
14H50 Plane and space curves
14H51 Special divisors (gonality, Brill-Noether theory)
14H52 Elliptic curves [See also 11G05, 11G07, 14Kxx]
14H55 Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
14H60 Vector bundles on curves and their moduli [See also 14D20, 14F05]
14H70 Relationships with integrable systems
14H81 Relationships with physics
14H99 None of the above, but in this section
14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx}
14J10 Families, moduli, classification: algebraic theory
14J15 Moduli, classification: analytic theory; relations with modular forms [See also 32G13]
14J17 Singularities [See also 14B05, 14E15]
14J20 Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
14J25 Special surfaces {For Hilbert modular surfaces, see 14G35}
14J26 Rational and ruled surfaces
14J27 Elliptic surfaces
14J28 $K3$ surfaces and Enriques surfaces

14J29 Surfaces of general type
14J30 3-folds
14J32 Calabi-Yau manifolds, mirror symmetry
14J35 4-folds
14J40 n-folds ($n > 4$)
14J45 Fano varieties
14J50 Automorphisms of surfaces and higher-dimensional varieties
14J60 Vector bundles on surfaces and higher-dimensional varieties, and their moduli [See also 14D20, 14F05, 32Lxx]
14J70 Hypersurfaces
14J80 Topology of surfaces (Donaldson polynomials, Seiberg-Witten invariants)
14J81 Relationships with physics
14J99 None of the above, but in this section

14Kxx Abelian varieties and schemes
14K02 Isogeny
14K05 Algebraic theory
14K10 Algebraic moduli, classification [See also 11G15]
14K12 Subvarieties
14K15 Arithmetic ground fields [See also 11Dxx, 11Fxx, 11Gxx, 14Gxx]
14K20 Analytic theory; abelian integrals and differentials
14K22 Complex multiplication [See also 11G15]
14K25 Theta functions [See also 14H42]
14K30 Picard schemes, higher Jacobians [See also 14H40, 32G20]
14K99 None of the above, but in this section

14Lxx Algebraic groups {For linear algebraic groups, see 20Gxx; for Lie algebras, see 17B45}
14L05 Formal groups, p-divisible groups [See also 55N22]
14L10 Group varieties
14L15 Group schemes
14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35]
14L24 Geometric invariant theory [See also 13A50]
14L30 Group actions on varieties or schemes (quotients) [See also 13A50, 14L24]
14L35 Classical groups (geometric aspects) [See also 20Gxx, 51N30]
14L40 Other algebraic groups (geometric aspects)
14L99 None of the above, but in this section

14Mxx Special varieties
14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [See also 13F45, 13H10]
14M06 Linkage [See also 13C40]
14M07 Low codimension problems
14M10 Complete intersections [See also 13C40]
14M12 Determinantal varieties [See also 13C40]
14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]
14M17 Homogeneous spaces and generalizations [See also 32M10, 53C30, 57T15]
14M20 Rational and unirational varieties
14M25 Toric varieties, Newton polyhedra [See also 52B20]
14M30 Supervarieties [See also 32C11, 58A50]
14M99 None of the above, but in this section

14Nxx Projective and enumerative geometry [See also 51–XX]
14N05 Projective techniques [See also 51N35]
14N10 Enumerative problems (combinatorial problems)
14N15 Classical problems, Schubert calculus
14N20 Configurations of linear subspaces
14N25 Varieties of low degree
14N30 Adjunction problems
14N35 Gromov-Witten invariants, quantum cohomology [See also 53D45]
14N99 None of the above, but in this section

14Pxx Real algebraic and real analytic geometry
14P05 Real algebraic sets [See also 12Dxx]
14P10 Semialgebraic sets and related spaces
14P15 Real analytic and semianalytic sets [See also 32B20, 32C05]
14P20 Nash functions and manifolds [See also 32C07, 58A07]
14P25 Topology of real algebraic varieties
14P99 None of the above, but in this section

14Qxx Computational aspects in algebraic geometry [See also 12Y05, 13Pxx, 68W30]
14Q05 Curves
14Q10 Surfaces, hypersurfaces
14Q15 Higher-dimensional varieties
14Q20 Effectivity
14Q99 None of the above, but in this section

14Rxx Affine geometry
14R05 Classification of affine varieties
14R10 Affine spaces (automorphisms, embeddings, exotic structures, cancellation problem)
14R15 Jacobian problem
14R20 Group actions on affine varieties [See also 13A50, 14L30]
14R25 Affine fibrations [See also 14D06]
14R99 None of the above, but in this section

15–XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY
15–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
15–01 Instructional exposition (textbooks, tutorial papers, etc.)
15–02 Research exposition (monographs, survey articles)
15–03 Historical (must also be assigned at least one classification number from Section 01)
15–04 Explicit machine computation and programs (not the theory of computation or programming)
15–06 Proceedings, conferences, collections, etc.
15A03 Vector spaces, linear dependence, rank
15A04 Linear transformations, semilinear transformations
15A06 Linear equations
15A09 Matrix inversion, generalized inverses
15A12 Conditioning of matrices [See also 65F35]
15A15 Determinants, permanents, other special matrix functions [See also 19B10, 19B14]
15A18 Eigenvalues, singular values, and eigenvectors
15A21 Canonical forms, reductions, classification
15A22 Matrix pencils [See also 47A56]
15A23 Factorization of matrices
15A24 Matrix equations and identities
15A27 Commutativity
15A29 Inverse problems
15A30 Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx]
15A33 Matrices over special rings (quaternions, finite fields, etc.)
15A36 Matrices of integers [See also 11C20]
15A39 Linear inequalities
15A42 Inequalities involving eigenvalues and eigenvectors
15A45 Miscellaneous inequalities involving matrices
15A48 Positive matrices and their generalizations; cones of matrices
15A51 Stochastic matrices
15A52 Random matrices
15A54 Matrices over function rings in one or more variables
15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)
15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05]
15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]
15A66 Clifford algebras, spinors
15A69 Multilinear algebra, tensor products
15A72 Vector and tensor algebra, theory of invariants [See also 13A50, 14L24]
15A75 Exterior algebra, Grassmann algebras
15A78 Other algebras built from modules
15A90 Applications of matrix theory to physics
15A99 Miscellaneous topics

16–XX ASSOCIATIVE RINGS AND ALGEBRAS {For the commutative case, see 13–XX}
16–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
16–01 Instructional exposition (textbooks, tutorial papers, etc.)
16–02 Research exposition (monographs, survey articles)
16–03 Historical (must also be assigned at least one classification number from Section 01)
16–04 Explicit machine computation and programs (not the theory of computation or programming)
16–06 Proceedings, conferences, collections, etc.

16Bxx General and miscellaneous
16B50 Category-theoretic methods and results (except as in 16D90) [See also 18–XX]
16B70 Applications of logic [See also 03Cxx]
16B99 None of the above, but in this section

16Dxx Modules, bimodules and ideals
16D10 General module theory
16D20 Bimodules
16D25 Ideals
16D30 Infinite-dimensional simple rings (except as in 16Kxx)
16D40 Free, projective, and flat modules and ideals [See also 19A13]
16D50 Injective modules, self-injective rings [See also 16L60]
16D60 Simple and semisimple modules, primitive rings and ideals
16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation
16D80 Other classes of modules and ideals [See also 16G50]
16D90 Module categories [See also 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality
16D99 None of the above, but in this section

16Exx Homological methods {For commutative rings, see 13Dxx; for general categories, see 18Gxx}
16E05 Syzygies, resolutions, complexes
16E10 Homological dimension
16E20 Grothendieck groups, K-theory, etc. [See also 18F30, 19Axx, 19D50]

16E30 Homological functors on modules (Tor, Ext, etc.)
16E40 (Co)homology of rings and algebras (e.g. Hochschild, cyclic, dihedral, etc.)
16E45 Differential graded algebras and applications
16E50 von Neumann regular rings and generalizations
16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.
16E65 Homological conditions on rings (generalizations of regular, Gorenstein, Cohen-Macaulay rings, etc.)
16E99 None of the above, but in this section
16Gxx Representation theory of rings and algebras
16G10 Representations of Artinian rings
16G20 Representations of quivers and partially ordered sets
16G30 Representations of orders, lattices, algebras over commutative rings [See also 16H05]
16G50 Cohen-Macaulay modules
16G60 Representation type (finite, tame, wild, etc.)
16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers
16G99 None of the above, but in this section
16H05 Orders and arithmetic, separable algebras, Azumaya algebras [See also 11R52, 11R54, 11S45]
16Kxx Division rings and semisimple Artin rings [See also 12E15, 15A30]
16K20 Finite-dimensional {For crossed products, see 16S35}
16K40 Infinite-dimensional and general
16K50 Brauer groups [See also 12G05, 14F22]
16K99 None of the above, but in this section
16Lxx Local rings and generalizations
16L30 Noncommutative local and semilocal rings, perfect rings
16L60 Quasi-Frobenius rings [See also 16D50]
16L99 None of the above, but in this section
16Nxx Radicals and radical properties of rings
16N20 Jacobson radical, quasimultiplication
16N40 Nil and nilpotent radicals, sets, ideals, rings
16N60 Prime and semiprime rings [See also 16D60, 16U10]
16N80 General radicals and rings {For radicals in module categories, see 16S90}
16N99 None of the above, but in this section
16Pxx Chain conditions, growth conditions, and other forms of finiteness
16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx}
16P20 Artinian rings and modules
16P40 Noetherian rings and modules
16P50 Localization and Noetherian rings [See also 16U20]
16P60 Chain conditions on annihilators and summands: Goldie-type conditions [See also 16U20], Krull dimension
16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence
16P90 Growth rate, Gel′fand-Kirillov dimension
16P99 None of the above, but in this section
16Rxx Rings with polynomial identity
16R10 T-ideals, identities, varieties of rings and algebras
16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings
16R30 Trace rings and invariant theory
16R40 Identities other than those of matrices over commutative rings
16R50 Other kinds of identities (generalized polynomial, rational, involution)
16R99 None of the above, but in this section
16Sxx Rings and algebras arising under various constructions
16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)
16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)
16S20 Centralizing and normalizing extensions
16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]
16S32 Rings of differential operators [See also 13N10, 32C38]
16S34 Group rings [See also 20C05, 20C07], Laurent polynomial rings
16S35 Twisted and skew group rings, crossed products
16S36 Ordinary and skew polynomial rings and semigroup rings [See also 20M25]
16S37 Quadratic and Koszul algebras
16S38 Rings arising from non-commutative algebraic geometry
16S40 Smash products of general Hopf actions [See also 16W30]
16S50 Endomorphism rings; matrix rings [See also 15–XX]
16S60 Rings of functions, subdirect products, sheaves of rings
16S70 Extensions of rings by ideals
16S80 Deformations of rings [See also 13D10, 14D15]
16S90 Maximal ring of quotients, torsion theories, radicals on module categories [See also 13D30, 18E40] {For radicals of rings, see 16Nxx}
16S99 None of the above, but in this section
16Uxx Conditions on elements
16U10 Integral domains
16U20 Ore rings, multiplicative sets, Ore localization
16U30 Divisibility, noncommutative UFDs
16U60 Units, groups of units
16U70 Center, normalizer (invariant elements)
16U80 Generalizations of commutativity
16U99 None of the above, but in this section
16Wxx Rings and algebras with additional structure
16W10 Rings with involution; Lie, Jordan and other nonassociative structures [See also 17B60, 17C50, 46Kxx]
16W20 Automorphisms and endomorphisms
16W22 Actions of groups and semigroups; invariant theory
16W25 Derivations, actions of Lie algebras
16W30 Coalgebras, bialgebras, Hopf algebras [See also 16S40, 57T05]; rings, modules, etc. on which these act
16W35 Ring-theoretic aspects of quantum groups [See also 17B37, 20G42, 81R50]
16W50 Graded rings and modules
16W55 "Super" (or "skew") structure [See also 17A70, 17Bxx, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66}
16W60 Valuations, completions, formal power series and related constructions [See also 13Jxx]
16W70 Filtered rings; filtrational and graded techniques
16W80 Topological and ordered rings and modules [See also 06F25, 13Jxx]
16W99 None of the above, but in this section
16Yxx Generalizations {For nonassociative rings, see 17–XX}
16Y30 Near-rings [See also 12K05]
16Y60 Semirings [See also 12K10]
16Y99 None of the above, but in this section
16Z05 Computational aspects of associative rings [See also 68W30]

17–XX NONASSOCIATIVE RINGS AND ALGEBRAS
17–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
17–01 Instructional exposition (textbooks, tutorial papers, etc.)
17–02 Research exposition (monographs, survey articles)
17–03 Historical (must also be assigned at least one classification number from Section 01)
17–04 Explicit machine computation and programs (not the theory of computation or programming)
17–06 Proceedings, conferences, collections, etc.
17–08 Computational methods
17Axx General nonassociative rings
17A01 General theory
17A05 Power-associative rings
17A15 Noncommutative Jordan algebras
17A20 Flexible algebras
17A30 Algebras satisfying other identities
17A32 Leibniz algebras
17A35 Division algebras
17A36 Automorphisms, derivations, other operators
17A40 Ternary compositions
17A42 Other n-ary compositions ($n \geq 3$)
17A45 Quadratic algebras (but not quadratic Jordan algebras)
17A50 Free algebras
17A60 Structure theory
17A65 Radical theory
17A70 Superalgebras
17A75 Composition algebras
17A80 Valued algebras
17A99 None of the above, but in this section
17Bxx Lie algebras and Lie superalgebras {For Lie groups, see 22Exx}
17B01 Identities, free Lie (super)algebras
17B05 Structure theory
17B10 Representations, algebraic theory (weights)
17B15 Representations, analytic theory
17B20 Simple, semisimple, reductive (super)algebras (roots)
17B25 Exceptional (super)algebras
17B30 Solvable, nilpotent (super)algebras
17B35 Universal enveloping (super)algebras [See also 16S30]
17B37 Quantum groups (quantized enveloping algebras) and related deformations [See also 16W35, 20G42, 81R50, 82B23]
17B40 Automorphisms, derivations, other operators
17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]
17B50 Modular Lie (super)algebras
17B55 Homological methods in Lie (super)algebras
17B56 Cohomology of Lie (super)algebras
17B60 Lie (super)algebras associated with other structures (associative, Jordan, etc.) [See also 16W10, 17C40, 17C50]
17B62 Lie bialgebras
17B63 Poisson algebras
17B65 Infinite-dimensional Lie (super)algebras [See also 22E65]

17B66 Lie algebras of vector fields and related (super) algebras
17B67 Kac-Moody (super)algebras (structure and representation theory)
17B68 Virasoro and related algebras
17B69 Vertex operators; vertex operator algebras and related structures
17B70 Graded Lie (super)algebras
17B75 Color Lie (super)algebras
17B80 Applications to integrable systems
17B81 Applications to physics
17B99 None of the above, but in this section

17Cxx Jordan algebras (algebras, triples and pairs)
17C05 Identities and free Jordan structures
17C10 Structure theory
17C17 Radicals
17C20 Simple, semisimple algebras
17C27 Idempotents, Peirce decompositions
17C30 Associated groups, automorphisms
17C36 Associated manifolds
17C37 Associated geometries
17C40 Exceptional Jordan structures
17C50 Jordan structures associated with other structures [See also 16W10]
17C55 Finite-dimensional structures
17C60 Division algebras
17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]
17C70 Super structures
17C90 Applications to physics
17C99 None of the above, but in this section

17Dxx Other nonassociative rings and algebras
17D05 Alternative rings
17D10 Mal′cev (Mal′tsev) rings and algebras
17D15 Right alternative rings
17D20 (γ,δ)-rings, including $(1,-1)$-rings
17D25 Lie-admissible algebras
17D92 Genetic algebras
17D99 None of the above, but in this section

18–XX CATEGORY THEORY; HOMOLOGICAL ALGEBRA {For commutative rings see 13Dxx, for associative rings 16Exx, for groups 20Jxx, for topological groups and related structures 57Txx; see also 55Nxx and 55Uxx for algebraic topology}
18–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
18–01 Instructional exposition (textbooks, tutorial papers, etc.)
18–02 Research exposition (monographs, survey articles)
18–03 Historical (must also be assigned at least one classification number from Section 01)
18–04 Explicit machine computation and programs (not the theory of computation or programming)
18–06 Proceedings, conferences, collections, etc.

18Axx General theory of categories and functors
18A05 Definitions, generalizations
18A10 Graphs, diagram schemes, precategories [See especially 20L05]
18A15 Foundations, relations to logic and deductive systems [See also 03–XX]
18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms
18A22 Special properties of functors (faithful, full, etc.)
18A23 Natural morphisms, dinatural morphisms
18A25 Functor categories, comma categories
18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
18A32 Factorization of morphisms, substructures, quotient structures, congruences, amalgams
18A35 Categories admitting limits (complete categories), functors preserving limits, completions
18A40 Adjoint functors (universal constructions, reflective subcategories, Kan extensions, etc.)
18A99 None of the above, but in this section

18Bxx Special categories
18B05 Category of sets, characterizations [See also 03–XX]
18B10 Category of relations, additive relations
18B15 Embedding theorems, universal categories [See also 18E20]
18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx]
18B25 Topoi [See also 03G30]
18B30 Categories of topological spaces and continuous mappings [See also 54–XX]
18B35 Preorders, orders and lattices (viewed as categories) [See also 06–XX]
18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20L05, 20Mxx]
18B99 None of the above, but in this section

18Cxx Categories and theories
18C05 Equational categories [See also 03C05, 08C05]
18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03G30]
18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx]
18C20 Algebras and Kleisli categories associated with monads
18C30 Sketches and generalizations
18C35 Accessible and locally presentable categories
18C50 Categorical semantics of formal languages [See also 68Q55, 68Q65]
18C99 None of the above, but in this section

18Dxx Categories with structure
18D05 Double categories, 2-categories, bicategories and generalizations
18D10 Monoidal categories (= multiplicative categories), symmetric monoidal categories, braided categories [See also 19D23]
18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)
18D20 Enriched categories (over closed or monoidal categories)
18D25 Strong functors, strong adjunctions
18D30 Fibered categories
18D35 Structured objects in a category (group objects, etc.)
18D50 Operads [See also 55P48]
18D99 None of the above, but in this section

18Exx Abelian categories
18E05 Preadditive, additive categories
18E10 Exact categories, abelian categories
18E15 Grothendieck categories
18E20 Embedding theorems [See also 18B15]
18E25 Derived functors and satellites
18E30 Derived categories, triangulated categories
18E35 Localization of categories
18E40 Torsion theories, radicals [See also 13D30, 16S90]
18E99 None of the above, but in this section

18Fxx Categories and geometry
18F05 Local categories and functors
18F10 Grothendieck topologies [See also 14F20]
18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx]
18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30]
18F25 Algebraic K-theory and L-theory [See also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16E20, 19–XX, 46L80, 57R65, 57R67]
18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx]
18F99 None of the above, but in this section

18Gxx Homological algebra [See also 13Dxx, 16Exx, 20Jxx, 55Nxx, 55Uxx, 57Txx]
18G05 Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50]
18G10 Resolutions; derived functors [See also 13D02, 16E05, 18E25]
18G15 Ext and Tor, generalizations, Künneth formula [See also 55U25]
18G20 Homological dimension [See also 13D05, 16E10]
18G25 Relative homological algebra, projective classes
18G30 Simplicial sets, simplicial objects (in a category) [See also 55U10]
18G35 Chain complexes [See also 18E30, 55U15]
18G40 Spectral sequences, hypercohomology [See also 55Txx]
18G50 Nonabelian homological algebra
18G55 Homotopical algebra
18G60 Other (co)homology theories [See also 19D55, 46L80, 58J20, 58J22]
18G99 None of the above, but in this section

19–XX K-THEORY [See also 16E20, 18F25]
19–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
19–01 Instructional exposition (textbooks, tutorial papers, etc.)
19–02 Research exposition (monographs, survey articles)
19–03 Historical (must also be assigned at least one classification number from Section 01)
19–04 Explicit machine computation and programs (not the theory of computation or programming)
19–06 Proceedings, conferences, collections, etc.

19Axx Grothendieck groups and K_0 [See also 13D15, 18F30]
19A13 Stability for projective modules [See also 13C10]
19A15 Efficient generation
19A22 Frobenius induction, Burnside and representation rings
19A31 K_0 of group rings and orders
19A49 K_0 of other rings
19A99 None of the above, but in this section

19Bxx Whitehead groups and K_1
19B10 Stable range conditions
19B14 Stability for linear groups
19B28 K_1 of group rings and orders [See also 57Q10]
19B37 Congruence subgroup problems [See also 20H05]
19B99 None of the above, but in this section

19Cxx **Steinberg groups and K_2**
19C09 Central extensions and Schur multipliers
19C20 Symbols, presentations and stability of K_2
19C30 K_2 and the Brauer group
19C40 Excision for K_2
19C99 None of the above, but in this section
19Dxx **Higher algebraic K-theory**
19D06 Q- and plus-constructions
19D10 Algebraic K-theory of spaces
19D23 Symmetric monoidal categories [See also 18D10]
19D25 Karoubi-Villamayor-Gersten K-theory
19D35 Negative K-theory, NK and Nil
19D45 Higher symbols, Milnor K-theory
19D50 Computations of higher K-theory of rings [See also 13D15, 16E20]
19D55 K-theory and homology; cyclic homology and cohomology [See also 18G60]
19D99 None of the above, but in this section
19Exx **K-theory in geometry**
19E08 K-theory of schemes [See also 14C35]
19E15 Algebraic cycles and motivic cohomology [See also 14C25, 14C35]
19E20 Relations with cohomology theories [See also 14Fxx]
19E99 None of the above, but in this section
19Fxx **K-theory in number theory [See also 11R70, 11S70]**
19F05 Generalized class field theory [See also 11G45]
19F15 Symbols and arithmetic [See also 11R37]
19F27 Étale cohomology, higher regulators, zeta and L-functions [See also 11G40, 11R42, 11S40, 14F20, 14G10]
19F99 None of the above, but in this section
19Gxx **K-theory of forms [See also 11Exx]**
19G05 Stability for quadratic modules
19G12 Witt groups of rings [See also 11E81]
19G24 L-theory of group rings [See also 11E81]
19G38 Hermitian K-theory, relations with K-theory of rings
19G99 None of the above, but in this section
19Jxx **Obstructions from topology**
19J05 Finiteness and other obstructions in K_0
19J10 Whitehead (and related) torsion
19J25 Surgery obstructions [See also 57R67]
19J35 Obstructions to group actions
19J99 None of the above, but in this section
19Kxx **K-theory and operator algebras [See mainly 46L80, and also 46M20]**
19K14 K_0 as an ordered group, traces
19K33 EXT and K-homology [See also 55N22]
19K35 Kasparov theory (KK-theory) [See also 58J22]
19K56 Index theory [See also 58J20, 58J22]
19K99 None of the above, but in this section
19Lxx **Topological K-theory [See also 55N15, 55R50, 55S25]**
19L10 Riemann-Roch theorems, Chern characters
19L20 J-homomorphism, Adams operations [See also 55Q50]
19L41 Connective K-theory, cobordism [See also 55N22]
19L47 Equivariant K-theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91]
19L64 Computations, geometric applications
19L99 None of the above, but in this section
19M05 **Miscellaneous applications of K-theory**

20–XX **GROUP THEORY AND GENERALIZATIONS**
20–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
20–01 Instructional exposition (textbooks, tutorial papers, etc.)
20–02 Research exposition (monographs, survey articles)
20–03 Historical (must also be assigned at least one classification number from Section 01)
20–04 Explicit machine computation and programs (not the theory of computation or programming)
20–06 Proceedings, conferences, collections, etc.
20Axx **Foundations**
20A05 Axiomatics and elementary properties
20A10 Metamathematical considerations {For word problems, see 20F10}
20A15 Applications of logic to group theory
20A99 None of the above, but in this section
20Bxx **Permutation groups**
20B05 General theory for finite groups
20B07 General theory for infinite groups
20B10 Characterization theorems
20B15 Primitive groups
20B20 Multiply transitive finite groups
20B22 Multiply transitive infinite groups
20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51–XX]
20B27 Infinite automorphism groups [See also 12F10]
20B30 Symmetric groups
20B35 Subgroups of symmetric groups
20B40 Computational methods
20B99 None of the above, but in this section
20Cxx **Representation theory of groups [See also 19A22 (for representation rings and Burnside rings)]**
20C05 Group rings of finite groups and their modules [See also 16S34]
20C07 Group rings of infinite groups and their modules [See also 16S34]
20C08 Hecke algebras and their representations
20C10 Integral representations of finite groups
20C11 p-adic representations of finite groups
20C12 Integral representations of infinite groups
20C15 Ordinary representations and characters
20C20 Modular representations and characters
20C25 Projective representations and multipliers
20C30 Representations of finite symmetric groups
20C32 Representations of infinite symmetric groups
20C33 Representations of finite groups of Lie type
20C34 Representations of sporadic groups
20C35 Applications of group representations to physics
20C40 Computational methods
20C99 None of the above, but in this section
20Dxx **Abstract finite groups**
20D05 Classification of simple and nonsolvable groups
20D06 Simple groups: alternating groups and groups of Lie type [See also 20Gxx]
20D08 Simple groups: sporadic groups
20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [See also 20F17]
20D15 Nilpotent groups, p-groups
20D20 Sylow subgroups, Sylow properties, π-groups, π-structure
20D25 Special subgroups (Frattini, Fitting, etc.)
20D30 Series and lattices of subgroups
20D35 Subnormal subgroups
20D40 Products of subgroups
20D45 Automorphisms
20D60 Arithmetic and combinatorial problems
20D99 None of the above, but in this section
20Exx **Structure and classification of infinite or finite groups**
20E05 Free nonabelian groups
20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
20E07 Subgroup theorems; subgroup growth
20E08 Groups acting on trees [See also 20F65]
20E10 Quasivarieties and varieties of groups
20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22]
20E18 Limits, profinite groups
20E22 Extensions, wreath products, and other compositions [See also 20J05]
20E25 Local properties
20E26 Residual properties and generalizations
20E28 Maximal subgroups
20E32 Simple groups [See also 20D05]
20E34 General structure theorems
20E36 General theorems concerning automorphisms of groups
20E42 Groups with a BN-pair; buildings [See also 51E24]
20E45 Conjugacy classes
20E99 None of the above, but in this section
20Fxx **Special aspects of infinite or finite groups**
20F05 Generators, relations, and presentations
20F06 Cancellation theory; application of van Kampen diagrams [See also 57M05]
20F10 Word problems, other decision problems, connections with logic and automata [See also 03B25, 03D05, 03D40, 06B25, 08A50, 68Q70]
20F12 Commutator calculus
20F14 Derived series, central series, and generalizations
20F16 Solvable groups, supersolvable groups [See also 20D10]
20F17 Formations of groups, Fitting classes [See also 20D10]
20F18 Nilpotent groups [See also 20D15]
20F19 Generalizations of solvable and nilpotent groups
20F22 Other classes of groups defined by subgroup chains
20F24 FC-groups and their generalizations
20F28 Automorphism groups of groups [See also 20E36]
20F29 Representations of groups as automorphism groups of algebraic systems
20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx]
20F36 Braid groups; Artin groups
20F38 Other groups related to topology or analysis
20F40 Associated Lie structures
20F45 Engel conditions
20F50 Periodic groups; locally finite groups
20F55 Reflection and Coxeter groups [See also 22E40, 51F15]
20F60 Ordered groups [See mainly 06F15]
20F65 Geometric group theory [See also 05C25, 20E08, 57Mxx]
20F67 Hyperbolic groups and nonpositively curved groups

20F69 Asymptotic properties of groups
20F99 None of the above, but in this section
20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H56; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55}
20G05 Representation theory
20G10 Cohomology theory
20G15 Linear algebraic groups over arbitrary fields
20G20 Linear algebraic groups over the reals, the complexes, the quaternions
20G25 Linear algebraic groups over local fields and their integers
20G30 Linear algebraic groups over global fields and their integers
20G35 Linear algebraic groups over adèles and other rings and schemes
20G40 Linear algebraic groups over finite fields
20G42 Quantum groups (quantized function algebras) and their representations [See also 16W35, 17B37, 81R50]
20G45 Applications to physics
20G99 None of the above, but in this section
20Hxx Other groups of matrices [See also 15A30]
20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
20H15 Other geometric groups, including crystallographic groups [See also 51–XX, especially 51F15, and 82D25]
20H20 Other matrix groups over fields
20H25 Other matrix groups over rings
20H30 Other matrix groups over finite fields
20H99 None of the above, but in this section
20Jxx Connections with homological algebra and category theory
20J05 Homological methods in group theory
20J06 Cohomology of groups
20J15 Category of groups
20J99 None of the above, but in this section
20Kxx Abelian groups
20K01 Finite abelian groups
20K10 Torsion groups, primary groups and generalized primary groups
20K15 Torsion-free groups, finite rank
20K20 Torsion-free groups, infinite rank
20K21 Mixed groups
20K25 Direct sums, direct products, etc.
20K27 Subgroups
20K30 Automorphisms, homomorphisms, endomorphisms, etc.
20K35 Extensions
20K40 Homological and categorical methods
20K45 Topological methods [See also 22A05, 22B05]
20K99 None of the above, but in this section
20L05 Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
20Mxx Semigroups
20M05 Free semigroups, generators and relations, word problems
20M07 Varieties of semigroups
20M10 General structure theory
20M11 Radical theory
20M12 Ideal theory
20M14 Commutative semigroups
20M15 Mappings of semigroups
20M17 Regular semigroups
20M18 Inverse semigroups
20M19 Orthodox semigroups
20M20 Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15]
20M25 Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y60]
20M30 Representation of semigroups; actions of semigroups on sets
20M35 Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Q70, 68T50]
20M50 Connections of semigroups with homological algebra and category theory
20M99 None of the above, but in this section
20Nxx Other generalizations of groups
20N02 Sets with a single binary operation (groupoids)
20N05 Loops, quasigroups [See also 05Bxx]
20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
20N15 n-ary systems ($n \geq 3$)
20N20 Hypergroups
20N25 Fuzzy groups [See also 03E72]
20N99 None of the above, but in this section
20P05 Probabilistic methods in group theory [See also 60Bxx]

22–XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX}
22–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
22–01 Instructional exposition (textbooks, tutorial papers, etc.)
22–02 Research exposition (monographs, survey articles)
22–03 Historical (must also be assigned at least one classification number from Section 01)
22–04 Explicit machine computation and programs (not the theory of computation or programming)
22–06 Proceedings, conferences, collections, etc.
22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80}
22A05 Structure of general topological groups
22A10 Analysis on general topological groups
22A15 Structure of topological semigroups
22A20 Analysis on topological semigroups
22A22 Topological groupoids (including differentiable and Lie groupoids) [See also 58H05]
22A25 Representations of general topological groups and semigroups
22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F30]
22A30 Other topological algebraic systems and their representations
22A99 None of the above, but in this section
22Bxx Locally compact abelian groups (LCA groups)
22B05 General properties and structure of LCA groups
22B10 Structure of group algebras of LCA groups
22B99 None of the above, but in this section
22C05 Compact groups
22Dxx Locally compact groups and their algebras
22D05 General properties and structure of locally compact groups
22D10 Unitary representations of locally compact groups
22D12 Other representations of locally compact groups
22D15 Group algebras of locally compact groups
22D20 Representations of group algebras
22D25 C^*-algebras and W^*-algebras in relation to group representations [See also 46Lxx]
22D30 Induced representations
22D35 Duality theorems
22D40 Ergodic theory on groups [See also 28Dxx]
22D45 Automorphism groups of locally compact groups
22D99 None of the above, but in this section
22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90}
22E05 Local Lie groups [See also 34–XX, 35–XX, 58H05]
22E10 General properties and structure of complex Lie groups [See also 32M05]
22E15 General properties and structure of real Lie groups
22E20 General properties and structure of other Lie groups
22E25 Nilpotent and solvable Lie groups
22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)
22E30 Analysis on real and complex Lie groups [See also 33C80, 43–XX]
22E35 Analysis on p-adic Lie groups
22E40 Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]
22E41 Continuous cohomology [See also 57R32, 57Txx, 58H10]
22E43 Structure and representation of the Lorentz group
22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05}
22E46 Semisimple Lie groups and their representations
22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B10]
22E50 Representations of Lie and linear algebraic groups over local fields [See also 20G05]
22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05]
22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx}
22E65 Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05]
22E67 Loop groups and related constructions, group-theoretic treatment [See also 58D05]
22E70 Applications of Lie groups to physics; explicit representations [See also 81R05, 81R10]
22E99 None of the above, but in this section
22Fxx Noncompact transformation groups
22F05 General theory of group and pseudogroup actions {For topological properties of spaces with an action, see 57S20}
22F10 Measurable group actions [See also 22D40, 28Dxx, 37Axx]
22F30 Homogeneous spaces {For general actions on manifolds or preserving geometrical structures, see 57M60, 57Sxx; for discrete subgroups of Lie groups see especially 22E40}

22F50 Groups as automorphisms of other structures
22F99 None of the above, but in this section

26–XX REAL FUNCTIONS [See also 54C30]
26–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
26–01 Instructional exposition (textbooks, tutorial papers, etc.)
26–02 Research exposition (monographs, survey articles)
26–03 Historical (must also be assigned at least one classification number from Section 01)
26–04 Explicit machine computation and programs (not the theory of computation or programming)
26–06 Proceedings, conferences, collections, etc.
26Axx Functions of one variable
26A03 Foundations: limits and generalizations, elementary topology of the line
26A06 One-variable calculus
26A09 Elementary functions
26A12 Rate of growth of functions, orders of infinity, slowly varying functions [See also 26A48]
26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27}
26A16 Lipschitz (Hölder) classes
26A18 Iteration [See also 37Bxx, 37Cxx, 37Exx, 39B12, 47H10, 54H25]
26A21 Classification of real functions; Baire classification of sets and functions [See also 03E15, 28A05, 54C50]
26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15]
26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
26A30 Singular functions, Cantor functions, functions with other special properties
26A33 Fractional derivatives and integrals
26A36 Antidifferentiation
26A39 Denjoy and Perron integrals, other special integrals
26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28–XX]
26A45 Functions of bounded variation, generalizations
26A46 Absolutely continuous functions
26A48 Monotonic functions, generalizations
26A51 Convexity, generalizations
26A99 None of the above, but in this section
26Bxx Functions of several variables
26B05 Continuity and differentiation questions
26B10 Implicit function theorems, Jacobians, transformations with several variables
26B12 Calculus of vector functions
26B15 Integration: length, area, volume [See also 28A75, 51M25]
26B20 Integral formulas (Stokes, Gauss, Green, etc.)
26B25 Convexity, generalizations
26B30 Absolutely continuous functions, functions of bounded variation
26B35 Special properties of functions of several variables, Hölder conditions, etc.
26B40 Representation and superposition of functions
26B99 None of the above, but in this section
26Cxx Polynomials, rational functions
26C05 Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
26C15 Rational functions [See also 14Pxx]
26C99 None of the above, but in this section
26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15}
26D05 Inequalities for trigonometric functions and polynomials
26D07 Inequalities involving other types of functions
26D10 Inequalities involving derivatives and differential and integral operators
26D15 Inequalities for sums, series and integrals
26D20 Other analytical inequalities
26D99 None of the above, but in this section
26Exx Miscellaneous topics [See also 58Cxx]
26E05 Real-analytic functions [See also 32B05, 32C05]
26E10 C^∞-functions, quasi-analytic functions [See also 58C25]
26E15 Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
26E20 Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
26E25 Set-valued functions [See also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx}
26E30 Non-Archimedean analysis [See also 12J25]
26E35 Nonstandard analysis [See also 03H05, 28E05, 54J05]
26E40 Constructive real analysis [See also 03F60]
26E50 Fuzzy real analysis [See also 03E72, 28E10]
26E60 Means [See also 47A64]
26E99 None of the above, but in this section

28–XX MEASURE AND INTEGRATION {For analysis on manifolds, see 58–XX}
28–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
28–01 Instructional exposition (textbooks, tutorial papers, etc.)
28–02 Research exposition (monographs, survey articles)
28–03 Historical (must also be assigned at least one classification number from Section 01)
28–04 Explicit machine computation and programs (not the theory of computation or programming)
28–06 Proceedings, conferences, collections, etc.
28Axx Classical measure theory
28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [See also 03E15, 26A21, 54H05]
28A10 Real- or complex-valued set functions
28A12 Contents, measures, outer measures, capacities
28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24]
28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
28A25 Integration with respect to measures and other set functions
28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
28A35 Measures and integrals in product spaces
28A50 Integration and disintegration of measures
28A51 Lifting theory [See also 46G15]
28A60 Measures on Boolean rings, measure algebras [See also 54H10]
28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]
28A78 Hausdorff and packing measures
28A80 Fractals [See also 37Fxx]
28A99 None of the above, but in this section
28Bxx Set functions, measures and integrals with values in abstract spaces
28B05 Vector-valued set functions, measures and integrals [See also 46G10]
28B10 Group- or semigroup-valued set functions, measures and integrals
28B15 Set functions, measures and integrals with values in ordered spaces
28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [See also 26E25, 54C60, 54C65, 91B14]
28B99 None of the above, but in this section
28Cxx Set functions and measures on spaces with additional structure [See also 46G12, 58C35, 58D20]
28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures
28C10 Set functions and measures on topological groups, Haar measures, invariant measures [See also 22Axx, 43A05]
28C15 Set functions and measures on topological spaces (regularity of measures, etc.)
28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12, 58C35, 58D20, 60B11]
28C99 None of the above, but in this section
28Dxx Measure-theoretic ergodic theory [See also 11K50, 11K55, 22D40, 37Axx, 47A35, 54H20, 60Fxx, 60G10]
28D05 Measure-preserving transformations
28D10 One-parameter continuous families of measure-preserving transformations
28D15 General groups of measure-preserving transformations
28D20 Entropy and other invariants
28D99 None of the above, but in this section
28Exx Miscellaneous topics in measure theory
28E05 Nonstandard measure theory [See also 03H05, 26E35]
28E10 Fuzzy measure theory [See also 03E72, 26E50, 94D05]
28E15 Other connections with logic and set theory
28E99 None of the above, but in this section

30–XX FUNCTIONS OF A COMPLEX VARIABLE {For analysis on manifolds, see 58–XX}
30–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
30–01 Instructional exposition (textbooks, tutorial papers, etc.)
30–02 Research exposition (monographs, survey articles)
30–03 Historical (must also be assigned at least one classification number from Section 01)
30–04 Explicit machine computation and programs (not the theory of computation or programming)
30–06 Proceedings, conferences, collections, etc.
30Axx General properties
30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
30A10 Inequalities in the complex domain
30A99 None of the above, but in this section

30Bxx **Series expansions**
30B10 Power series (including lacunary series)
30B20 Random power series
30B30 Boundary behavior of power series, over-convergence
30B40 Analytic continuation
30B50 Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX]
30B60 Completeness problems, closure of a system of functions
30B70 Continued fractions [See also 11A55, 40A15]
30B99 None of the above, but in this section
30Cxx **Geometric function theory**
30C10 Polynomials
30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
30C20 Conformal mappings of special domains
30C25 Covering theorems in conformal mapping theory
30C30 Numerical methods in conformal mapping theory [See also 65E05]
30C35 General theory of conformal mappings
30C40 Kernel functions and applications
30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
30C50 Coefficient problems for univalent and multivalent functions
30C55 General theory of univalent and multivalent functions
30C62 Quasiconformal mappings in the plane
30C65 Quasiconformal mappings in $\mathbf{R}^n$, other generalizations
30C70 Extremal problems for conformal and quasiconformal mappings, variational methods
30C75 Extremal problems for conformal and quasiconformal mappings, other methods
30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
30C85 Capacity and harmonic measure in the complex plane [See also 31A15]
30C99 None of the above, but in this section
30Dxx **Entire and meromorphic functions, and related topics**
30D05 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34Mxx, 37Fxx, 39–XX]
30D10 Representations of entire functions by series and integrals
30D15 Special classes of entire functions and growth estimates
30D20 Entire functions, general theory
30D30 Meromorphic functions, general theory
30D35 Distribution of values, Nevanlinna theory
30D40 Cluster sets, prime ends, boundary behavior
30D45 Bloch functions, normal functions, normal families
30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part
30D55 H^p-classes
30D60 Quasi-analytic and other classes of functions
30D99 None of the above, but in this section
30Exx **Miscellaneous topics of analysis in the complex domain**
30E05 Moment problems, interpolation problems
30E10 Approximation in the complex domain
30E15 Asymptotic representations in the complex domain
30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
30E25 Boundary value problems [See also 45Exx]
30E99 None of the above, but in this section
30Fxx **Riemann surfaces**
30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
30F15 Harmonic functions on Riemann surfaces
30F20 Classification theory of Riemann surfaces
30F25 Ideal boundary theory
30F30 Differentials on Riemann surfaces
30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]
30F40 Kleinian groups [See also 20H10]
30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)
30F50 Klein surfaces
30F60 Teichmüller theory [See also 32G15]
30F99 None of the above, but in this section
30Gxx **Generalized function theory**
30G06 Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
30G12 Finely holomorphic functions and topological function theory
30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)
30G25 Discrete analytic functions
30G30 Other generalizations of analytic functions (including abstract-valued functions)
30G35 Functions of hypercomplex variables and generalized variables
30G99 None of the above, but in this section
30H05 **Spaces and algebras of analytic functions [See also 32A38, 46Exx, 46J15]**

31–XX **POTENTIAL THEORY {For probabilistic potential theory, see 60J45}**
31–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
31–01 Instructional exposition (textbooks, tutorial papers, etc.)
31–02 Research exposition (monographs, survey articles)
31–03 Historical (must also be assigned at least one classification number from Section 01)
31–04 Explicit machine computation and programs (not the theory of computation or programming)
31–06 Proceedings, conferences, collections, etc.
31Axx **Two-dimensional theory**
31A05 Harmonic, subharmonic, superharmonic functions
31A10 Integral representations, integral operators, integral equations methods
31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85]
31A20 Boundary behavior (theorems of Fatou type, etc.)
31A25 Boundary value and inverse problems
31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
31A35 Connections with differential equations
31A99 None of the above, but in this section
31Bxx **Higher-dimensional theory**
31B05 Harmonic, subharmonic, superharmonic functions
31B10 Integral representations, integral operators, integral equations methods
31B15 Potentials and capacities, extremal length
31B20 Boundary value and inverse problems
31B25 Boundary behavior
31B30 Biharmonic and polyharmonic equations and functions
31B35 Connections with differential equations
31B99 None of the above, but in this section
31Cxx **Other generalizations**
31C05 Harmonic, subharmonic, superharmonic functions
31C10 Pluriharmonic and plurisubharmonic functions [See also 32U05]
31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]
31C15 Potentials and capacities
31C20 Discrete potential theory and numerical methods
31C25 Dirichlet spaces
31C35 Martin boundary theory [See also 60J50]
31C40 Fine potential theory
31C45 Other generalizations (nonlinear potential theory, etc.)
31C99 None of the above, but in this section
31D05 **Axiomatic potential theory**

32–XX **SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES {For infinite-dimensional holomorphy, see 46G20, 58B12}**
32–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
32–01 Instructional exposition (textbooks, tutorial papers, etc.)
32–02 Research exposition (monographs, survey articles)
32–03 Historical (must also be assigned at least one classification number from Section 01)
32–04 Explicit machine computation and programs (not the theory of computation or programming)
32–06 Proceedings, conferences, collections, etc.
32Axx **Holomorphic functions of several complex variables**
32A05 Power series, series of functions
32A07 Special domains (Reinhardt, Hartogs, circular, tube)
32A10 Holomorphic functions
32A12 Multifunctions
32A15 Entire functions
32A17 Special families of functions
32A18 Bloch functions, normal functions
32A19 Normal families of functions, mappings
32A20 Meromorphic functions
32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30}
32A25 Integral representations; canonical kernels (Szegő, Bergman, etc.)
32A26 Integral representations, constructed kernels (e.g. Cauchy, Fantappiè-type kernels)
32A27 Local theory of residues [See also 32C30]
32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35}
32A35 H^p-spaces, Nevanlinna spaces [See also 32M15, 42B30, 43A85, 46J15]
32A36 Bergman spaces
32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA)) [See also 46Exx]
32A38 Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
32A40 Boundary behavior of holomorphic functions

32A45 Hyperfunctions [See also 46F15]
32A50 Harmonic analysis of several complex variables [See mainly 43–XX]
32A55 Singular integrals
32A60 Zero sets of holomorphic functions
32A65 Banach algebra techniques [See mainly 46Jxx]
32A70 Functional analysis techniques [See mainly 46Exx]
32A99 None of the above, but in this section
32Bxx Local analytic geometry [See also 13–XX and 14–XX]
32B05 Analytic algebras and generalizations, preparation theorems
32B10 Germs of analytic sets, local parametrization
32B15 Analytic subsets of affine space
32B20 Semi-analytic sets and subanalytic sets [See also 14P15]
32B25 Triangulation and related questions
32B99 None of the above, but in this section
32Cxx Analytic spaces
32C05 Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
32C07 Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
32C09 Embedding of real analytic manifolds
32C11 Complex supergeometry [See also 14A22, 14M30, 58A50]
32C15 Complex spaces
32C18 Topology of analytic spaces
32C20 Normal analytic spaces
32C22 Embedding of analytic spaces
32C25 Analytic subsets and submanifolds
32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27}
32C35 Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30]
32C36 Local cohomology of analytic spaces
32C37 Duality theorems
32C38 Sheaves of differential operators and their modules, D-modules [See also 14F10, 16S32, 35A27, 58J15]
32C55 The Levi problem in complex spaces; generalizations
32C81 Applications to physics
32C99 None of the above, but in this section
32Dxx Analytic continuation
32D05 Domains of holomorphy
32D10 Envelopes of holomorphy
32D15 Continuation of analytic objects
32D20 Removable singularities
32D26 Riemann domains
32D99 None of the above, but in this section
32Exx Holomorphic convexity
32E05 Holomorphically convex complex spaces, reduction theory
32E10 Stein spaces, Stein manifolds
32E20 Polynomial convexity
32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation
32E35 Global boundary behavior of holomorphic functions
32E40 The Levi problem
32E99 None of the above, but in this section
32Fxx Geometric convexity
32F10 q-convexity, q-concavity
32F17 Other notions of convexity
32F18 Finite-type conditions
32F27 Topological consequences of geometric convexity
32F32 Analytical consequences of geometric convexity (vanishing theorems, etc.)
32F45 Invariant metrics and pseudodistances
32F99 None of the above, but in this section
32Gxx Deformations of analytic structures
32G05 Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
32G07 Deformations of special (e.g. CR) structures
32G08 Deformations of fiber bundles
32G10 Deformations of submanifolds and subspaces
32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10} [See also 14H15, 14J15]
32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx]
32G20 Period matrices, variation of Hodge structure; degenerations [See also 14D05, 14D07, 14K30]
32G34 Moduli and deformations for ordinary differential equations (e.g. Khnizhnik-Zamolodchikov equation) [See also 34Mxx]
32G81 Applications to physics
32G99 None of the above, but in this section
32Hxx Holomorphic mappings and correspondences
32H02 Holomorphic mappings, (holomorphic) embeddings and related questions
32H04 Meromorphic mappings
32H12 Boundary uniqueness of mappings
32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22}
32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22}
32H35 Proper mappings, finiteness theorems
32H40 Boundary regularity of mappings
32H50 Iteration problems
32H99 None of the above, but in this section
32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx}
32J05 Compactification of analytic spaces
32J10 Algebraic dependence theorems
32J15 Compact surfaces
32J17 Compact 3-folds
32J18 Compact n-folds
32J25 Transcendental methods of algebraic geometry [See also 14C30]
32J27 Compact Kähler manifolds: generalizations, classification
32J81 Applications to physics
32J99 None of the above, but in this section
32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32K05 Banach analytic spaces [See also 58Bxx]
32K07 Formal and graded complex spaces [See also 58C50]
32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25]
32K99 None of the above, but in this section
32Lxx Holomorphic fiber spaces [See also 55Rxx]
32L05 Holomorphic bundles and generalizations
32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 14F05, 18F20, 55N30]
32L15 Bundle convexity [See also 32F10]
32L20 Vanishing theorems
32L25 Twistor theory, double fibrations [See also 53C28]
32L81 Applications to physics
32L99 None of the above, but in this section
32Mxx Complex spaces with a group of automorphisms
32M05 Complex Lie groups, automorphism groups acting on complex spaces [See also 22E10]
32M10 Homogeneous complex manifolds [See also 14M17, 57T15]
32M12 Almost homogeneous manifolds and spaces [See also 14M17]
32M15 Hermitian symmetric spaces, bounded symmetric domains, Jordan algebras [See also 22E10, 22E40, 53C35, 57T15]
32M17 Automorphism groups of $\mathbf{C}^n$ and affine manifolds
32M25 Complex vector fields
32M99 None of the above, but in this section
32Nxx Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35]
32N05 General theory of automorphic functions of several complex variables
32N10 Automorphic forms
32N15 Automorphic functions in symmetric domains
32N99 None of the above, but in this section
32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32Qxx Complex manifolds
32Q05 Negative curvature manifolds
32Q10 Positive curvature manifolds
32Q15 Kähler manifolds
32Q20 Kähler-Einstein manifolds [See also 53Cxx]
32Q25 Calabi-Yau theory
32Q28 Stein manifolds
32Q30 Uniformization
32Q35 Complex manifolds as subdomains of Euclidean space
32Q40 Embedding theorems
32Q45 Hyperbolic and Kobayashi hyperbolic manifolds
32Q55 Topological aspects of complex manifolds
32Q57 Classification theorems
32Q60 Almost complex manifolds
32Q65 Pseudoholomorphic curves
32Q99 None of the above, but in this section
32Sxx Singularities [See also 58Kxx]
32S05 Local singularities [See also 14J17]
32S10 Invariants of analytic local rings
32S15 Equisingularity (topological and analytic) [See also 14E15]
32S20 Global theory of singularities; cohomological properties [See also 14E15]
32S22 Relations with arrangements of hyperplanes [See also 52C35]
32S25 Surface and hypersurface singularities [See also 14J17]
32S30 Deformations of singularities; vanishing cycles [See also 14B07]
32S35 Mixed Hodge theory of singular varieties [See also 14C30, 14D07]
32S40 Monodromy; relations with differential equations and D-modules
32S45 Modifications; resolution of singularities [See also 14E15]

32S50 Topological aspects: Lefschetz theorems, topological classification, invariants
32S55 Milnor fibration; relations with knot theory [See also 57M25, 57Q45]
32S60 Stratifications; constructible sheaves; intersection cohomology [See also 58Kxx]
32S65 Singularities of holomorphic vector fields and foliations
32S70 Other operations on singularities
32S99 None of the above, but in this section
32Txx Pseudoconvex domains
32T05 Domains of holomorphy
32T15 Strongly pseudoconvex domains
32T20 Worm domains
32T25 Finite type domains
32T27 Geometric and analytic invariants on weakly pseudoconvex boundaries
32T35 Exhaustion functions
32T40 Peak functions
32T99 None of the above, but in this section
32Uxx Pluripotential theory
32U05 Plurisubharmonic functions and generalizations [See also 31C10]
32U10 Plurisubharmonic exhaustion functions
32U15 General pluripotential theory
32U20 Capacity theory and generalizations
32U25 Lelong numbers
32U30 Removable sets
32U35 Pluricomplex Green functions
32U40 Currents
32U99 None of the above, but in this section
32Vxx CR manifolds
32V05 CR structures, CR operators, and generalizations
32V10 CR functions
32V15 CR manifolds as boundaries of domains
32V20 Analysis on CR manifolds
32V25 Extension of functions and other analytic objects from CR manifolds
32V30 Embeddings of CR manifolds
32V35 Finite type conditions on CR manifolds
32V40 Real submanifolds in complex manifolds
32V99 None of the above, but in this section
32Wxx Differential operators in several variables
32W05 $\overline{\partial}$ and $\overline{\partial}$-Neumann operators
32W10 $\overline{\partial}_b$ and $\overline{\partial}_b$-Neumann operators
32W20 Complex Monge-Ampère operators
32W25 Pseudodifferential operators in several complex variables
32W30 Heat kernels in several complex variables
32W50 Other partial differential equations of complex analysis
32W99 None of the above, but in this section

33–XX SPECIAL FUNCTIONS (33–XX deals with the properties of functions as functions){For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx}
33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
33–01 Instructional exposition (textbooks, tutorial papers, etc.)
33–02 Research exposition (monographs, survey articles)
33–03 Historical (must also be assigned at least one classification number from Section 01)
33–04 Explicit machine computation and programs (not the theory of computation or programming)
33–06 Proceedings, conferences, collections, etc.
33Bxx Elementary classical functions
33B10 Exponential and trigonometric functions
33B15 Gamma, beta and polygamma functions
33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)
33B30 Higher logarithm functions
33B99 None of the above, but in this section
33Cxx Hypergeometric functions
33C05 Classical hypergeometric functions, ${}_2F_1$
33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$
33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$
33C20 Generalized hypergeometric series, ${}_pF_q$
33C45 Orthogonal polynomials and functions of hypergeometric type (Jacobi, Laguerre, Hermite, Askey scheme, etc.) [See also 42C05 for general orthogonal polynomials and functions]
33C47 Other special orthogonal polynomials and functions
33C50 Orthogonal polynomials and functions in several variables expressible in terms of special functions in one variable
33C52 Orthogonal polynomials and functions associated with root systems
33C55 Spherical harmonics
33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)
33C65 Appell, Horn and Lauricella functions
33C67 Hypergeometric functions associated with root systems
33C70 Other hypergeometric functions and integrals in several variables
33C75 Elliptic integrals as hypergeometric functions
33C80 Connections with groups and algebras, and related topics
33C90 Applications
33C99 None of the above, but in this section
33Dxx Basic hypergeometric functions
33D05 q-gamma functions, q-beta functions and integrals
33D15 Basic hypergeometric functions in one variable, ${}_r\varphi_s$
33D45 Basic orthogonal polynomials and functions (Askey-Wilson polynomials, etc.)
33D50 Orthogonal polynomials and functions in several variables expressible in terms of basic hypergeometric functions in one variable
33D52 Basic orthogonal polynomials and functions associated with root systems (Macdonald polynomials, etc.)
33D60 Basic hypergeometric integrals and functions defined by them
33D65 Bibasic functions and multiple bases
33D67 Basic hypergeometric functions associated with root systems
33D70 Other basic hypergeometric functions and integrals in several variables
33D80 Connections with quantum groups, Chevalley groups, p-adic groups, Hecke algebras, and related topics
33D90 Applications
33D99 None of the above, but in this section
33Exx Other special functions
33E05 Elliptic functions and integrals
33E10 Lamé, Mathieu, and spheroidal wave functions
33E12 Mittag-Leffler functions and generalizations
33E15 Other wave functions
33E17 Painlevé-type functions
33E20 Other functions defined by series and integrals
33E30 Other functions coming from differential, difference and integral equations
33E50 Special functions in characteristic p (gamma functions, etc.)
33E99 None of the above, but in this section
33Fxx Computational aspects
33F05 Numerical approximation [See also 65D20]
33F10 Symbolic computation (Gosper and Zeilberger algorithms, etc.) [See also 68W30]
33F99 None of the above, but in this section

34–XX ORDINARY DIFFERENTIAL EQUATIONS
34–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
34–01 Instructional exposition (textbooks, tutorial papers, etc.)
34–02 Research exposition (monographs, survey articles)
34–03 Historical (must also be assigned at least one classification number from Section 01)
34–04 Explicit machine computation and programs (not the theory of computation or programming)
34–06 Proceedings, conferences, collections, etc.
34Axx General theory
34A05 Explicit solutions and reductions
34A09 Implicit equations, differential-algebraic equations [See also 65L80]
34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions
34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44–XX]
34A26 Geometric methods in differential equations
34A30 Linear equations and systems, general
34A34 Nonlinear equations and systems, general
34A35 Differential equations of infinite order
34A36 Discontinuous equations
34A37 Differential equations with impulses
34A40 Differential inequalities [See also 26D20]
34A45 Theoretical approximation of solutions {For numerical analysis, see 65Lxx}
34A55 Inverse problems
34A60 Differential inclusions [See also 49J24, 49K24]
34A99 None of the above, but in this section
34Bxx Boundary value problems {For ordinary differential operators, see 34Lxx}
34B05 Linear boundary value problems
34B07 Linear boundary value problems with nonlinear dependence on the spectral parameter
34B08 Multi-parameter boundary value problems
34B09 Boundary value problems with an indefinite weight
34B10 Multipoint boundary value problems
34B15 Nonlinear boundary value problems
34B16 Singular nonlinear boundary value problems
34B18 Positive solutions of nonlinear boundary value problems
34B20 Weyl theory and its generalizations
34B24 Sturm-Liouville theory [See also 34Lxx]
34B27 Green functions

34B30 Special equations (Mathieu, Hill, Bessel, etc.)
34B37 Boundary value problems with impulses
34B40 Boundary value problems on infinite intervals
34B45 Boundary value problems on graphs and networks
34B60 Applications
34B99 None of the above, but in this section
34Cxx Qualitative theory [See also 37–XX]
34C05 Location of integral curves, singular points, limit cycles
34C07 Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications)
34C08 Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.)
34C10 Oscillation theory, zeros, disconjugacy and comparison theory
34C11 Growth, boundedness, comparison of solutions
34C12 Monotone systems
34C14 Symmetries, invariants
34C15 Nonlinear oscillations, coupled oscillators
34C20 Transformation and reduction of equations and systems, normal forms
34C23 Bifurcation [See mainly 37Gxx]
34C25 Periodic solutions
34C26 Relaxation oscillations
34C27 Almost periodic solutions
34C28 Complex behavior, chaotic systems [See mainly 37Dxx]
34C29 Averaging method
34C30 Manifolds of solutions
34C37 Homoclinic and heteroclinic solutions
34C40 Equations and systems on manifolds
34C41 Equivalence, asymptotic equivalence
34C45 Method of integral manifolds
34C55 Hysteresis
34C60 Applications
34C99 None of the above, but in this section
34Dxx Stability theory [See also 37C75, 93Dxx]
34D05 Asymptotic properties
34D08 Characteristic and Lyapunov exponents
34D09 Dichotomy, trichotomy
34D10 Perturbations
34D15 Singular perturbations
34D20 Lyapunov stability
34D23 Global stability
34D30 Structural stability and analogous concepts [See also 37C20]
34D35 Stability of manifolds of solutions
34D40 Ultimate boundedness
34D45 Attractors [See also 37C70, 37D45]
34D99 None of the above, but in this section
34Exx Asymptotic theory
34E05 Asymptotic expansions
34E10 Perturbations, asymptotics
34E13 Multiple scale methods
34E15 Singular perturbations, general theory
34E18 Methods of nonstandard analysis
34E20 Singular perturbations, turning point theory, WKB methods
34E99 None of the above, but in this section
34F05 Equations and systems with randomness [See also 34K50, 60H10, 93E03]
34Gxx Differential equations in abstract spaces [See also 34Lxx, 37Kxx, 47Dxx, 47Hxx, 47Jxx, 58D25]
34G10 Linear equations [See also 47D06, 47D09]
34G20 Nonlinear equations [See also 47Hxx, 47Jxx]
34G25 Evolution inclusions
34G99 None of the above, but in this section
34H05 Control problems [See also 49J25, 49K25, 93C15]
34Kxx Functional-differential and differential-difference equations, with or without deviating arguments [See also 37–XX]
34K05 General theory
34K06 Linear functional-differential equations
34K07 Theoretical approximation of solutions
34K10 Boundary value problems
34K11 Oscillation theory
34K12 Growth, boundedness, comparison of solutions
34K13 Periodic solutions
34K14 Almost periodic solutions
34K17 Transformation and reduction of equations and systems, normal forms
34K18 Bifurcation theory
34K19 Invariant manifolds
34K20 Stability theory
34K23 Complex (chaotic) behavior of solutions
34K25 Asymptotic theory
34K26 Singular perturbations
34K28 Numerical approximation of solutions
34K29 Inverse problems
34K30 Equations in abstract spaces [See also 34Gxx, 47Dxx, 47Jxx]
34K35 Control problems [See also 49J25, 49K25, 93C15]
34K40 Neutral equations
34K45 Equations with impulses
34K50 Stochastic delay equations [See also 34F05, 60Hxx]
34K60 Applications
34K99 None of the above, but in this section
34Lxx Ordinary differential operators [See also 47E05]
34L05 General spectral theory
34L10 Eigenfunction expansions, completeness of eigenfunctions
34L15 Estimation of eigenvalues, upper and lower bounds
34L16 Numerical approximation of eigenvalues and of other parts of the spectrum
34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions
34L25 Scattering theory
34L30 Nonlinear ordinary differential operators
34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)
34L99 None of the above, but in this section
34Mxx Differential equations in the complex domain [See also 30Dxx, 32G34]
34M05 Entire and meromorphic solutions
34M10 Oscillation, growth of solutions
34M15 Algebraic aspects (differential-algebraic, hypertranscendence, group-theoretical)
34M20 Nonanalytic aspects
34M25 Formal solutions, transform techniques
34M30 Asymptotics, summation methods
34M35 Singularities, monodromy, local behavior of solutions, normal forms
34M37 Resurgence phenomena
34M40 Stokes phenomena and connection problems (linear and nonlinear)
34M45 Differential equations on complex manifolds
34M50 Inverse problems (Riemann-Hilbert, inverse differential Galois, etc.)
34M55 Painlevé and other special equations; classification, hierarchies; isomonodromic deformations
34M60 Singular perturbation problems in the complex domain (complex WKB, turning points, steepest descent) [See also 34E20]
34M99 None of the above, but in this section

35–XX PARTIAL DIFFERENTIAL EQUATIONS
35–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
35–01 Instructional exposition (textbooks, tutorial papers, etc.)
35–02 Research exposition (monographs, survey articles)
35–03 Historical (must also be assigned at least one classification number from Section 01)
35–04 Explicit machine computation and programs (not the theory of computation or programming)
35–06 Proceedings, conferences, collections, etc.
35Axx General theory
35A05 General existence and uniqueness theorems
35A07 Local existence and uniqueness theorems [See also 35Hxx, 35Sxx]
35A08 Fundamental solutions
35A10 Cauchy-Kovalevskaya theorems
35A15 Variational methods
35A17 Parametrices
35A18 Wave front sets
35A20 Analytic methods, singularities
35A21 Propagation of singularities
35A22 Transform methods (e.g. integral transforms)
35A25 Other special methods
35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [See also 32C38, 58J15]
35A30 Geometric theory, characteristics, transformations [See also 58J70, 58J72]
35A35 Theoretical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx}
35A99 None of the above, but in this section
35Bxx Qualitative properties of solutions
35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)
35B10 Periodic solutions
35B15 Almost periodic solutions
35B20 Perturbations
35B25 Singular perturbations
35B27 Homogenization; partial differential equations in media with periodic structure [See also 74Qxx, 76M50]
35B30 Dependence of solutions of PDE on initial and boundary data, parameters [See also 37Cxx]
35B32 Bifurcation [See also 37Gxx, 37K50]
35B33 Critical exponents
35B34 Resonances
35B35 Stability, boundedness

35B37 PDE in connection with control problems [See also 49J20, 49K20, 93C20]
35B38 Critical points
35B40 Asymptotic behavior of solutions
35B41 Attractors
35B42 Inertial manifolds
35B45 A priori estimates
35B50 Maximum principles
35B60 Continuation and prolongation of solutions of PDE [See also 58A15, 58A17, 58Hxx]
35B65 Smoothness and regularity of solutions of PDE
35B99 None of the above, but in this section
35Cxx Representations of solutions
35C05 Solutions in closed form
35C10 Series solutions, expansion theorems
35C15 Integral representations of solutions of PDE
35C20 Asymptotic expansions
35C99 None of the above, but in this section
35Dxx Generalized solutions of partial differential equations
35D05 Existence of generalized solutions
35D10 Regularity of generalized solutions
35D99 None of the above, but in this section
35Exx Equations and systems with constant coefficients [See also 35N05]
35E05 Fundamental solutions
35E10 Convexity properties
35E15 Initial value problems
35E20 General theory
35E99 None of the above, but in this section
35Fxx General first-order equations and systems
35F05 General theory of linear first-order PDE
35F10 Initial value problems for linear first-order PDE, linear evolution equations
35F15 Boundary value problems for linear first-order PDE
35F20 General theory of nonlinear first-order PDE
35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations
35F30 Boundary value problems for nonlinear first-order PDE
35F99 None of the above, but in this section
35Gxx General higher-order equations and systems
35G05 General theory of linear higher-order PDE
35G10 Initial value problems for linear higher-order PDE, linear evolution equations
35G15 Boundary value problems for linear higher-order PDE
35G20 General theory of nonlinear higher-order PDE
35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations
35G30 Boundary value problems for nonlinear higher-order PDE
35G99 None of the above, but in this section
35Hxx Close-to-elliptic equations
35H10 Hypoelliptic equations
35H20 Subelliptic equations
35H30 Quasi-elliptic equations
35H99 None of the above, but in this section
35Jxx Partial differential equations of elliptic type [See also 58J10, 58J20]
35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [See also 31Axx, 31Bxx]
35J10 Schrödinger operator [See also 35Pxx]
35J15 General theory of second-order, elliptic equations
35J20 Variational methods for second-order, elliptic equations
35J25 Boundary value problems for second-order, elliptic equations
35J30 General theory of higher-order, elliptic equations [See also 31A30, 31B30]
35J35 Variational methods for higher-order, elliptic equations
35J40 Boundary value problems for higher-order, elliptic equations
35J45 General theory of elliptic systems of PDE
35J50 Variational methods for elliptic systems
35J55 Boundary value problems for elliptic systems
35J60 Nonlinear PDE of elliptic type
35J65 Nonlinear boundary value problems for linear elliptic PDE; boundary value problems for nonlinear elliptic PDE
35J67 Boundary values of solutions to elliptic PDE
35J70 Elliptic partial differential equations of degenerate type
35J85 Unilateral problems and variational inequalities for elliptic PDE [See also 35R35, 49J40]
35J99 None of the above, but in this section
35Kxx Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 35R35, 58J35]
35K05 Heat equation
35K10 General theory of second-order, parabolic equations
35K15 Initial value problems for second-order, parabolic equations
35K20 Boundary value problems for second-order, parabolic equations
35K25 General theory of higher-order, parabolic equations
35K30 Initial value problems for higher-order, parabolic equations
35K35 Boundary value problems for higher-order, parabolic equations
35K40 General theory of parabolic systems of PDE
35K45 Initial value problems for parabolic systems
35K50 Boundary value problems for parabolic systems
35K55 Nonlinear PDE of parabolic type
35K57 Reaction-diffusion equations
35K60 Nonlinear boundary value problems for linear parabolic PDE; boundary value problems for nonlinear parabolic PDE
35K65 Parabolic partial differential equations of degenerate type
35K70 Ultraparabolic, pseudoparabolic PDE, etc.
35K85 Unilateral problems and variational inequalities for parabolic PDE [See also 35R35, 49J40]
35K90 Abstract parabolic evolution equations
35K99 None of the above, but in this section
35Lxx Partial differential equations of hyperbolic type [See also 58J45]
35L05 Wave equation
35L10 General theory of second-order, hyperbolic equations
35L15 Initial value problems for second-order, hyperbolic equations
35L20 Boundary value problems for second-order, hyperbolic equations
35L25 General theory of higher-order, hyperbolic equations
35L30 Initial value problems for higher-order, hyperbolic equations
35L35 Boundary value problems for higher-order, hyperbolic equations
35L40 General theory of hyperbolic systems of first-order PDE
35L45 Initial value problems for hyperbolic systems of first-order PDE
35L50 Boundary value problems for hyperbolic systems of first-order PDE
35L55 Hyperbolic systems of higher-order PDE
35L60 Nonlinear first-order PDE of hyperbolic type
35L65 Conservation laws
35L67 Shocks and singularities [See also 58Kxx, 76L05]
35L70 Nonlinear second-order PDE of hyperbolic type
35L75 Nonlinear hyperbolic PDE of higher (> 2) order
35L80 Hyperbolic PDE of degenerate type
35L82 Pseudohyperbolic equations
35L85 Unilateral problems; variational inequalities for hyperbolic PDE [See also 35R35, 49J40]
35L90 Abstract hyperbolic evolution equations
35L99 None of the above, but in this section
35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80}
35M10 PDE of mixed type
35M20 PDE of composite type
35M99 None of the above, but in this section
35Nxx Overdetermined systems [See also 58Hxx, 58J10, 58J15]
35N05 Overdetermined systems with constant coefficients
35N10 Overdetermined systems with variable coefficients (general)
35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10]
35N99 None of the above, but in this section
35Pxx Spectral theory and eigenvalue problems for partial differential operators [See also 47Axx, 47Bxx, 47F05]
35P05 General spectral theory of PDE
35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO
35P15 Estimation of eigenvalues, upper and lower bounds
35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO
35P25 Scattering theory for PDE [See also 47A40]
35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO
35P99 None of the above, but in this section
35Qxx Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05]
35Q05 Euler-Poisson-Darboux equation and generalizations
35Q15 Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]
35Q30 Stokes and Navier-Stokes equations [See also 76D05, 76D07, 76N10]
35Q35 Other equations arising in fluid mechanics
35Q40 Equations from quantum mechanics
35Q51 Solitons [See also 37K40]
35Q53 KdV-like equations (Korteweg-de Vries, Burgers, sine-Gordon, sinh-Gordon, etc.) [See also 37K10]
35Q55 NLS-like (nonlinear Schrödinger) equations [See also 37K10]
35Q58 Other completely integrable equations [See also 37J35, 37K10]
35Q60 Equations of electromagnetic theory and optics
35Q72 Other equations from mechanics
35Q75 PDE in relativity
35Q80 Applications of PDE in areas other than physics
35Q99 None of the above, but in this section
35Rxx Miscellaneous topics involving partial differential equations {For equations on manifolds, see 58Jxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15}
35R05 PDE with discontinuous coefficients or data
35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments
35R12 Impulsive partial differential equations

35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [See also 46Gxx, 58D25]
35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H20, 47Jxx]
35R25 Improperly posed problems for PDE
35R30 Inverse problems (undetermined coefficients, etc.) for PDE
35R35 Free boundary problems for PDE
35R45 Partial differential inequalities
35R50 Partial differential equations of infinite order
35R60 Partial differential equations with randomness [See also 60H15]
35R70 PDE with multivalued right-hand sides
35R99 None of the above, but in this section
35Sxx Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40]
35S05 General theory of PsDO
35S10 Initial value problems for PsDO
35S15 Boundary value problems for PsDO
35S30 Fourier integral operators
35S35 Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15]
35S50 Paradifferential operators
35S99 None of the above, but in this section

37–XX DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX]
37–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
37–01 Instructional exposition (textbooks, tutorial papers, etc.)
37–02 Research exposition (monographs, survey articles)
37–03 Historical (must also be assigned at least one classification number from Section 01)
37–04 Explicit machine computation and programs (not the theory of computation or programming)
37–06 Proceedings, conferences, collections, etc.
37Axx Ergodic theory [See also 28Dxx]
37A05 Measure-preserving transformations
37A10 One-parameter continuous families of measure-preserving transformations
37A15 General groups of measure-preserving transformations [See mainly 22Fxx]
37A17 Homogeneous flows [See also 22Fxx]
37A20 Orbit equivalence, cocycles, ergodic equivalence relations
37A25 Ergodicity, mixing, rates of mixing
37A30 Ergodic theorems, spectral theory, Markov operators {For operator ergodic theory, see mainly 47A35}
37A35 Entropy and other invariants, isomorphism, classification
37A40 Nonsingular (and infinite-measure preserving) transformations
37A45 Relations with number theory and harmonic analysis [See also 11Kxx]
37A50 Relations with probability theory and stochastic processes [See also 60Fxx and 60G10]
37A55 Relations with the theory of C^*-algebras [See mainly 46L55]
37A60 Dynamical systems in statistical mechanics [See also 82Cxx]
37A99 None of the above, but in this section
37Bxx Topological dynamics [See also 54H20]
37B05 Transformations and group actions with special properties (minimality, distality, proximality, etc.)
37B10 Symbolic dynamics [See also 37Cxx, 37Dxx]
37B15 Cellular automata
37B20 Notions of recurrence
37B25 Lyapunov functions and stability; attractors, repellers
37B30 Index theory, Morse-Conley indices
37B35 Gradient-like and recurrent behavior; isolated (locally-maximal) invariant sets
37B40 Topological entropy
37B45 Continua theory in dynamics
37B50 Multi-dimensional shifts of finite type, tiling dynamics
37B55 Nonautonomous dynamical systems
37B99 None of the above, but in this section
37Cxx Smooth dynamical systems: general theory [See also 34Cxx, 34Dxx]
37C05 Smooth mappings and diffeomorphisms
37C10 Vector fields, flows, ordinary differential equations
37C15 Topological and differentiable equivalence, conjugacy, invariants, moduli, classification
37C20 Generic properties, structural stability
37C25 Fixed points, periodic points, fixed-point index theory
37C27 Periodic orbits of vector fields and flows
37C29 Homoclinic and heteroclinic orbits
37C30 Zeta functions, (Ruelle-Frobenius) transfer operators, and other functional analytic techniques in dynamical systems
37C35 Orbit growth
37C40 Smooth ergodic theory, invariant measures [See also 37Dxx]
37C45 Dimension theory of dynamical systems
37C50 Approximate trajectories (pseudotrajectories, shadowing, etc.)
37C55 Periodic and quasiperiodic flows and diffeomorphisms
37C60 Nonautonomous smooth dynamical systems [See also 37B55]
37C65 Monotone flows
37C70 Attractors and repellers, topological structure
37C75 Stability theory
37C80 Symmetries, equivariant dynamical systems
37C85 Dynamics of group actions other than $\mathbf{Z}$ and $\mathbf{R}$, and foliations [See mainly 22Fxx, and also 57R30, 57Sxx]
37C99 None of the above, but in this section
37Dxx Dynamical systems with hyperbolic behavior
37D05 Hyperbolic orbits and sets
37D10 Invariant manifold theory
37D15 Morse-Smale systems
37D20 Uniformly hyperbolic systems (expanding, Anosov, Axiom A, etc.)
37D25 Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)
37D30 Partially hyperbolic systems and dominated splittings
37D35 Thermodynamic formalism, variational principles, equilibrium states
37D40 Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)
37D45 Strange attractors, chaotic dynamics
37D50 Hyperbolic systems with singularities (billiards, etc.)
37D99 None of the above, but in this section
37Exx Low-dimensional dynamical systems
37E05 Maps of the interval (piecewise continuous, continuous, smooth)
37E10 Maps of the circle
37E15 Combinatorial dynamics (types of periodic orbits)
37E20 Universality, renormalization [See also 37F25]
37E25 Maps of trees and graphs
37E30 Homeomorphisms and diffeomorphisms of planes and surfaces
37E35 Flows on surfaces
37E40 Twist maps
37E45 Rotation numbers and vectors
37E99 None of the above, but in this section
37Fxx Complex dynamical systems [See also 30D05, 32H50]
37F05 Relations and correspondences
37F10 Polynomials; rational maps; entire and meromorphic functions [See also 32A10, 32A20, 32H02, 32H04]
37F15 Expanding maps; hyperbolicity; structural stability
37F20 Combinatorics and topology
37F25 Renormalization
37F30 Quasiconformal methods and Teichmüller theory; Fuchsian and Kleinian groups as dynamical systems
37F35 Conformal densities and Hausdorff dimension
37F40 Geometric limits
37F45 Holomorphic families of dynamical systems; the Mandelbrot set; bifurcations
37F50 Small divisors, rotation domains and linearization; Fatou and Julia sets
37F75 Holomorphic foliations and vector fields [See also 32M25, 32S65, 34Mxx]
37F99 None of the above, but in this section
37Gxx Local and nonlocal bifurcation theory [See also 34C23, 34K18]
37G05 Normal forms
37G10 Bifurcations of singular points
37G15 Bifurcations of limit cycles and periodic orbits
37G20 Hyperbolic singular points with homoclinic trajectories
37G25 Bifurcations connected with nontransversal intersection
37G30 Infinite nonwandering sets arising in bifurcations
37G35 Attractors and their bifurcations
37G40 Symmetries, equivariant bifurcation theory
37G99 None of the above, but in this section
37Hxx Random dynamical systems [See also 15A52, 34D08, 34F05, 47B80, 70L05, 82C05, 93Exx]
37H05 Foundations, general theory of cocycles, algebraic ergodic theory [See also 37Axx]
37H10 Generation, random and stochastic difference and differential equations [See also 34F05, 34K50, 60H10, 60H15]
37H15 Multiplicative ergodic theory, Lyapunov exponents [See also 34D08, 37Axx, 37Cxx, 37Dxx]
37H20 Bifurcation theory [See also 37Gxx]
37H99 None of the above, but in this section
37Jxx Finite-dimensional Hamiltonian, Lagrangian, contact, and nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx]
37J05 General theory, relations with symplectic geometry and topology
37J10 Symplectic mappings, fixed points
37J15 Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20]
37J20 Bifurcation problems
37J25 Stability problems

37J30 Obstructions to integrability (nonintegrability criteria)
37J35 Completely integrable systems, topological structure of phase space, integration methods
37J40 Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion
37J45 Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods
37J50 Action-minimizing orbits and measures
37J55 Contact systems [See also 53D10]
37J60 Nonholonomic dynamical systems [See also 70F25]
37J99 None of the above, but in this section

37Kxx Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx]
37K05 Hamiltonian structures, symmetries, variational principles, conservation laws
37K10 Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.)
37K15 Integration of completely integrable systems by inverse spectral and scattering methods
37K20 Relations with algebraic geometry, complex analysis, special functions [See also 14H70]
37K25 Relations with differential geometry
37K30 Relations with infinite-dimensional Lie algebras and other algebraic structures
37K35 Lie-Bäcklund and other transformations
37K40 Soliton theory, asymptotic behavior of solutions
37K45 Stability problems
37K50 Bifurcation problems
37K55 Perturbations, KAM for infinite-dimensional systems
37K60 Lattice dynamics [See also 37L60]
37K65 Hamiltonian systems on groups of diffeomorphisms and on manifolds of mappings and metrics
37K99 None of the above, but in this section

37Lxx Infinite-dimensional dissipative dynamical systems [See also 35Bxx, 35Qxx]
37L05 General theory, nonlinear semigroups, evolution equations
37L10 Normal forms, center manifold theory, bifurcation theory
37L15 Stability problems
37L20 Symmetries
37L25 Inertial manifolds and other invariant attracting sets
37L30 Attractors and their dimensions, Lyapunov exponents
37L40 Invariant measures
37L45 Hyperbolicity; Lyapunov functions
37L50 Noncompact semigroups; dispersive equations; perturbations of Hamiltonian systems
37L55 Infinite-dimensional random dynamical systems; stochastic equations [See also 35R60, 60H10, 60H15]
37L60 Lattice dynamics [See also 37K60]
37L65 Special approximation methods (nonlinear Galerkin, etc.)
37L99 None of the above, but in this section

37Mxx Approximation methods and numerical treatment of dynamical systems [See also 65Pxx]
37M05 Simulation
37M10 Time series analysis
37M15 Symplectic integrators
37M20 Computational methods for bifurcation problems
37M25 Computational methods for ergodic theory (approximation of invariant measures, computation of Lyapunov exponents, entropy)
37M99 None of the above, but in this section

37Nxx Applications
37N05 Dynamical systems in classical and celestial mechanics [See mainly 70Fxx, 70Hxx, 70Kxx]
37N10 Dynamical systems in fluid mechanics, oceanography and meteorology [See mainly 76–XX, especially 76D05, 76F20, 86A05, 86A10]
37N15 Dynamical systems in solid mechanics [See mainly 74Hxx]
37N20 Dynamical systems in other branches of physics (quantum mechanics, general relativity, laser physics)
37N25 Dynamical systems in biology [See mainly 92–XX, but also 91–XX]
37N30 Dynamical systems in numerical analysis
37N35 Dynamical systems in control
37N40 Dynamical systems in optimization and economics
37N99 None of the above, but in this section

39–XX DIFFERENCE AND FUNCTIONAL EQUATIONS

39–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
39–01 Instructional exposition (textbooks, tutorial papers, etc.)
39–02 Research exposition (monographs, survey articles)
39–03 Historical (must also be assigned at least one classification number from Section 01)
39–04 Explicit machine computation and programs (not the theory of computation or programming)
39–06 Proceedings, conferences, collections, etc.

39Axx Difference equations {For dynamical systems, see 37–XX}
39A05 General
39A10 Difference equations, additive
39A11 Stability and asymptotics of difference equations; oscillatory and periodic solutions, etc.
39A12 Discrete version of topics in analysis
39A13 Difference equations, scaling (q-differences) [See also 33Dxx]
39A20 Multiplicative and other generalized difference equations, e.g. of Lyness type
39A70 Difference operators [See also 47B39]
39A99 None of the above, but in this section

39Bxx Functional equations and inequalities [See also 30D05]
39B05 General
39B12 Iteration theory, iterative and composite equations [See also 26A18, 30D05, 37–XX]
39B22 Equations for real functions [See also 26A51, 26B25]
39B32 Equations for complex functions [See also 30D05]
39B42 Matrix and operator equations [See also 47Jxx]
39B52 Equations for functions with more general domains and/or ranges
39B55 Orthogonal additivity and other conditional equations
39B62 Functional inequalities, including subadditivity, convexity, etc. [See also 26A51, 26B25, 26Dxx]
39B72 Systems of functional equations and inequalities
39B82 Stability, separation, extension, and related topics [See also 46A22]
39B99 None of the above, but in this section

40–XX SEQUENCES, SERIES, SUMMABILITY

40–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
40–01 Instructional exposition (textbooks, tutorial papers, etc.)
40–02 Research exposition (monographs, survey articles)
40–03 Historical (must also be assigned at least one classification number from Section 01)
40–04 Explicit machine computation and programs (not the theory of computation or programming)
40–06 Proceedings, conferences, collections, etc.

40Axx Convergence and divergence of infinite limiting processes
40A05 Convergence and divergence of series and sequences
40A10 Convergence and divergence of integrals
40A15 Convergence and divergence of continued fractions [See also 30B70]
40A20 Convergence and divergence of infinite products
40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15}
40A30 Convergence and divergence of series and sequences of functions
40A99 None of the above, but in this section

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

40Cxx General summability methods
40C05 Matrix methods
40C10 Integral methods
40C15 Function-theoretic methods (including power series methods and semicontinuous methods)
40C99 None of the above, but in this section

40Dxx Direct theorems on summability
40D05 General theorems
40D09 Structure of summability fields
40D10 Tauberian constants and oscillation limits
40D15 Convergence factors and summability factors
40D20 Summability and bounded fields of methods
40D25 Inclusion and equivalence theorems
40D99 None of the above, but in this section

40Exx Inversion theorems
40E05 Tauberian theorems, general
40E10 Growth estimates
40E15 Lacunary inversion theorems
40E20 Tauberian constants
40E99 None of the above, but in this section

40F05 Absolute and strong summability

40Gxx Special methods of summability
40G05 Cesàro, Euler, Nörlund and Hausdorff methods
40G10 Abel, Borel and power series methods
40G99 None of the above, but in this section

40H05 Functional analytic methods in summability

40J05 Summability in abstract structures [See also 43A55, 46A35, 46B15]

41–XX APPROXIMATIONS AND EXPANSIONS {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx}

41–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
41–01 Instructional exposition (textbooks, tutorial papers, etc.)
41–02 Research exposition (monographs, survey articles)
41–03 Historical (must also be assigned at least one classification number from Section 01)

41–04 Explicit machine computation and programs (not the theory of computation or programming)
41–06 Proceedings, conferences, collections, etc.
41A05 Interpolation [See also 42A15 and 65D05]
41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10}
41A15 Spline approximation
41A17 Inequalities in approximation (Bernstein, Jackson, Nikol′skiĭ-type inequalities)
41A20 Approximation by rational functions
41A21 Padé approximation
41A25 Rate of convergence, degree of approximation
41A27 Inverse theorems
41A28 Simultaneous approximation
41A29 Approximation with constraints
41A30 Approximation by other special function classes
41A35 Approximation by operators (in particular, by integral operators)
41A36 Approximation by positive operators
41A40 Saturation
41A44 Best constants
41A45 Approximation by arbitrary linear expressions
41A46 Approximation by arbitrary nonlinear expressions; widths and entropy
41A50 Best approximation, Chebyshev systems
41A52 Uniqueness of best approximation
41A55 Approximate quadratures
41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]
41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)
41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
41A80 Remainders in approximation formulas
41A99 Miscellaneous topics

42–XX FOURIER ANALYSIS
42–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
42–01 Instructional exposition (textbooks, tutorial papers, etc.)
42–02 Research exposition (monographs, survey articles)
42–03 Historical (must also be assigned at least one classification number from Section 01)
42–04 Explicit machine computation and programs (not the theory of computation or programming)
42–06 Proceedings, conferences, collections, etc.
42Axx Fourier analysis in one variable
42A05 Trigonometric polynomials, inequalities, extremal problems
42A10 Trigonometric approximation
42A15 Trigonometric interpolation
42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}
42A20 Convergence and absolute convergence of Fourier and trigonometric series
42A24 Summability and absolute summability of Fourier and trigonometric series
42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42A45 Multipliers
42A50 Conjugate functions, conjugate series, singular integrals
42A55 Lacunary series of trigonometric and other functions; Riesz products
42A61 Probabilistic methods
42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
42A65 Completeness of sets of functions
42A70 Trigonometric moment problems
42A75 Classical almost periodic functions, mean periodic functions [See also 43A60]
42A82 Positive definite functions
42A85 Convolution, factorization
42A99 None of the above, but in this section
42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30}
42B05 Fourier series and coefficients
42B08 Summability
42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42B15 Multipliers
42B20 Singular integrals (Calderón-Zygmund, etc.)
42B25 Maximal functions, Littlewood-Paley theory
42B30 H^p-spaces
42B35 Function spaces arising in harmonic analysis
42B99 None of the above, but in this section
42Cxx Nontrigonometric Fourier analysis
42C05 Orthogonal functions and polynomials, general theory [See also 33C45, 33C50, 33D45]
42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
42C20 Rearrangements and other transformations of Fourier and other orthogonal series
42C25 Uniqueness and localization for orthogonal series
42C30 Completeness of sets of functions
42C40 Wavelets
42C99 None of the above, but in this section

43–XX ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx}
43–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
43–01 Instructional exposition (textbooks, tutorial papers, etc.)
43–02 Research exposition (monographs, survey articles)
43–03 Historical (must also be assigned at least one classification number from Section 01)
43–04 Explicit machine computation and programs (not the theory of computation or programming)
43–06 Proceedings, conferences, collections, etc.
43A05 Measures on groups and semigroups, etc.
43A07 Means on groups, semigroups, etc.; amenable groups
43A10 Measure algebras on groups, semigroups, etc.
43A15 L^p-spaces and other function spaces on groups, semigroups, etc.
43A17 Analysis on ordered groups, H^p-theory
43A20 L^1-algebras on groups, semigroups, etc.
43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
43A32 Other transforms and operators of Fourier type
43A35 Positive definite functions on groups, semigroups, etc.
43A40 Character groups and dual objects
43A45 Spectral synthesis on groups, semigroups, etc.
43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
43A50 Convergence of Fourier series and of inverse transforms
43A55 Summability methods on groups, semigroups, etc. [See also 40J05]
43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
43A62 Hypergroups
43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
43A70 Analysis on specific locally compact abelian groups [See also 11R56, 22B05]
43A75 Analysis on specific compact groups
43A77 Analysis on general compact groups
43A80 Analysis on other specific Lie groups [See also 22Exx]
43A85 Analysis on homogeneous spaces
43A90 Spherical functions [See also 22E45, 22E46, 33C65]
43A95 Categorical methods [See also 46Mxx]
43A99 Miscellaneous topics

44–XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}
44–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
44–01 Instructional exposition (textbooks, tutorial papers, etc.)
44–02 Research exposition (monographs, survey articles)
44–03 Historical (must also be assigned at least one classification number from Section 01)
44–04 Explicit machine computation and programs (not the theory of computation or programming)
44–06 Proceedings, conferences, collections, etc.
44A05 General transforms [See also 42A38]
44A10 Laplace transform
44A12 Radon transform [See also 92C55]
44A15 Special transforms (Legendre, Hilbert, etc.)
44A20 Transforms of special functions
44A30 Multiple transforms
44A35 Convolution
44A40 Calculus of Mikusiński and other operational calculi
44A45 Classical operational calculus
44A55 Discrete operational calculus
44A60 Moment problems

44A99 Miscellaneous topics

45–XX INTEGRAL EQUATIONS
45–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
45–01 Instructional exposition (textbooks, tutorial papers, etc.)
45–02 Research exposition (monographs, survey articles)
45–03 Historical (must also be assigned at least one classification number from Section 01)
45–04 Explicit machine computation and programs (not the theory of computation or programming)
45–06 Proceedings, conferences, collections, etc.
45A05 Linear integral equations
45B05 Fredholm integral equations
45C05 Eigenvalue problems [See also 34Lxx, 35Pxx, 45P05, 47A75]
45D05 Volterra integral equations [See also 34A12]
45Exx Singular integral equations [See also 30E20, 30E25, 44A15, 44A35]
45E05 Integral equations with kernels of Cauchy type [See also 35J15]
45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35]
45E99 None of the above, but in this section
45Fxx Systems of linear integral equations
45F05 Systems of nonsingular linear integral equations
45F10 Dual, triple, etc., integral and series equations
45F15 Systems of singular linear integral equations
45F99 None of the above, but in this section
45Gxx Nonlinear integral equations [See also 47H30, 47Jxx]
45G05 Singular nonlinear integral equations
45G10 Other nonlinear integral equations
45G15 Systems of nonlinear integral equations
45H05 Miscellaneous special kernels [See also 44A15]
45J05 Integro-ordinary differential equations [See also 34K05, 34K30, 47G20]
45K05 Integro-partial differential equations [See also 34K30, 35R10, 47G20]
45L05 Theoretical approximation of solutions {For numerical analysis, see 65Rxx}
45Mxx Qualitative behavior
45M05 Asymptotics
45M10 Stability theory
45M15 Periodic solutions
45M20 Positive solutions
45M99 None of the above, but in this section
45N05 Abstract integral equations, integral equations in abstract spaces
45P05 Integral operators [See also 47B38, 47G10]
45Q05 Inverse problems
45R05 Random integral equations [See also 60H20]

46–XX FUNCTIONAL ANALYSIS {For manifolds modeled on topological linear spaces, see 57Nxx, 58Bxx}
46–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
46–01 Instructional exposition (textbooks, tutorial papers, etc.)
46–02 Research exposition (monographs, survey articles)
46–03 Historical (must also be assigned at least one classification number from Section 01)
46–04 Explicit machine computation and programs (not the theory of computation or programming)
46–06 Proceedings, conferences, collections, etc.
46Axx Topological linear spaces and related structures {For function spaces, see 46Exx}
46A03 General theory of locally convex spaces
46A04 Locally convex Fréchet spaces and (DF)-spaces
46A08 Barrelled spaces, bornological spaces
46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [See also 46M40]
46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
46A17 Bornologies and related structures; Mackey convergence, etc.
46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than $\mathbf{R}$, etc.)
46A20 Duality theory
46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [See also 46M10]
46A25 Reflexivity and semi-reflexivity [See also 46B10]
46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)
46A32 Spaces of linear operators; topological tensor products; approximation properties [See also 46B28, 46M05, 47L05, 47L20]
46A35 Summability and bases [See also 46B15]
46A40 Ordered topological linear spaces, vector lattices [See also 06F20, 46B40, 46B42]
46A45 Sequence spaces (including Köthe sequence spaces) [See also 46B45]
46A50 Compactness in topological linear spaces; angelic spaces, etc.
46A55 Convex sets in topological linear spaces; Choquet theory [See also 52A07]
46A61 Graded Fréchet spaces and tame operators
46A63 Topological invariants ((DN), (Ω), etc.)
46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)
46A80 Modular spaces
46A99 None of the above, but in this section
46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx}
46B03 Isomorphic theory (including renorming) of Banach spaces
46B04 Isometric theory of Banach spaces
46B07 Local theory of Banach spaces
46B08 Ultraproduct techniques in Banach space theory [See also 46M07]
46B09 Probabilistic methods in Banach space theory [See also 60Bxx]
46B10 Duality and reflexivity [See also 46A25]
46B15 Summability and bases [See also 46A35]
46B20 Geometry and structure of normed linear spaces
46B22 Radon-Nikodým, Kreĭn-Milman and related properties [See also 46G10]
46B25 Classical Banach spaces in the general theory
46B26 Nonseparable Banach spaces
46B28 Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47L05, 47L20]
46B40 Ordered normed spaces [See also 46A40, 46B42]
46B42 Banach lattices [See also 46A40, 46B40]
46B45 Banach sequence spaces [See also 46A45]
46B50 Compactness in Banach (or normed) spaces
46B70 Interpolation between normed linear spaces [See also 46M35]
46B99 None of the above, but in this section
46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx}
46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
46C07 Hilbert subspaces (= operator ranges); complementation (Aronszajn, de Branges, etc.) [See also 46B70, 46M35]
46C15 Characterizations of Hilbert spaces
46C20 Spaces with indefinite inner product (Kreĭn spaces, Pontryagin spaces, etc.) [See also 47B50]
46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)
46C99 None of the above, but in this section
46Exx Linear function spaces and their duals [See also 30H05, 32A38, 46F05] {For function algebras, see 46J10}
46E05 Lattices of continuous, differentiable or analytic functions
46E10 Topological linear spaces of continuous, differentiable or analytic functions
46E15 Banach spaces of continuous, differentiable or analytic functions
46E20 Hilbert spaces of continuous, differentiable or analytic functions
46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces, including de Branges-Rovnyak and other structured spaces) [See also 47B32]
46E25 Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15}
46E27 Spaces of measures [See also 28A33, 46Gxx]
46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
46E35 Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
46E40 Spaces of vector- and operator-valued functions
46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [See also 46G20, 46G25, 47H60]
46E99 None of the above, but in this section
46Fxx Distributions, generalized functions, distribution spaces [See also 46T30]
46F05 Topological linear spaces of test functions, distributions and ultradistributions [See also 46E10, 46E35]
46F10 Operations with distributions
46F12 Integral transforms in distribution spaces [See also 42–XX, 44–XX]
46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58J15]
46F20 Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
46F25 Distributions on infinite-dimensional spaces [See also 58C35]
46F30 Generalized functions for nonlinear analysis (Rosinger, Colombeau, nonstandard, etc.)
46F99 None of the above, but in this section
46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [See also 28–XX, 46Txx]
46G05 Derivatives [See also 46T20, 58C20, 58C25]
46G10 Vector-valued measures and integration [See also 28Bxx, 46B22]

46G12 Measures and integration on abstract linear spaces [See also 28C20, 46T12]
46G15 Functional analytic lifting theory [See also 28A51]
46G20 Infinite-dimensional holomorphy [See also 32–XX, 46E50, 46T25, 58B12, 58C10]
46G25 (Spaces of) multilinear mappings, polynomials [See also 46E50, 46G20, 47H60]
46G99 None of the above, but in this section
46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20}
46H05 General theory of topological algebras
46H10 Ideals and subalgebras
46H15 Representations of topological algebras
46H20 Structure, classification of topological algebras
46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)
46H30 Functional calculus in topological algebras [See also 47A60]
46H35 Topological algebras of operators [See mainly 47Lxx]
46H40 Automatic continuity
46H70 Nonassociative topological algebras [See also 46K70, 46L70]
46H99 None of the above, but in this section
46Jxx Commutative Banach algebras and commutative topological algebras [See also 46E25]
46J05 General theory of commutative topological algebras
46J10 Banach algebras of continuous functions, function algebras [See also 46E25]
46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [See also 30D55, 30H05, 32A35, 32A37, 32A38, 42B30]
46J20 Ideals, maximal ideals, boundaries
46J25 Representations of commutative topological algebras
46J30 Subalgebras
46J40 Structure, classification of commutative topological algebras
46J45 Radical Banach algebras
46J99 None of the above, but in this section
46Kxx Topological (rings and) algebras with an involution [See also 16W10]
46K05 General theory of topological algebras with involution
46K10 Representations of topological algebras with involution
46K15 Hilbert algebras
46K50 Nonselfadjoint (sub)algebras in algebras with involution
46K70 Nonassociative topological algebras with an involution [See also 46H70, 46L70]
46K99 None of the above, but in this section
46Lxx Selfadjoint operator algebras (C^*-algebras, von Neumann (W^*-) algebras, etc.) [See also 22D25, 47Lxx]
46L05 General theory of C^*-algebras
46L06 Tensor products of C^*-algebras
46L07 Operator spaces and completely bounded maps [See also 47L25]
46L08 C^*-modules
46L09 Free products of C^*-algebras
46L10 General theory of von Neumann algebras
46L30 States
46L35 Classifications of C^*-algebras, factors
46L37 Subfactors and their classification
46L40 Automorphisms
46L45 Decomposition theory for C^*-algebras
46L51 Noncommutative measure and integration
46L52 Noncommutative function spaces
46L53 Noncommutative probability and statistics
46L54 Free probability and free operator algebras
46L55 Noncommutative dynamical systems [See also 28Dxx, 37Kxx, 37Lxx, 54H20]
46L57 Derivations, dissipations and positive semigroups in C^*-algebras
46L60 Applications of selfadjoint operator algebras to physics [See also 46N50, 46N55, 47L90, 81T05, 82B10, 82C10]
46L65 Quantizations, deformations
46L70 Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]
46L80 K-theory and operator algebras (including cyclic theory) [See also 18F25, 19Kxx, 46M20, 55Rxx, 58J22]
46L85 Noncommutative topology [See also 58B32, 58B34, 58J22]
46L87 Noncommutative differential geometry [See also 58B32, 58B34, 58J22]
46L89 Other "noncommutative" mathematics based on C^*-algebra theory [See also 58B32, 58B34, 58J22]
46L99 None of the above, but in this section
46Mxx Methods of category theory in functional analysis [See also 18–XX]
46M05 Tensor products [See also 46A32, 46B28, 47A80]
46M07 Ultraproducts [See also 46B08, 46S20]
46M10 Projective and injective objects [See also 46A22]
46M15 Categories, functors {For K-theory, EXT, etc., see 19K33, 46L80, 46M18, 46M20}
46M18 Homological methods (exact sequences, right inverses, lifting, etc.)
46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 46M15, 46M18, 55Rxx]
46M35 Abstract interpolation of topological vector spaces [See also 46B70]
46M40 Inductive and projective limits [See also 46A13]
46M99 None of the above, but in this section
46Nxx Miscellaneous applications of functional analysis [See also 47Nxx]
46N10 Applications in optimization, convex analysis, mathematical programming, economics
46N20 Applications to differential and integral equations
46N30 Applications in probability theory and statistics
46N40 Applications in numerical analysis [See also 65Jxx]
46N50 Applications in quantum physics
46N55 Applications in statistical physics
46N60 Applications in biology and other sciences
46N99 None of the above, but in this section
46Sxx Other (nonclassical) types of functional analysis [See also 47Sxx]
46S10 Functional analysis over fields other than **R** or **C** or the quaternions; non-Archimedean functional analysis [See also 12J25, 32P05]
46S20 Nonstandard functional analysis [See also 03H05]
46S30 Constructive functional analysis [See also 03F60]
46S40 Fuzzy functional analysis [See also 03E72]
46S50 Functional analysis in probabilistic metric linear spaces
46S60 Functional analysis on superspaces (supermanifolds) or graded spaces [See also 58A50 and 58C50]
46S99 None of the above, but in this section
46Txx Nonlinear functional analysis [See also 47Hxx, 47Jxx, 58Cxx, 58Dxx]
46T05 Infinite-dimensional manifolds [See also 53Axx, 57N20, 58Bxx, 58Dxx]
46T10 Manifolds of mappings
46T12 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Fresnel, etc.) on manifolds [See also 28Cxx, 46G12, 60–XX]
46T20 Continuous and differentiable maps [See also 46G05]
46T25 Holomorphic maps [See also 46G20]
46T30 Distributions and generalized functions on nonlinear spaces [See also 46Fxx]
46T99 None of the above, but in this section

47–XX OPERATOR THEORY
47–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
47–01 Instructional exposition (textbooks, tutorial papers, etc.)
47–02 Research exposition (monographs, survey articles)
47–03 Historical (must also be assigned at least one classification number from Section 01)
47–04 Explicit machine computation and programs (not the theory of computation or programming)
47–06 Proceedings, conferences, collections, etc.
47Axx General theory of linear operators
47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
47A06 Linear relations (multivalued linear operators)
47A07 Forms (bilinear, sesquilinear, multilinear)
47A10 Spectrum, resolvent
47A11 Local spectral properties
47A12 Numerical range, numerical radius
47A13 Several-variable operator theory (spectral, Fredholm, etc.)
47A15 Invariant subspaces
47A16 Cyclic and hypercyclic vectors
47A20 Dilations, extensions, compressions
47A25 Spectral sets
47A30 Norms (inequalities, more than one norm, etc.)
47A35 Ergodic theory [See also 28Dxx, 37Axx]
47A40 Scattering theory [See also 34L25, 35P25, 81Uxx]
47A45 Canonical models for contractions and nonselfadjoint operators
47A46 Chains (nests) of projections or of invariant subspaces, integrals along chains, etc.
47A48 Operator colligations (= nodes), vessels, linear systems, characteristic functions, realizations, etc.
47A50 Equations and inequalities involving linear operators, with vector unknowns
47A52 Ill-posed problems, regularization
47A53 (Semi-) Fredholm operators; index theories [See also 58B15, 58J20]
47A55 Perturbation theory
47A56 Functions whose values are linear operators (operator and matrix valued functions, etc., including analytic and meromorphic ones)
47A57 Operator methods in interpolation, moment and extension problems [See also 30E05, 42A70, 42A82, 44A60]
47A58 Operator approximation theory
47A60 Functional calculus
47A62 Equations involving linear operators, with operator unknowns
47A63 Operator inequalities
47A64 Operator means, shorted operators, etc.

47A65 Structure theory
47A66 Quasitriangular and nonquasitriangular, quasidiagonal and nonquasidiagonal operators
47A67 Representation theory
47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)
47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces
47A75 Eigenvalue problems [See also 49R50]
47A80 Tensor products of operators [See also 46M05]
47A99 None of the above, but in this section

47Bxx Special classes of linear operators

47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators
47B07 Operators defined by compactness properties
47B10 Operators belonging to operator ideals (nuclear, p-summing, in the Schatten-von Neumann classes, etc.) [See also 47L20]
47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
47B20 Subnormal operators, hyponormal operators, etc.
47B25 Symmetric and selfadjoint operators (unbounded)
47B32 Operators in reproducing-kernel Hilbert spaces (including de Branges, de Branges-Rovnyak, and other structured spaces) [See also 46E22]
47B33 Composition operators
47B34 Kernel operators
47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [See also 45P05, 47G10 for other integral operators; see also 32A25, 32M15]
47B36 Jacobi (tridiagonal) operators (matrices) and generalizations
47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)
47B38 Operators on function spaces (general)
47B39 Difference operators [See also 39A70]
47B40 Spectral operators, decomposable operators, well-bounded operators, etc.
47B44 Accretive operators, dissipative operators, etc.
47B47 Commutators, derivations, elementary operators, etc.
47B48 Operators on Banach algebras
47B49 Transformers (= operators on spaces of operators)
47B50 Operators on spaces with an indefinite metric [See also 46C50]
47B60 Operators on ordered spaces
47B65 Positive operators and order-bounded operators
47B80 Random operators [See also 60H25]
47B99 None of the above, but in this section

47Cxx Individual linear operators as elements of algebraic systems

47C05 Operators in algebras
47C10 Operators in *-algebras
47C15 Operators in C^*- or von Neumann algebras
47C99 None of the above, but in this section

47Dxx Groups and semigroups of linear operators, their generalizations and applications

47D03 Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
47D06 One-parameter semigroups and linear evolution equations [See also 34G10, 34K30]
47D07 Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx}
47D08 Schrödinger and Feynman-Kac semigroups
47D09 Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10]
47D60 C-semigroups
47D62 Integrated semigroups
47D99 None of the above, but in this section

47E05 Ordinary differential operators [See also 34Bxx, 34Lxx]
47F05 Partial differential operators [See also 35Pxx, 58Jxx]

47Gxx Integral, integro-differential, and pseudodifferential operators [See also 58Jxx]

47G10 Integral operators [See also 45P05]
47G20 Integro-differential operators [See also 34K30, 35R10, 45J05, 45K05]
47G30 Pseudodifferential operators [See also 35Sxx, 58Jxx]
47G99 None of the above, but in this section

47Hxx Nonlinear operators and their properties {For global and geometric aspects, see 58–XX, especially 58Cxx}

47H04 Set-valued operators [See also 28B20, 54C60, 58C06]
47H05 Monotone operators (with respect to duality)
47H06 Accretive operators, dissipative operators, etc.
47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness and condensing mappings, A-proper mappings, K-set contractions, etc.)
47H10 Fixed-point theorems [See also 54H25, 55M20, 58C30]
47H11 Degree theory [See also 55M25, 58C30]
47H14 Perturbations of nonlinear operators
47H20 Semigroups of nonlinear operators
47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, etc.) [See also 45Gxx, 45P05]
47H40 Random operators [See also 60H25]
47H50 Potential operators
47H60 Multilinear and polynomial operators [See also 46G25]
47H99 None of the above, but in this section

47Jxx Equations and inequalities involving nonlinear operators [See also 46Txx] {For global and geometric aspects, see 58–XX}

47J05 Equations involving nonlinear operators (general)
47J06 Nonlinear ill-posed problems
47J07 Abstract inverse mapping and implicit function theorems [See also 46T20 and 58C15]
47J10 Nonlinear eigenvalue problems
47J15 Abstract bifurcation theory [See also 58E07, 58E09]
47J20 Variational and other types of inequalities involving nonlinear operators (general)
47J25 Methods for solving nonlinear operator equations (general)
47J30 Variational methods {See also 58Exx}
47J35 Nonlinear evolution equations [See also 34G20, 35K90, 35L90, 35Qxx, 35R20, 37Kxx, 37Lxx, 58D25]
47J40 Equations with hysteresis operators
47J99 None of the above, but in this section

47Lxx Linear spaces and algebras of operators [See also 46Lxx]

47L05 Linear spaces of operators [See also 46A32 and 46B28]
47L07 Convex sets and cones of operators [See also 46A55]
47L10 Algebras of operators on Banach spaces and other topological linear spaces
47L15 Operator algebras with symbol structure
47L20 Operator ideals
47L25 Operator spaces (= matricially normed spaces) [See also 46L07]
47L30 Abstract operator algebras on Hilbert spaces
47L35 Nest algebras, CSL algebras
47L40 Limit algebras, subalgebras of C^*-algebras
47L45 Dual algebras; weakly closed singly generated operator algebras
47L50 Dual spaces of operator algebras
47L55 Representations of (nonselfadjoint) operator algebras
47L60 Algebras of unbounded operators; partial algebras of operators
47L65 Crossed product algebras (analytic crossed products)
47L70 Nonassociative nonselfadjoint operator algebras
47L75 Other nonselfadjoint operator algebras
47L80 Algebras of specific types of operators (Toeplitz, integral, pseudodifferential, etc.)
47L90 Applications of operator algebras to physics
47L99 None of the above, but in this section

47Nxx Miscellaneous applications of operator theory [See also 46Nxx]

47N10 Applications in optimization, convex analysis, mathematical programming, economics
47N20 Applications to differential and integral equations
47N30 Applications in probability theory and statistics
47N40 Applications in numerical analysis [See also 65Jxx]
47N50 Applications in quantum physics
47N55 Applications in statistical physics
47N60 Applications in biology and other sciences
47N70 Applications in systems theory, circuits, etc.
47N99 None of the above, but in this section

47Sxx Other (nonclassical) types of operator theory [See also 46Sxx]

47S10 Operator theory over fields other than **R**, **C** or the quaternions; non-Archimedean operator theory
47S20 Nonstandard operator theory [See also 03H05]
47S30 Constructive operator theory [See also 03F60]
47S40 Fuzzy operator theory [See also 03E72]
47S50 Operator theory in probabilistic metric linear spaces
47S99 None of the above, but in this section

49–XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 34K35, 65Kxx, 90Cxx, 93–XX]

49–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
49–01 Instructional exposition (textbooks, tutorial papers, etc.)
49–02 Research exposition (monographs, survey articles)
49–03 Historical (must also be assigned at least one classification number from Section 01)
49–04 Explicit machine computation and programs (not the theory of computation or programming)
49–06 Proceedings, conferences, collections, etc.

49Jxx Existence theories

49J05 Free problems in one independent variable
49J10 Free problems in two or more independent variables
49J15 Optimal control problems involving ordinary differential equations
49J20 Optimal control problems involving partial differential equations
49J22 Optimal control problems involving integral equations

49J24 Optimal control problems involving differential inclusions [See also 34A60]
49J25 Optimal control problems involving equations with retarded arguments [See also 34K35]
49J27 Problems in abstract spaces [See also 90C48, 93C25]
49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
49J35 Minimax problems
49J40 Variational methods including variational inequalities [See also 47J20]
49J45 Methods involving semicontinuity and convergence; relaxation
49J50 Fréchet and Gateaux differentiability [See also 46G05, 58C20]
49J52 Nonsmooth analysis [See also 46G05, 58C50]
49J53 Set-valued and variational analysis [See also 28B20, 47H04, 54C60, 58C06]
49J55 Problems involving randomness [See also 93E20]
49J99 None of the above, but in this section
49Kxx Necessary conditions and sufficient conditions for optimality
49K05 Free problems in one independent variable
49K10 Free problems in two or more independent variables
49K15 Problems involving ordinary differential equations
49K20 Problems involving partial differential equations
49K22 Problems involving integral equations
49K24 Problems involving differential inclusions [See also 34A60]
49K25 Problems involving equations with retarded arguments [See also 34K35]
49K27 Problems in abstract spaces [See also 90C48, 93C25]
49K30 Optimal solutions belonging to restricted classes
49K35 Minimax problems
49K40 Sensitivity, stability, well-posedness [See also 90C31]
49K45 Problems involving randomness [See also 93E20]
49K99 None of the above, but in this section
49Lxx Hamilton-Jacobi theories, including dynamic programming
49L20 Dynamic programming method
49L25 Viscosity solutions
49L99 None of the above, but in this section
49Mxx Methods of successive approximations [See also 90Cxx, 65Kxx]
49M05 Methods based on necessary conditions
49M15 Methods of Newton-Raphson, Galerkin and Ritz types
49M20 Methods of relaxation type
49M25 Discrete approximations
49M27 Decomposition methods
49M29 Methods involving duality
49M30 Other methods, not based on necessary conditions (penalty function, etc.)
49M37 Methods of nonlinear programming type [See also 90C30, 65Kxx]
49M99 None of the above, but in this section
49Nxx Miscellaneous topics
49N05 Linear optimal control problems [See also 93C05]
49N10 Linear-quadratic problems
49N15 Duality theory
49N20 Periodic optimization
49N25 Impulsive optimal control problems
49N30 Problems with incomplete information [See also 93C41]
49N35 Optimal feedback synthesis [See also 93B52]
49N45 Inverse problems
49N60 Regularity of solutions
49N70 Differential games
49N75 Pursuit and evasion games
49N90 Applications of optimal control and differential games [See also 90C90, 93C95]
49N99 None of the above, but in this section
49Qxx Manifolds [See also 58Exx]
49Q05 Minimal surfaces [See also 53A10, 58E12]
49Q10 Optimization of shapes other than minimal surfaces [See also 90C90]
49Q12 Sensitivity analysis
49Q15 Geometric measure and integration theory, integral and normal currents [See also 28A75, 32C30, 58A25, 58C35]
49Q20 Variational problems in a geometric measure-theoretic setting
49Q99 None of the above, but in this section
49R50 Variational methods for eigenvalues of operators [See also 47A75]
49S05 Variational principles of physics

51–XX GEOMETRY {For algebraic geometry, see 14–XX}
51–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
51–01 Instructional exposition (textbooks, tutorial papers, etc.)
51–02 Research exposition (monographs, survey articles)
51–03 Historical (must also be assigned at least one classification number from Section 01)
51–04 Explicit machine computation and programs (not the theory of computation or programming)
51–06 Proceedings, conferences, collections, etc.

51Axx Linear incidence geometry
51A05 General theory and projective geometries
51A10 Homomorphism, automorphism and dualities
51A15 Structures with parallelism
51A20 Configuration theorems
51A25 Algebraization [See also 12Kxx, 20N05]
51A30 Desarguesian and Pappian geometries
51A35 Non-Desarguesian affine and projective planes
51A40 Translation planes and spreads
51A45 Incidence structures imbeddable into projective geometries
51A50 Polar geometry, symplectic spaces, orthogonal spaces
51A99 None of the above, but in this section
51Bxx Nonlinear incidence geometry
51B05 General theory
51B10 Möbius geometries
51B15 Laguerre geometries
51B20 Minkowski geometries
51B25 Lie geometries
51B99 None of the above, but in this section
51C05 Ring geometry (Hjelmslev, Barbilian, etc.)
51Dxx Geometric closure systems
51D05 Abstract (Maeda) geometries
51D10 Abstract geometries with exchange axiom
51D15 Abstract geometries with parallelism
51D20 Combinatorial geometries [See also 05B25, 05B35]
51D25 Lattices of subspaces [See also 05B35]
51D30 Continuous geometries and related topics [See also 06Cxx]
51D99 None of the above, but in this section
51Exx Finite geometry and special incidence structures
51E05 General block designs [See also 05B05]
51E10 Steiner systems
51E12 Generalized quadrangles, generalized polygons
51E14 Finite partial geometries (general), nets, partial spreads
51E15 Affine and projective planes
51E20 Combinatorial structures in finite projective spaces [See also 05Bxx]
51E21 Blocking sets, ovals, k-arcs
51E22 Linear codes and caps in Galois spaces [See also 94B05]
51E23 Spreads and packing problems
51E24 Buildings and the geometry of diagrams
51E25 Other finite nonlinear geometries
51E26 Other finite linear geometries
51E30 Other finite incidence structures [See also 05B30]
51E99 None of the above, but in this section
51Fxx Metric geometry
51F05 Absolute planes
51F10 Absolute spaces
51F15 Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]
51F20 Congruence and orthogonality [See also 20H05]
51F25 Orthogonal and unitary groups [See also 20H05]
51F99 None of the above, but in this section
51G05 Ordered geometries (ordered incidence structures, etc.)
51Hxx Topological geometry
51H05 General theory
51H10 Topological linear incidence structures
51H15 Topological nonlinear incidence structures
51H20 Topological geometries on manifolds [See also 57–XX]
51H25 Geometries with differentiable structure [See also 53Cxx, 53C70]
51H30 Geometries with algebraic manifold structure [See also 14–XX]
51H99 None of the above, but in this section
51Jxx Incidence groups
51J05 General theory
51J10 Projective incidence groups
51J15 Kinematic spaces
51J20 Representation by near-fields and near-algebras [See also 12K05, 16Y30]
51J99 None of the above, but in this section
51Kxx Distance geometry
51K05 General theory
51K10 Synthetic differential geometry
51K99 None of the above, but in this section
51Lxx Geometric order structures [See also 53C75]
51L05 Geometry of orders of nondifferentiable curves
51L10 Directly differentiable curves
51L15 n-vertex theorems via direct methods
51L20 Geometry of orders of surfaces
51L99 None of the above, but in this section
51Mxx Real and complex geometry
51M04 Elementary problems in Euclidean geometries
51M05 Euclidean geometries (general) and generalizations
51M09 Elementary problems in hyperbolic and elliptic geometries
51M10 Hyperbolic and elliptic geometries (general) and generalizations

51M15 Geometric constructions
51M16 Inequalities and extremum problems {For convex problems, see 52A40}
51M20 Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
51M25 Length, area and volume [See also 26B15]
51M30 Line geometries and their generalizations [See also 53A25]
51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15]
51M99 None of the above, but in this section
51Nxx Analytic and descriptive geometry
51N05 Descriptive geometry [See also 65D17, 68U07]
51N10 Affine analytic geometry
51N15 Projective analytic geometry
51N20 Euclidean analytic geometry
51N25 Analytic geometry with other transformation groups
51N30 Geometry of classical groups [See also 20Gxx, 14L35]
51N35 Questions of classical algebraic geometry [See also 14Nxx]
51N99 None of the above, but in this section
51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

52–XX CONVEX AND DISCRETE GEOMETRY
52–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
52–01 Instructional exposition (textbooks, tutorial papers, etc.)
52–02 Research exposition (monographs, survey articles)
52–03 Historical (must also be assigned at least one classification number from Section 01)
52–04 Explicit machine computation and programs (not the theory of computation or programming)
52–06 Proceedings, conferences, collections, etc.
52Axx General convexity
52A01 Axiomatic and generalized convexity
52A05 Convex sets without dimension restrictions
52A07 Convex sets in topological vector spaces [See also 46A55]
52A10 Convex sets in 2 dimensions (including convex curves) [See also 53A04]
52A15 Convex sets in 3 dimensions (including convex surfaces) [See also 53A05, 53C45]
52A20 Convex sets in n dimensions (including convex hypersurfaces) [See also 53A07, 53C45]
52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [See also 46Bxx]
52A22 Random convex sets and integral geometry [See also 53C65, 60D05]
52A27 Approximation by convex sets
52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.)
52A35 Helly-type theorems and geometric transversal theory
52A37 Other problems of combinatorial convexity
52A38 Length, area, volume [See also 26B15, 28A75, 49Q20]
52A39 Mixed volumes and related topics
52A40 Inequalities and extremum problems
52A41 Convex functions and convex programs [See also 26B25, 90C25]
52A55 Spherical and hyperbolic convexity
52A99 None of the above, but in this section
52Bxx Polytopes and polyhedra
52B05 Combinatorial properties (number of faces, shortest paths, etc.) [See also 05Cxx]
52B10 Three-dimensional polytopes
52B11 n-dimensional polytopes
52B12 Special polytopes (linear programming, centrally symmetric, etc.)
52B15 Symmetry properties of polytopes
52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A11, 13F20, 13Hxx]
52B22 Shellability
52B35 Gale and other diagrams
52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35, 52Cxx]
52B45 Dissections and valuations (Hilbert's third problem, etc.)
52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q25, 68U05; for numerical algorithms, see 65Yxx} [See also 68Uxx]
52B60 Isoperimetric problems for polytopes
52B70 Polyhedral manifolds
52B99 None of the above, but in this section
52Cxx Discrete geometry
52C05 Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 11P21]
52C07 Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21]
52C10 Erdős problems and related topics of discrete geometry [See also 11Hxx]
52C15 Packing and covering in 2 dimensions [See also 05B40, 11H31]
52C17 Packing and covering in n dimensions [See also 05B40, 11H31]
52C20 Tilings in 2 dimensions [See also 05B45, 51M20]
52C22 Tilings in n dimensions [See also 05B45, 51M20]
52C23 Quasicrystals, aperiodic tilings
52C25 Rigidity and flexibility of structures [See also 70B15]
52C26 Circle packings and discrete conformal geometry
52C30 Planar arrangements of lines and pseudolines
52C35 Arrangements of points, flats, hyperplanes [See also 32S22]
52C40 Oriented matroids
52C45 Combinatorial complexity of geometric structures [See also 68U05]
52C99 None of the above, but in this section

53–XX DIFFERENTIAL GEOMETRY {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx}
53–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
53–01 Instructional exposition (textbooks, tutorial papers, etc.)
53–02 Research exposition (monographs, survey articles)
53–03 Historical (must also be assigned at least one classification number from Section 01)
53–04 Explicit machine computation and programs (not the theory of computation or programming)
53–06 Proceedings, conferences, collections, etc.
53Axx Classical differential geometry
53A04 Curves in Euclidean space
53A05 Surfaces in Euclidean space
53A07 Higher-dimensional and -codimensional surfaces in Euclidean n-space
53A10 Minimal surfaces, surfaces with prescribed mean curvature [See also 49Q05, 49Q10, 53C42]
53A15 Affine differential geometry
53A17 Kinematics
53A20 Projective differential geometry
53A25 Differential line geometry
53A30 Conformal differential geometry
53A35 Non-Euclidean differential geometry
53A40 Other special differential geometries
53A45 Vector and tensor analysis
53A55 Differential invariants (local theory), geometric objects
53A60 Geometry of webs [See also 14C21, 20N05]
53A99 None of the above, but in this section
53Bxx Local differential geometry
53B05 Linear and affine connections
53B10 Projective connections
53B15 Other connections
53B20 Local Riemannian geometry
53B21 Methods of Riemannian geometry
53B25 Local submanifolds [See also 53C40]
53B30 Lorentz metrics, indefinite metrics
53B35 Hermitian and Kählerian structures [See also 32Cxx]
53B40 Finsler spaces and generalizations (areal metrics)
53B50 Applications to physics
53B99 None of the above, but in this section
53Cxx Global differential geometry [See also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]
53C05 Connections, general theory
53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32Q20]
53C10 G-structures
53C12 Foliations (differential geometric aspects) [See also 57R30, 57R32]
53C15 General geometric structures on manifolds (almost complex, almost product structures, etc.)
53C17 Sub-Riemannian geometry
53C20 Global Riemannian geometry, including pinching [See also 31C12, 58B20]
53C21 Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58J60]
53C22 Geodesics [See also 58E10]
53C23 Global topological methods (à la Gromov)
53C24 Rigidity results
53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
53C26 Hyper-Kähler and quaternionic Kähler geometry, "special" geometry
53C27 Spin and Spin^c geometry
53C28 Twistor methods [See also 32L25]
53C29 Issues of holonomy
53C30 Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15]
53C35 Symmetric spaces [See also 32M15, 57T15]
53C38 Calibrations and calibrated geometries
53C40 Global submanifolds [See also 53B25]
53C42 Immersions (minimal, prescribed curvature, tight, etc.) [See also 49Q05, 49Q10, 53A10, 57R40, 57R42]
53C43 Differential geometric aspects of harmonic maps [See also 58E20]
53C44 Geometric evolution equations (mean curvature flow)

53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
53C50 Lorentz manifolds, manifolds with indefinite metrics
53C55 Hermitian and Kählerian manifolds [See also 32Cxx]
53C56 Other complex differential geometry [See also 32Cxx]
53C60 Finsler spaces and generalizations (areal metrics) [See also 58B20]
53C65 Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]
53C70 Direct methods (G-spaces of Busemann, etc.)
53C75 Geometric orders, order geometry [See also 51Lxx]
53C80 Applications to physics
53C99 None of the above, but in this section

53Dxx Symplectic geometry, contact geometry [See also 37Jxx, 70Gxx, 70Hxx]
53D05 Symplectic manifolds, general
53D10 Contact manifolds, general
53D12 Lagrangian submanifolds; Maslov index
53D15 Almost contact and almost symplectic manifolds
53D17 Poisson manifolds
53D20 Momentum maps; symplectic reduction
53D22 Canonical transformations
53D25 Geodesic flows
53D30 Symplectic structures of moduli spaces
53D35 Global theory of symplectic and contact manifolds [See also 57Rxx]
53D40 Floer homology and cohomology, symplectic aspects
53D45 Gromov-Witten invariants, quantum cohomology, Frobenius manifolds [See also 14N35]
53D50 Geometric quantization
53D55 Deformation quantization, star products
53D99 None of the above, but in this section

53Z05 Applications to physics

54–XX GENERAL TOPOLOGY {For the topology of manifolds of all dimensions, see 57Nxx}

54–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
54–01 Instructional exposition (textbooks, tutorial papers, etc.)
54–02 Research exposition (monographs, survey articles)
54–03 Historical (must also be assigned at least one classification number from Section 01)
54–04 Explicit machine computation and programs (not the theory of computation or programming)
54–06 Proceedings, conferences, collections, etc.

54Axx Generalities
54A05 Topological spaces and generalizations (closure spaces, etc.)
54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
54A15 Syntopogeneous structures
54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx] {For ultrafilters, see 54D80}
54A35 Consistency and independence results [See also 03E35]
54A40 Fuzzy topology [See also 03E72]
54A99 None of the above, but in this section

54Bxx Basic constructions
54B05 Subspaces
54B10 Product spaces
54B15 Quotient spaces, decompositions
54B17 Adjunction spaces and similar constructions
54B20 Hyperspaces
54B30 Categorical methods [See also 18B30]
54B35 Spectra
54B40 Presheaves and sheaves [See also 18F20]
54B99 None of the above, but in this section

54Cxx Maps and general types of spaces defined by maps
54C05 Continuous maps
54C08 Weak and generalized continuity
54C10 Special maps on topological spaces (open, closed, perfect, etc.)
54C15 Retraction
54C20 Extension of maps
54C25 Embedding
54C30 Real-valued functions [See also 26–XX]
54C35 Function spaces [See also 46Exx, 58D15]
54C40 Algebraic properties of function spaces [See also 46J10]
54C45 C- and C^*-embedding
54C50 Special sets defined by functions [See also 26A21]
54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
54C56 Shape theory [See also 55P55, 57N25]
54C60 Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
54C65 Selections [See also 28B20]
54C70 Entropy
54C99 None of the above, but in this section

54Dxx Fairly general properties
54D05 Connected and locally connected spaces (general aspects)
54D10 Lower separation axioms (T_0–T_3, etc.)
54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
54D25 "P-minimal" and "P-closed" spaces
54D30 Compactness
54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
54D40 Remainders
54D45 Local compactness, σ-compactness
54D50 k-spaces
54D55 Sequential spaces
54D60 Realcompactness and realcompactification
54D65 Separability
54D70 Base properties
54D80 Special constructions of spaces (spaces of ultrafilters, etc.)
54D99 None of the above, but in this section

54Exx Spaces with richer structures
54E05 Proximity structures and generalizations
54E15 Uniform structures and generalizations
54E17 Nearness spaces
54E18 p-spaces, M-spaces, σ-spaces, etc.
54E20 Stratifiable spaces, cosmic spaces, etc.
54E25 Semimetric spaces
54E30 Moore spaces
54E35 Metric spaces, metrizability
54E40 Special maps on metric spaces
54E45 Compact (locally compact) metric spaces
54E50 Complete metric spaces
54E52 Baire category, Baire spaces
54E55 Bitopologies
54E70 Probabilistic metric spaces
54E99 None of the above, but in this section

54Fxx Special properties
54F05 Linearly ordered topological spaces, generalized ordered spaces, and partially ordered spaces [See also 06B30, 06F30]
54F15 Continua and generalizations
54F35 Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
54F45 Dimension theory [See also 55M10]
54F50 Spaces of dimension ≤ 1; curves, dendrites [See also 26A03]
54F55 Unicoherence, multicoherence
54F65 Topological characterizations of particular spaces
54F99 None of the above, but in this section

54Gxx Peculiar spaces
54G05 Extremally disconnected spaces, F-spaces, etc.
54G10 P-spaces
54G12 Scattered spaces
54G15 Pathological spaces
54G20 Counterexamples
54G99 None of the above, but in this section

54Hxx Connections with other structures, applications
54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 26A21, 28A05]
54H10 Topological representations of algebraic systems [See also 22–XX]
54H11 Topological groups [See also 22A05]
54H12 Topological lattices, etc. [See also 06B30, 06F30]
54H13 Topological fields, rings, etc. [See also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80}
54H15 Transformation groups and semigroups [See also 20M20, 22–XX, 57Sxx]
54H20 Topological dynamics [See also 28Dxx, 37Bxx]
54H25 Fixed-point and coincidence theorems [See also 47H10, 55M20]
54H99 None of the above, but in this section

54J05 Nonstandard topology [See also 03H05]

55–XX ALGEBRAIC TOPOLOGY

55–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
55–01 Instructional exposition (textbooks, tutorial papers, etc.)
55–02 Research exposition (monographs, survey articles)
55–03 Historical (must also be assigned at least one classification number from Section 01)
55–04 Explicit machine computation and programs (not the theory of computation or programming)
55–06 Proceedings, conferences, collections, etc.

55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx}
55M05 Duality
55M10 Dimension theory [See also 54F45]
55M15 Absolute neighborhood retracts [See also 54C55]
55M20 Fixed points and coincidences [See also 54H25]

55M25 Degree, winding number
55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel′man) category of a space
55M35 Finite groups of transformations (including Smith theory) [See also 57S17]
55M99 None of the above, but in this section
55Nxx Homology and cohomology theories [See also 57Txx]
55N05 Čech types
55N07 Steenrod-Sitnikov homologies
55N10 Singular theory
55N15 K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX}
55N20 Generalized (extraordinary) homology and cohomology theories
55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
55N25 Homology with local coefficients, equivariant cohomology
55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10]
55N33 Intersection homology and cohomology
55N34 Elliptic cohomology
55N35 Other homology theories
55N40 Axioms for homology theory and uniqueness theorems
55N45 Products and intersections
55N91 Equivariant homology and cohomology [See also 19L47]
55N99 None of the above, but in this section
55Pxx Homotopy theory {For simple homotopy type, see 57Q10}
55P05 Homotopy extension properties, cofibrations
55P10 Homotopy equivalences
55P15 Classification of homotopy type
55P20 Eilenberg-Mac Lane spaces
55P25 Spanier-Whitehead duality
55P30 Eckmann-Hilton duality
55P35 Loop spaces
55P40 Suspensions
55P42 Stable homotopy theory, spectra
55P43 Spectra with additional structure (E_∞, A_∞, ring spectra, etc.)
55P45 H-spaces and duals
55P47 Infinite loop spaces
55P48 Loop space machines, operads [See also 18D50]
55P55 Shape theory [See also 54C56, 55Q07]
55P57 Proper homotopy theory
55P60 Localization and completion
55P62 Rational homotopy theory
55P65 Homotopy functors
55P91 Equivariant homotopy theory [See also 19L47]
55P92 Relations between equivariant and nonequivariant homotopy theory
55P99 None of the above, but in this section
55Qxx Homotopy groups
55Q05 Homotopy groups, general; sets of homotopy classes
55Q07 Shape groups
55Q10 Stable homotopy groups
55Q15 Whitehead products and generalizations
55Q20 Homotopy groups of wedges, joins, and simple spaces
55Q25 Hopf invariants
55Q35 Operations in homotopy groups
55Q40 Homotopy groups of spheres
55Q45 Stable homotopy of spheres
55Q50 J-morphism [See also 19L20]
55Q51 v_n-periodicity
55Q52 Homotopy groups of special spaces
55Q55 Cohomotopy groups
55Q70 Homotopy groups of special types [See also 55N05, 55N07]
55Q91 Equivariant homotopy groups [See also 19L47]
55Q99 None of the above, but in this section
55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]
55R05 Fiber spaces
55R10 Fiber bundles
55R12 Transfer
55R15 Classification
55R20 Spectral sequences and homology of fiber spaces [See also 55Txx]
55R25 Sphere bundles and vector bundles
55R35 Classifying spaces of groups and H-spaces
55R37 Maps between classifying spaces
55R40 Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
55R45 Homology and homotopy of BO and BU; Bott periodicity
55R50 Stable classes of vector space bundles, K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX}
55R55 Fiberings with singularities
55R60 Microbundles and block bundles [See also 57N55, 57Q50]
55R65 Generalizations of fiber spaces and bundles
55R70 Fibrewise topology
55R80 Discriminantal varieties, configuration spaces
55R91 Equivariant fiber spaces and bundles [See also 19L47]
55R99 None of the above, but in this section
55Sxx Operations and obstructions
55S05 Primary cohomology operations
55S10 Steenrod algebra
55S12 Dyer-Lashof operations
55S15 Symmetric products, cyclic products
55S20 Secondary and higher cohomology operations
55S25 K-theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
55S30 Massey products
55S35 Obstruction theory
55S36 Extension and compression of mappings
55S37 Classification of mappings
55S40 Sectioning fiber spaces and bundles
55S45 Postnikov systems, k-invariants
55S91 Equivariant operations and obstructions [See also 19L47]
55S99 None of the above, but in this section
55Txx Spectral sequences [See also 18G40, 55R20]
55T05 General
55T10 Serre spectral sequences
55T15 Adams spectral sequences
55T20 Eilenberg-Moore spectral sequences [See also 57T35]
55T25 Generalized cohomology
55T99 None of the above, but in this section
55Uxx Applied homological algebra and category theory [See also 18Gxx]
55U05 Abstract complexes
55U10 Simplicial sets and complexes
55U15 Chain complexes
55U20 Universal coefficient theorems, Bockstein operator
55U25 Homology of a product, Künneth formula
55U30 Duality
55U35 Abstract and axiomatic homotopy theory
55U40 Topological categories, foundations of homotopy theory
55U99 None of the above, but in this section

57–XX MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32Qxx}
57–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
57–01 Instructional exposition (textbooks, tutorial papers, etc.)
57–02 Research exposition (monographs, survey articles)
57–03 Historical (must also be assigned at least one classification number from Section 01)
57–04 Explicit machine computation and programs (not the theory of computation or programming)
57–06 Proceedings, conferences, collections, etc.
57Mxx Low-dimensional topology
57M05 Fundamental group, presentations, free differential calculus
57M07 Topological methods in group theory
57M10 Covering spaces
57M12 Special coverings, e.g. branched
57M15 Relations with graph theory [See also 05Cxx]
57M20 Two-dimensional complexes
57M25 Knots and links in S^3 {For higher dimensions, see 57Q45}
57M27 Invariants of knots and 3-manifolds
57M30 Wild knots and surfaces, etc., wild embeddings
57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity
57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12]
57M50 Geometric structures on low-dimensional manifolds
57M60 Group actions in low dimensions
57M99 None of the above, but in this section
57Nxx Topological manifolds
57N05 Topology of E^2, 2-manifolds
57N10 Topology of general 3-manifolds [See also 57Mxx]
57N12 Topology of E^3 and S^3 [See also 57M40]
57N13 Topology of E^4, 4-manifolds [See also 14Jxx, 32Jxx]
57N15 Topology of E^n, n-manifolds $(4 < n < \infty)$
57N16 Geometric structures on manifolds [See also 57M50]
57N17 Topology of topological vector spaces
57N20 Topology of infinite-dimensional manifolds [See also 58Bxx]
57N25 Shapes [See also 54C56, 55P55, 55Q07]
57N30 Engulfing
57N35 Embeddings and immersions
57N37 Isotopy and pseudo-isotopy
57N40 Neighborhoods of submanifolds
57N45 Flatness and tameness
57N50 $S^{n-1} \subset E^n$, Schoenflies problem
57N55 Microbundles and block bundles [See also 55R60, 57Q50]
57N60 Cellularity
57N65 Algebraic topology of manifolds
57N70 Cobordism and concordance

57N75 General position and transversality
57N80 Stratifications
57N99 None of the above, but in this section
57Pxx Generalized manifolds [See also 18F15]
57P05 Local properties of generalized manifolds
57P10 Poincaré duality spaces
57P99 None of the above, but in this section
57Qxx PL-topology
57Q05 General topology of complexes
57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28]
57Q12 Wall finiteness obstruction for CW-complexes
57Q15 Triangulating manifolds
57Q20 Cobordism
57Q25 Comparison of PL-structures: classification, Hauptvermutung
57Q30 Engulfing
57Q35 Embeddings and immersions
57Q37 Isotopy
57Q40 Regular neighborhoods
57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25}
57Q50 Microbundles and block bundles [See also 55R60, 57N55]
57Q55 Approximations
57Q60 Cobordism and concordance
57Q65 General position and transversality
57Q91 Equivariant PL-topology
57Q99 None of the above, but in this section
57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx}
57R05 Triangulating
57R10 Smoothing
57R12 Smooth approximations
57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)
57R17 Symplectic and contact topology
57R19 Algebraic topology on manifolds
57R20 Characteristic classes and numbers
57R22 Topology of vector bundles and fiber bundles [See also 55Rxx]
57R25 Vector fields, frame fields
57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49Qxx, 37C10, 93B05]
57R30 Foliations; geometric theory
57R32 Classifying spaces for foliations; Gel′fand-Fuks cohomology [See also 58H10]
57R35 Differentiable mappings
57R40 Embeddings
57R42 Immersions
57R45 Singularities of differentiable mappings
57R50 Diffeomorphisms
57R52 Isotopy
57R55 Differentiable structures
57R56 Topological quantum field theories
57R57 Applications of global analysis to structures on manifolds, Donaldson and Seiberg-Witten invariants [See also 58–XX]
57R58 Floer homology
57R60 Homotopy spheres, Poincaré conjecture
57R65 Surgery and handlebodies
57R67 Surgery obstructions, Wall groups [See also 19J25]
57R70 Critical points and critical submanifolds
57R75 O- and SO-cobordism
57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22]
57R80 h- and s-cobordism
57R85 Equivariant cobordism
57R90 Other types of cobordism [See also 55N22]
57R91 Equivariant algebraic topology of manifolds
57R95 Realizing cycles by submanifolds
57R99 None of the above, but in this section
57Sxx Topological transformation groups [See also 20F34, 22–XX, 37–XX, 54H15, 58D05]
57S05 Topological properties of groups of homeomorphisms or diffeomorphisms
57S10 Compact groups of homeomorphisms
57S15 Compact Lie groups of differentiable transformations
57S17 Finite transformation groups
57S20 Noncompact Lie groups of transformations
57S25 Groups acting on specific manifolds
57S30 Discontinuous groups of transformations
57S99 None of the above, but in this section

57Txx Homology and homotopy of topological groups and related structures
57T05 Hopf algebras [See also 16W30]
57T10 Homology and cohomology of Lie groups
57T15 Homology and cohomology of homogeneous spaces of Lie groups
57T20 Homotopy groups of topological groups and homogeneous spaces
57T25 Homology and cohomology of H-spaces
57T30 Bar and cobar constructions [See also 18G55, 55Uxx]
57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20]
57T99 None of the above, but in this section

58–XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS [See also 32Cxx, 32Fxx, 32Wxx, 46–XX, 47Hxx, 53Cxx] {For geometric integration theory, see 49Q15}
58–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
58–01 Instructional exposition (textbooks, tutorial papers, etc.)
58–02 Research exposition (monographs, survey articles)
58–03 Historical (must also be assigned at least one classification number from Section 01)
58–04 Explicit machine computation and programs (not the theory of computation or programming)
58–06 Proceedings, conferences, collections, etc.
58Axx General theory of differentiable manifolds [See also 32Cxx]
58A03 Topos-theoretic approach to differentiable manifolds
58A05 Differentiable manifolds, foundations
58A07 Real-analytic and Nash manifolds [See also 14P20, 32C07]
58A10 Differential forms
58A12 de Rham theory [See also 14Fxx]
58A14 Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
58A15 Exterior differential systems (Cartan theory)
58A17 Pfaffian systems
58A20 Jets
58A25 Currents [See also 32C30, 53C65]
58A30 Vector distributions (subbundles of the tangent bundles)
58A32 Natural bundles
58A35 Stratified sets [See also 32S60]
58A40 Differential spaces
58A50 Supermanifolds and graded manifolds [See also 14A22, 32C11]
58A99 None of the above, but in this section
58Bxx Infinite-dimensional manifolds
58B05 Homotopy and topological questions
58B10 Differentiability questions
58B12 Questions of holomorphy [See also 32–XX, 46G20]
58B15 Fredholm structures [See also 47A53]
58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60]
58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05]
58B32 Geometry of quantum groups
58B34 Noncommutative geometry (à la Connes)
58B99 None of the above, but in this section
58Cxx Calculus on manifolds; nonlinear operators [See also 46Txx, 47Hxx, 47Jxx]
58C05 Real-valued functions
58C06 Set valued and function-space valued mappings [See also 47H04, 54C60]
58C07 Continuity properties of mappings
58C10 Holomorphic maps [See also 32–XX]
58C15 Implicit function theorems; global Newton methods
58C20 Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx, 46G05]
58C25 Differentiable maps
58C30 Fixed point theorems on manifolds [See also 47H10]
58C35 Integration on manifolds; measures on manifolds [See also 28Cxx]
58C40 Spectral theory; eigenvalue problems [See also 47J10, 58E07]
58C50 Analysis on supermanifolds or graded manifolds
58C99 None of the above, but in this section
58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx) [See also 46Txx, 53Cxx]
58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57S05]
58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47H20]
58D10 Spaces of imbeddings and immersions
58D15 Manifolds of mappings [See also 46T10, 54C35]
58D17 Manifolds of metrics (esp. Riemannian)
58D19 Group actions and symmetry properties
58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See also 28Cxx, 46T12]
58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K90, 35L90, 35R15, 37Lxx, 47Jxx]
58D27 Moduli problems for differential geometric structures

58D29 Moduli problems for topological structures
58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
58D99 None of the above, but in this section

58Exx Variational problems in infinite-dimensional spaces
58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel′man) theory, etc.)
58E07 Abstract bifurcation theory
58E09 Group-invariant bifurcation theory
58E10 Applications to the theory of geodesics (problems in one independent variable)
58E11 Critical metrics
58E12 Applications to minimal surfaces (problems in two independent variables) [See also 49Q05]
58E15 Application to extremal problems in several variables; Yang-Mills functionals [See also 81T13], etc.
58E17 Pareto optimality, etc., applications to economics [See also 90C29]
58E20 Harmonic maps [See also 53C43], etc.
58E25 Applications to control theory [See also 49–XX, 93–XX]
58E30 Variational principles
58E35 Variational inequalities (global problems)
58E40 Group actions
58E50 Applications
58E99 None of the above, but in this section

58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds
58H05 Pseudogroups and differentiable groupoids [See also 22A22, 22E65]
58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel′fand-Fuks, etc.) [See also 57R32]
58H15 Deformations of structures [See also 32Gxx, 58J10]
58H99 None of the above, but in this section

58Jxx Partial differential equations on manifolds; differential operators [See also 32Wxx, 35–XX, 53Cxx]
58J05 Elliptic equations on manifolds, general theory [See also 35–XX]
58J10 Differential complexes [See also 35Nxx]; elliptic complexes
58J15 Relations with hyperfunctions
58J20 Index theory and related fixed point theorems [See also 19K56, 46L80]
58J22 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20]
58J26 Elliptic genera
58J28 Eta-invariants, Chern-Simons invariants
58J30 Spectral flows
58J32 Boundary value problems on manifolds
58J35 Heat and other parabolic equation methods
58J37 Perturbations; asymptotics
58J40 Pseudodifferential and Fourier integral operators on manifolds [See also 35Sxx]
58J42 Noncommutative global analysis, noncommutative residues
58J45 Hyperbolic equations [See also 35Lxx]
58J47 Propagation of singularities; initial value problems
58J50 Spectral problems; spectral geometry; scattering theory [See also 35Pxx]
58J52 Determinants and determinant bundles, analytic torsion
58J53 Isospectrality
58J55 Bifurcation [See also 35B32]
58J60 Relations with special manifold structures (Riemannian, Finsler, etc.)
58J65 Diffusion processes and stochastic analysis on manifolds [See also 35R60, 60H10, 60J60]
58J70 Invariance and symmetry properties [See also 35A30]
58J72 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [See also 35A22]
58J90 Applications
58J99 None of the above, but in this section

58Kxx Theory of singularities and catastrophe theory [See also 32Sxx, 37–XX]
58K05 Critical points of functions and mappings
58K10 Monodromy
58K15 Topological properties of mappings
58K20 Algebraic and analytic properties of mappings
58K25 Stability
58K30 Global theory
58K35 Catastrophe theory
58K40 Classification; finite determinacy of map germs
58K45 Singularities of vector fields, topological aspects
58K50 Normal forms
58K55 Asymptotic behavior
58K60 Deformation of singularities
58K65 Topological invariants
58K70 Symmetries, equivariance
58K99 None of the above, but in this section

58Z05 Applications to physics

60–XX PROBABILITY THEORY AND STOCHASTIC PROCESSES {For additional applications, see 11Kxx, 62–XX, 90–XX, 91–XX, 92–XX, 93–XX, 94–XX}

60–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
60–01 Instructional exposition (textbooks, tutorial papers, etc.)
60–02 Research exposition (monographs, survey articles)
60–03 Historical (must also be assigned at least one classification number from Section 01)
60–04 Explicit machine computation and programs (not the theory of computation or programming)
60–06 Proceedings, conferences, collections, etc.
60–08 Computational methods (not classified at a more specific level) [See also 65C50]

60Axxx Foundations of probability theory
60A05 Axioms; other general questions
60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx}
60A99 None of the above, but in this section

60Bxx Probability theory on algebraic and topological structures
60B05 Probability measures on topological spaces
60B10 Convergence of probability measures
60B11 Probability theory on linear topological spaces [See also 28C20]
60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)
60B15 Probability measures on groups, Fourier transforms, factorization
60B99 None of the above, but in this section

60C05 Combinatorial probability

60D05 Geometric probability, stochastic geometry, random sets [See also 52A22, 53C65]

60Exx Distribution theory [See also 62Exx, 62Hxx]
60E05 Distributions: general theory
60E07 Infinitely divisible distributions; stable distributions
60E10 Characteristic functions; other transforms
60E15 Inequalities; stochastic orderings
60E99 None of the above, but in this section

60Fxx Limit theorems [See also 28Dxx, 60B12]
60F05 Central limit and other weak theorems
60F10 Large deviations
60F15 Strong theorems
60F17 Functional limit theorems; invariance principles
60F20 Zero-one laws
60F25 L^p-limit theorems
60F99 None of the above, but in this section

60Gxx Stochastic processes
60G05 Foundations of stochastic processes
60G07 General theory of processes
60G09 Exchangeability
60G10 Stationary processes
60G12 General second-order processes
60G15 Gaussian processes
60G17 Sample path properties
60G18 Self-similar processes
60G20 Generalized stochastic processes
60G25 Prediction theory [See also 62M20]
60G30 Continuity and singularity of induced measures
60G35 Applications (signal detection, filtering, etc.) [See also 62M20, 93E10, 93E11, 94Axx]
60G40 Stopping times; optimal stopping problems; gambling theory [See also 62L15, 91A60]
60G42 Martingales with discrete parameter
60G44 Martingales with continuous parameter
60G46 Martingales and classical analysis
60G48 Generalizations of martingales
60G50 Sums of independent random variables; random walks
60G51 Processes with independent increments
60G52 Stable processes
60G55 Point processes
60G57 Random measures
60G60 Random fields
60G70 Extreme value theory; extremal processes
60G99 None of the above, but in this section

60Hxx Stochastic analysis [See also 58J65]
60H05 Stochastic integrals
60H07 Stochastic calculus of variations and the Malliavin calculus
60H10 Stochastic ordinary differential equations [See also 34F05]
60H15 Stochastic partial differential equations [See also 35R60]
60H20 Stochastic integral equations
60H25 Random operators and equations [See also 47B80]
60H30 Applications of stochastic analysis (to PDE, etc.)
60H35 Computational methods for stochastic equations [See also 65C30]
60H40 White noise theory
60H99 None of the above, but in this section

60Jxx Markov processes
60J05 Markov processes with discrete parameter
60J10 Markov chains with discrete parameter
60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 91D10, 91D35, 91E40]
60J22 Computational methods in Markov chains [See also 65C40]
60J25 Markov processes with continuous parameter
60J27 Markov chains with continuous parameter
60J35 Transition functions, generators and resolvents [See also 47D03, 47D07]
60J40 Right processes
60J45 Probabilistic potential theory [See also 31Cxx, 31D05]
60J50 Boundary theory
60J55 Local time and additive functionals
60J57 Multiplicative functionals
60J60 Diffusion processes [See also 58J65]
60J65 Brownian motion [See also 58J65]
60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [See also 92Dxx]
60J75 Jump processes
60J80 Branching processes (Galton-Watson, birth-and-death, etc.)
60J85 Applications of branching processes [See also 92Dxx]
60J99 None of the above, but in this section
60Kxx Special processes
60K05 Renewal theory
60K10 Applications (reliability, demand theory, etc.)
60K15 Markov renewal processes, semi-Markov processes
60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]
60K25 Queueing theory [See also 68M20, 90B22]
60K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]
60K35 Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]
60K37 Processes in random environments
60K40 Other physical applications of random processes
60K99 None of the above, but in this section

62–XX STATISTICS
62–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
62–01 Instructional exposition (textbooks, tutorial papers, etc.)
62–02 Research exposition (monographs, survey articles)
62–03 Historical (must also be assigned at least one classification number from Section 01)
62–04 Explicit machine computation and programs (not the theory of computation or programming)
62–06 Proceedings, conferences, collections, etc.
62–07 Data analysis
62–09 Graphical methods
62A01 Foundational and philosophical topics
62Bxx Sufficiency and information
62B05 Sufficient statistics and fields
62B10 Information-theoretic topics [See also 94A17]
62B15 Theory of statistical experiments
62B99 None of the above, but in this section
62Cxx Decision theory [See also 90B50, 91B06; for game theory, see 91A35]
62C05 General considerations
62C07 Complete class results
62C10 Bayesian problems; characterization of Bayes procedures
62C12 Empirical decision procedures; empirical Bayes procedures
62C15 Admissibility
62C20 Minimax procedures
62C25 Compound decision problems
62C99 None of the above, but in this section
62D05 Sampling theory, sample surveys
62Exx Distribution theory [See also 60Exx]
62E10 Characterization and structure theory
62E15 Exact distribution theory
62E17 Approximations to distributions (nonasymptotic)
62E20 Asymptotic distribution theory
62E99 None of the above, but in this section
62Fxx Parametric inference
62F03 Hypothesis testing
62F05 Asymptotic properties of tests
62F07 Ranking and selection
62F10 Point estimation
62F12 Asymptotic properties of estimators
62F15 Bayesian inference
62F25 Tolerance and confidence regions
62F30 Inference under constraints
62F35 Robustness and adaptive procedures
62F40 Bootstrap, jackknife and other resampling methods
62F99 None of the above, but in this section
62Gxx Nonparametric inference
62G05 Estimation
62G07 Density estimation
62G08 Nonparametric regression
62G09 Resampling methods
62G10 Hypothesis testing
62G15 Tolerance and confidence regions
62G20 Asymptotic properties
62G30 Order statistics; empirical distribution functions
62G32 Statistics of extreme values; tail inference
62G35 Robustness
62G99 None of the above, but in this section
62Hxx Multivariate analysis [See also 60Exx]
62H05 Characterization and structure theory
62H10 Distribution of statistics
62H11 Directional data; spatial statistics
62H12 Estimation
62H15 Hypothesis testing
62H17 Contingency tables
62H20 Measures of association (correlation, canonical correlation, etc.)
62H25 Factor analysis and principal components; correspondence analysis
62H30 Classification and discrimination; cluster analysis [See also 68T10]
62H35 Image analysis
62H99 None of the above, but in this section
62Jxx Linear inference, regression
62J02 General nonlinear regression
62J05 Linear regression
62J07 Ridge regression; shrinkage estimators
62J10 Analysis of variance and covariance
62J12 Generalized linear models
62J15 Paired and multiple comparisons
62J20 Diagnostics
62J99 None of the above, but in this section
62Kxx Design of experiments [See also 05Bxx]
62K05 Optimal designs
62K10 Block designs
62K15 Factorial designs
62K20 Response surface designs
62K25 Robust parameter designs
62K99 None of the above, but in this section
62Lxx Sequential methods
62L05 Sequential design
62L10 Sequential analysis
62L12 Sequential estimation
62L15 Optimal stopping [See also 60G40, 91A60]
62L20 Stochastic approximation
62L99 None of the above, but in this section
62Mxx Inference from stochastic processes
62M02 Markov processes: hypothesis testing
62M05 Markov processes: estimation
62M07 Non-Markovian processes: hypothesis testing
62M09 Non-Markovian processes: estimation
62M10 Time series, auto-correlation, regression, etc. [See also 91B84]
62M15 Spectral analysis
62M20 Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
62M30 Spatial processes
62M40 Random fields; image analysis
62M45 Neural nets and related approaches
62M99 None of the above, but in this section
62Nxx Survival analysis and censored data
62N01 Censored data models
62N02 Estimation
62N03 Testing
62N05 Reliability and life testing [See also 90B25]
62N99 None of the above, but in this section
62Pxx Applications [See also 90–XX, 91–XX, 92–XX]
62P05 Applications to actuarial sciences and financial mathematics
62P10 Applications to biology and medical sciences
62P12 Applications to environmental and related topics
62P15 Applications to psychology
62P20 Applications to economics [See also 91Bxx]
62P25 Applications to social sciences
62P30 Applications in engineering and industry
62P35 Applications to physics
62P99 None of the above, but in this section
62Q05 Statistical tables

65–XX NUMERICAL ANALYSIS
65–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
65–01 Instructional exposition (textbooks, tutorial papers, etc.)
65–02 Research exposition (monographs, survey articles)
65–03 Historical (must also be assigned at least one classification number from Section 01)
65–04 Explicit machine computation and programs (not the theory of computation or programming)
65–05 Experimental papers
65–06 Proceedings, conferences, collections, etc.
65A05 Tables
65Bxx Acceleration of convergence
65B05 Extrapolation to the limit, deferred corrections
65B10 Summation of series
65B15 Euler-Maclaurin formula
65B99 None of the above, but in this section
65Cxx Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35}
65C05 Monte Carlo methods
65C10 Random number generation
65C20 Models, numerical methods [See also 68U20]
65C30 Stochastic differential and integral equations
65C35 Stochastic particle methods [See also 82C80]
65C40 Computational Markov chains
65C50 Other computational problems in probability
65C60 Computational problems in statistics
65C99 None of the above, but in this section
65Dxx Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx}
65D05 Interpolation
65D07 Splines
65D10 Smoothing, curve fitting
65D15 Algorithms for functional approximation
65D17 Computer aided design (modeling of curves and surfaces) [See also 68U07]
65D18 Computer graphics and computational geometry [See also 51N05, 68U05]
65D20 Computation of special functions, construction of tables [See also 33F05]
65D25 Numerical differentiation
65D30 Numerical integration
65D32 Quadrature and cubature formulas
65D99 None of the above, but in this section
65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30}
65Fxx Numerical linear algebra
65F05 Direct methods for linear systems and matrix inversion
65F10 Iterative methods for linear systems [See also 65N22]
65F15 Eigenvalues, eigenvectors
65F18 Inverse eigenvalue problems
65F20 Overdetermined systems, pseudoinverses
65F22 Ill-posedness, regularization
65F25 Orthogonalization
65F30 Other matrix algorithms
65F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60]
65F40 Determinants
65F50 Sparse matrices
65F99 None of the above, but in this section
65Gxx Error analysis and interval analysis
65G20 Algorithms with automatic result verification
65G30 Interval and finite arithmetic
65G40 General methods in interval analysis
65G50 Roundoff error
65G99 None of the above, but in this section
65Hxx Nonlinear algebraic or transcendental equations
65H05 Single equations
65H10 Systems of equations
65H17 Eigenvalues, eigenvectors [See also 47Hxx, 47Jxx, 58C40, 58E07, 90C30]
65H20 Global methods, including homotopy approaches [See also 58C30, 90C30]
65H99 None of the above, but in this section
65Jxx Numerical analysis in abstract spaces
65J05 General theory
65J10 Equations with linear operators (do not use 65Fxx)
65J15 Equations with nonlinear operators (do not use 65Hxx)
65J20 Improperly posed problems; regularization
65J22 Inverse problems
65J99 None of the above, but in this section
65Kxx Mathematical programming, optimization and variational techniques
65K05 Mathematical programming algorithms {For theory see 90Cxx}
65K10 Optimization and variational techniques [See also 49Mxx, 93B40]
65K99 None of the above, but in this section
65Lxx Ordinary differential equations
65L05 Initial value problems
65L06 Multistep, Runge-Kutta and extrapolation methods
65L07 Numerical investigation of stability of solutions
65L08 Improperly posed problems
65L09 Inverse problems
65L10 Boundary value problems
65L12 Finite difference methods
65L15 Eigenvalue problems
65L20 Stability and convergence of numerical methods
65L50 Mesh generation and refinement
65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
65L70 Error bounds
65L80 Methods for differential-algebraic equations
65L99 None of the above, but in this section
65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems
65M06 Finite difference methods
65M12 Stability and convergence of numerical methods
65M15 Error bounds
65M20 Method of lines
65M25 Method of characteristics
65M30 Improperly posed problems
65M32 Inverse problems
65M50 Mesh generation and refinement
65M55 Multigrid methods; domain decomposition
65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65M70 Spectral, collocation and related methods
65M99 None of the above, but in this section
65Nxx Partial differential equations, boundary value problems
65N06 Finite difference methods
65N12 Stability and convergence of numerical methods
65N15 Error bounds
65N21 Inverse problems
65N22 Solution of discretized equations [See also 65Fxx, 65Hxx]
65N25 Eigenvalue problems
65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65N35 Spectral, collocation and related methods
65N38 Boundary element methods
65N40 Method of lines
65N45 Method of contraction of the boundary
65N50 Mesh generation and refinement
65N55 Multigrid methods; domain decomposition
65N99 None of the above, but in this section
65Pxx Numerical problems in dynamical systems [See also 37Mxx]
65P10 Hamiltonian systems including symplectic integrators
65P20 Numerical chaos
65P30 Bifurcation problems
65P40 Nonlinear stabilities
65P99 None of the above, but in this section
65Q05 Difference and functional equations, recurrence relations
65Rxx Integral equations, integral transforms
65R10 Integral transforms
65R20 Integral equations
65R30 Improperly posed problems
65R32 Inverse problems
65R99 None of the above, but in this section
65S05 Graphical methods
65Txx Numerical methods in Fourier analysis
65T40 Trigonometric approximation and interpolation
65T50 Discrete and fast Fourier transforms
65T60 Wavelets
65T99 None of the above, but in this section
65Yxx Computer aspects of numerical algorithms
65Y05 Parallel computation
65Y10 Algorithms for specific classes of architectures
65Y15 Packaged methods
65Y20 Complexity and performance of numerical algorithms [See also 68Q25]
65Y99 None of the above, but in this section
65Z05 Applications to physics

68–XX **COMPUTER SCIENCE {For papers involving machine computations and programs in a specific mathematical area, see Section –04 in that area}**
68–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
68–01 Instructional exposition (textbooks, tutorial papers, etc.)
68–02 Research exposition (monographs, survey articles)
68–03 Historical (must also be assigned at least one classification number from Section 01)
68–04 Explicit machine computation and programs (not the theory of computation or programming)
68–06 Proceedings, conferences, collections, etc.
68Mxx **Computer system organization**
68M01 General
68M07 Mathematical problems of computer architecture
68M10 Network design and communication [See also 68R10, 90B18]
68M12 Network protocols
68M14 Distributed systems
68M15 Reliability, testing and fault tolerance [See also 94C12]
68M20 Performance evaluation; queueing; scheduling [See also 60K25, 90Bxx]
68M99 None of the above, but in this section
68Nxx **Software**
68N01 General
68N15 Programming languages
68N17 Logic programming
68N18 Functional programming and lambda calculus [See also 03B40]
68N19 Other programming techniques (object-oriented, sequential, concurrent, automatic, etc.)
68N20 Compilers and interpreters
68N25 Operating systems
68N30 Mathematical aspects of software engineering (specification, verification, metrics, requirements, etc.)
68N99 None of the above, but in this section
68Pxx **Theory of data**
68P01 General
68P05 Data structures
68P10 Searching and sorting
68P15 Database theory
68P20 Information storage and retrieval
68P25 Data encryption [See also 94A60, 81P68]
68P30 Coding and information theory (compaction, compression, models of communication, encoding schemes, etc.) [See also 94Axx]
68P99 None of the above, but in this section
68Qxx **Theory of computing**
68Q01 General
68Q05 Models of computation (Turing machines, etc.) [See also 03D10, 81P68]
68Q10 Modes of computation (nondeterministic, parallel, interactive, probabilistic, etc.) [See also 68Q85]
68Q15 Complexity classes (hierarchies, relations among complexity classes, etc.) [See also 03D15, 68Q17, 68Q19]
68Q17 Computational difficulty of problems (lower bounds, completeness, difficulty of approximation, etc.) [See also 68Q15]
68Q19 Descriptive complexity and finite models [See also 03C13]
68Q25 Analysis of algorithms and problem complexity [See also 68W40]
68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)
68Q32 Computational learning theory [See also 68T05]
68Q42 Grammars and rewriting systems
68Q45 Formal languages and automata [See also 03D05, 68Q70, 94A45]
68Q55 Semantics [See also 03B70, 06B35, 18C50]
68Q60 Specification and verification (program logics, model checking, etc.) [See also 03B70]
68Q65 Abstract data types; algebraic specification [See also 18C50]
68Q70 Algebraic theory of languages and automata [See also 18B20, 20M35]
68Q80 Cellular automata [See also 37B15]
68Q85 Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)
68Q99 None of the above, but in this section
68Rxx **Discrete mathematics in relation to computer science**
68R01 General
68R05 Combinatorics
68R10 Graph theory [See also 05Cxx, 90B10, 90B35, 90C35]
68R15 Combinatorics on words
68R99 None of the above, but in this section
68Txx **Artificial intelligence**
68T01 General
68T05 Learning and adaptive systems [See also 68Q32, 91E40]
68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30}
68T15 Theorem proving (deduction, resolution, etc.) [See also 03B35]
68T20 Problem solving (heuristics, search strategies, etc.)
68T27 Logic in artificial intelligence
68T30 Knowledge representation
68T35 Languages and software systems (knowledge-based systems, expert systems, etc.)
68T37 Reasoning under uncertainty
68T40 Robotics [See also 93C85]
68T45 Machine vision and scene understanding
68T50 Natural language processing [See also 03B65]
68T99 None of the above, but in this section
68Uxx **Computing methodologies and applications**
68U01 General
68U05 Computer graphics; computational geometry [See also 65D18]
68U07 Computer-aided design [See also 65D17]
68U10 Image processing
68U15 Text processing; mathematical typography
68U20 Simulation [See also 65Cxx]
68U35 Information systems (hypertext navigation, interfaces, decision support, etc.)
68U99 None of the above, but in this section
68Wxx **Algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx}**
68W01 General
68W05 Nonnumerical algorithms
68W10 Parallel algorithms
68W15 Distributed algorithms
68W20 Randomized algorithms
68W25 Approximation algorithms
68W30 Symbolic computation and algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16Z05, 17–08, 33F10]
68W35 VLSI algorithms
68W40 Analysis of algorithms [See also 68Q25]
68W99 None of the above, but in this section

70–XX **MECHANICS OF PARTICLES AND SYSTEMS {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX}**
70–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
70–01 Instructional exposition (textbooks, tutorial papers, etc.)
70–02 Research exposition (monographs, survey articles)
70–03 Historical (must also be assigned at least one classification number from Section 01)
70–04 Explicit machine computation and programs (not the theory of computation or programming)
70–05 Experimental work
70–06 Proceedings, conferences, collections, etc.
70–08 Computational methods
70A05 **Axiomatics, foundations**
70Bxx **Kinematics [See also 53A17]**
70B05 Kinematics of a particle
70B10 Kinematics of a rigid body
70B15 Mechanisms, robots [See also 68T40, 70Q05, 93C85]
70B99 None of the above, but in this section
70C20 **Statics**
70Exx **Dynamics of a rigid body and of multibody systems**
70E05 Motion of the gyroscope
70E15 Free motion of a rigid body [See also 70M20]
70E17 Motion of a rigid body with a fixed point
70E18 Motion of a rigid body in contact with a solid surface [See also 70F25]
70E20 Perturbation methods for rigid body dynamics
70E40 Integrable cases of motion
70E45 Higher-dimensional generalizations
70E50 Stability problems
70E55 Dynamics of multibody systems
70E60 Robot dynamics and control [See also 68T40, 70Q05, 93C85]
70E99 None of the above, but in this section
70Fxx **Dynamics of a system of particles, including celestial mechanics**
70F05 Two-body problems
70F07 Three-body problems
70F10 n-body problems
70F15 Celestial mechanics
70F16 Collisions in celestial mechanics, regularization
70F17 Inverse problems
70F20 Holonomic systems
70F25 Nonholonomic systems
70F35 Collision of rigid or pseudo-rigid bodies
70F40 Problems with friction
70F45 Infinite particle systems
70F99 None of the above, but in this section
70Gxx **General models, approaches, and methods [See also 37–XX]**
70G10 Generalized coordinates; event, impulse-energy, configuration, state, or phase space
70G40 Topological and differential-topological methods
70G45 Differential-geometric methods (tensors, connections, symplectic, Poisson, contact, Riemannian, nonholonomic, etc.) [See also 53Cxx, 53Dxx, 58Axx]

70G55 Algebraic geometry methods
70G60 Dynamical systems methods
70G65 Symmetries, Lie-group and Lie-algebra methods
70G70 Functional-analytic methods
70G75 Variational methods
70G99 None of the above, but in this section
70Hxx Hamiltonian and Lagrangian mechanics [See also 37Jxx]
70H03 Lagrange's equations
70H05 Hamilton's equations
70H06 Completely integrable systems and methods of integration
70H07 Nonintegrable systems
70H08 Nearly integrable Hamiltonian systems, KAM theory
70H09 Perturbation theories
70H11 Adiabatic invariants
70H12 Periodic and almost periodic solutions
70H14 Stability problems
70H15 Canonical and symplectic transformations
70H20 Hamilton-Jacobi equations
70H25 Hamilton's principle
70H30 Other variational principles
70H33 Symmetries and conservation laws, reverse symmetries, invariant manifolds and their bifurcations, reduction
70H40 Relativistic dynamics
70H45 Constrained dynamics, Dirac's theory of constraints [See also 70F20, 70F25, 70Gxx]
70H50 Higher-order theories
70H99 None of the above, but in this section
70Jxx Linear vibration theory
70J10 Modal analysis
70J25 Stability
70J30 Free motions
70J35 Forced motions
70J40 Parametric resonances
70J50 Systems arising from the discretization of structural vibration problems
70J99 None of the above, but in this section
70Kxx Nonlinear dynamics [See also 34Cxx, 37–XX]
70K05 Phase plane analysis, limit cycles
70K20 Stability
70K25 Free motions
70K28 Parametric resonances
70K30 Nonlinear resonances
70K40 Forced motions
70K42 Equilibria and periodic trajectories
70K43 Quasi-periodic motions and invariant tori
70K44 Homoclinic and heteroclinic trajectories
70K45 Normal forms
70K50 Bifurcations and instability
70K55 Transition to stochasticity (chaotic behavior) [See also 37D45]
70K60 General perturbation schemes
70K65 Averaging of perturbations
70K70 Systems with slow and fast motions
70K75 Nonlinear modes
70K99 None of the above, but in this section
70L05 Random vibrations [See also 74H50]
70M20 Orbital mechanics
70P05 Variable mass, rockets
70Q05 Control of mechanical systems [See also 58F13, 58F27, 60Gxx, 60Jxx]
70Sxx Classical field theories [See also 37Kxx, 37Lxx, 78–XX, 81Txx, 83–XX]
70S05 Lagrangian formalism and Hamiltonian formalism
70S10 Symmetries and conservation laws
70S15 Yang-Mills and other gauge theories
70S20 More general nonquantum field theories
70S99 None of the above, but in this section

74–XX MECHANICS OF DEFORMABLE SOLIDS
74–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
74–01 Instructional exposition (textbooks, tutorial papers, etc.)
74–02 Research exposition (monographs, survey articles)
74–03 Historical (must also be assigned at least one classification number from Section 01)
74–04 Explicit machine computation and programs (not the theory of computation or programming)
74–05 Experimental work
74–06 Proceedings, conferences, collections, etc.
74Axx Generalities, axiomatics, foundations of continuum mechanics of solids
74A05 Kinematics of deformation
74A10 Stress
74A15 Thermodynamics
74A20 Theory of constitutive functions
74A25 Molecular, statistical, and kinetic theories
74A30 Nonsimple materials
74A35 Polar materials
74A40 Random materials and composite materials
74A45 Theories of fracture and damage
74A50 Structured surfaces and interfaces, coexistent phases
74A55 Theories of friction (tribology)
74A60 Micromechanical theories
74A65 Reactive materials
74A99 None of the above, but in this section
74Bxx Elastic materials
74B05 Classical linear elasticity
74B10 Linear elasticity with initial stresses
74B15 Equations linearized about a deformed state (small deformations superposed on large)
74B20 Nonlinear elasticity
74B99 None of the above, but in this section
74Cxx Plastic materials, materials of stress-rate and internal-variable type
74C05 Small-strain, rate-independent theories (including rigid-plastic and elasto-plastic materials)
74C10 Small-strain, rate-dependent theories (including theories of viscoplasticity)
74C15 Large-strain, rate-independent theories (including nonlinear plasticity)
74C20 Large-strain, rate-dependent theories
74C99 None of the above, but in this section
74Dxx Materials of strain-rate type and history type, other materials with memory (including elastic materials with viscous damping, various viscoelastic materials)
74D05 Linear constitutive equations
74D10 Nonlinear constitutive equations
74D99 None of the above, but in this section
74Exx Material properties given special treatment
74E05 Inhomogeneity
74E10 Anisotropy
74E15 Crystalline structure
74E20 Granularity
74E25 Texture
74E30 Composite and mixture properties
74E35 Random structure
74E40 Chemical structure
74E99 None of the above, but in this section
74Fxx Coupling of solid mechanics with other effects
74F05 Thermal effects
74F10 Fluid-solid interactions (including aero- and hydro-elasticity, porosity, etc.)
74F15 Electromagnetic effects
74F20 Mixture effects
74F25 Chemical and reactive effects
74F99 None of the above, but in this section
74Gxx Equilibrium (steady-state) problems
74G05 Explicit solutions
74G10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)
74G15 Numerical approximation of solutions
74G20 Local existence of solutions (near a given solution)
74G25 Global existence of solutions
74G30 Uniqueness of solutions
74G35 Multiplicity of solutions
74G40 Regularity of solutions
74G45 Bounds for solutions
74G50 Saint-Venant's principle
74G55 Qualitative behavior of solutions
74G60 Bifurcation and buckling
74G65 Energy minimization
74G70 Stress concentrations, singularities
74G75 Inverse problems
74G99 None of the above, but in this section
74Hxx Dynamical problems
74H05 Explicit solutions
74H10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)
74H15 Numerical approximation of solutions
74H20 Existence of solutions
74H25 Uniqueness of solutions
74H30 Regularity of solutions
74H35 Singularities, blowup, stress concentrations
74H40 Long-time behavior of solutions
74H45 Vibrations
74H50 Random vibrations
74H55 Stability
74H60 Dynamical bifurcation
74H65 Chaotic behavior
74H99 None of the above, but in this section

74Jxx Waves
74J05 Linear waves
74J10 Bulk waves
74J15 Surface waves
74J20 Wave scattering
74J25 Inverse problems
74J30 Nonlinear waves
74J35 Solitary waves
74J40 Shocks and related discontinuities
74J99 None of the above, but in this section
74Kxx Thin bodies, structures
74K05 Strings
74K10 Rods (beams, columns, shafts, arches, rings, etc.)
74K15 Membranes
74K20 Plates
74K25 Shells
74K30 Junctions
74K35 Thin films
74K99 None of the above, but in this section
74Lxx Special subfields of solid mechanics
74L05 Geophysical solid mechanics [See also 86–XX]
74L10 Soil and rock mechanics
74L15 Biomechanical solid mechanics [See also 92C10]
74L99 None of the above, but in this section
74Mxx Special kinds of problems
74M05 Control, switches and devices ("smart materials") [See also 93Cxx]
74M10 Friction
74M15 Contact
74M20 Impact
74M25 Micromechanics
74M99 None of the above, but in this section
74Nxx Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26]
74N05 Crystals
74N10 Displacive transformations
74N15 Analysis of microstructure
74N20 Dynamics of phase boundaries
74N25 Transformations involving diffusion
74N30 Problems involving hysteresis
74N99 None of the above, but in this section
74Pxx Optimization [See also 49Qxx]
74P05 Compliance or weight optimization
74P10 Optimization of other properties
74P15 Topological methods
74P20 Geometrical methods
74P99 None of the above, but in this section
74Qxx Homogenization, determination of effective properties
74Q05 Homogenization in equilibrium problems
74Q10 Homogenization and oscillations in dynamical problems
74Q15 Effective constitutive equations
74Q20 Bounds on effective properties
74Q99 None of the above, but in this section
74Rxx Fracture and damage
74R05 Brittle damage
74R10 Brittle fracture
74R15 High-velocity fracture
74R20 Anelastic fracture and damage
74R99 None of the above, but in this section
74Sxx Numerical methods [See also 65–XX, 74G15, 74H15]
74S05 Finite element methods
74S10 Finite volume methods
74S15 Boundary element methods
74S20 Finite difference methods
74S25 Spectral and related methods
74S30 Other numerical methods
74S99 None of the above, but in this section

76–XX FLUID MECHANICS {For general continuum mechanics, see 74Axx, or other parts of 74–XX}
76–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
76–01 Instructional exposition (textbooks, tutorial papers, etc.)
76–02 Research exposition (monographs, survey articles)
76–03 Historical (must also be assigned at least one classification number from Section 01)
76–04 Explicit machine computation and programs (not the theory of computation or programming)
76–05 Experimental work
76–06 Proceedings, conferences, collections, etc.
76Axx Foundations, constitutive equations, rheology
76A02 Foundations of fluid mechanics
76A05 Non-Newtonian fluids
76A10 Viscoelastic fluids
76A15 Liquid crystals [See also 82D30]
76A20 Thin fluid films
76A25 Superfluids (classical aspects)
76A99 None of the above, but in this section
76Bxx Incompressible inviscid fluids
76B03 Existence, uniqueness, and regularity theory [See also 35Q35]
76B07 Free-surface potential flows
76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, airfoil and hydrofoil theory, sloshing
76B15 Water waves, gravity waves; dispersion and scattering, nonlinear interaction [See also 35Q30, 35Q53]
76B20 Ship waves
76B25 Solitary waves [See also 35Q51]
76B45 Capillarity (surface tension) [See also 76D45]
76B47 Vortex flows
76B55 Internal waves
76B60 Atmospheric waves [See also 86A10]
76B65 Rossby waves [See also 86A05, 86A10]
76B70 Stratification effects in inviscid fluids
76B75 Flow control and optimization [See also 49Q10, 93C20, 93C95]
76B99 None of the above, but in this section
76Dxx Incompressible viscous fluids
76D03 Existence, uniqueness, and regularity theory [See also 35Q30, 35Q35]
76D05 Navier-Stokes equations [See also 35Q30]
76D06 Statistical solutions of Navier-Stokes and related equations [See also 60H30, 76M35]
76D07 Stokes and related (Oseen, etc.) flows
76D08 Lubrication theory
76D09 Viscous-inviscid interaction
76D10 Boundary-layer theory, separation and reattachment, higher-order effects
76D17 Viscous vortex flows
76D25 Wakes and jets
76D27 Other free-boundary flows; Hele-Shaw flows
76D33 Waves
76D45 Capillarity (surface tension) [See also 76B45]
76D50 Stratification effects in viscous fluids
76D55 Flow control and optimization [See also 49Q10, 93C20, 93C95]
76D99 None of the above, but in this section
76Exx Hydrodynamic stability
76E05 Parallel shear flows
76E06 Convection
76E07 Rotation
76E09 Stability and instability of nonparallel flows
76E15 Absolute and convective instability and stability
76E17 Interfacial stability and instability
76E19 Compressibility effects
76E20 Stability and instability of geophysical and astrophysical flows
76E25 Stability and instability of magnetohydrodynamic and electrohydrodynamic flows
76E30 Nonlinear effects
76E99 None of the above, but in this section
76Fxx Turbulence [See also 37–XX, 60Gxx, 60Jxx]
76F02 Fundamentals
76F05 Isotropic turbulence; homogeneous turbulence
76F06 Transition to turbulence
76F10 Shear flows
76F20 Dynamical systems approach to turbulence [See also 37–XX]
76F25 Turbulent transport, mixing
76F30 Renormalization and other field-theoretical methods [See also 81T99]
76F35 Convective turbulence [See also 76E15, 76Rxx]
76F40 Turbulent boundary layers
76F45 Stratification effects
76F50 Compressibility effects
76F55 Statistical turbulence modeling [See also 76M35]
76F60 k-ε modeling
76F65 Direct numerical and large eddy simulation of turbulence
76F70 Control of turbulent flows
76F99 None of the above, but in this section
76G25 General aerodynamics and subsonic flows
76H05 Transonic flows
76J20 Supersonic flows
76K05 Hypersonic flows
76L05 Shock waves and blast waves [See also 35L67]
76Mxx Basic methods in fluid mechanics [See also 65–XX]
76M10 Finite element methods
76M12 Finite volume methods
76M15 Boundary element methods
76M20 Finite difference methods
76M22 Spectral methods
76M23 Vortex methods
76M25 Other numerical methods
76M27 Visualization algorithms

76M28 Particle methods and lattice-gas methods
76M30 Variational methods
76M35 Stochastic analysis
76M40 Complex-variables methods
76M45 Asymptotic methods, singular perturbations
76M50 Homogenization
76M55 Dimensional analysis and similarity
76M60 Symmetry analysis, Lie group and algebra methods
76M99 None of the above, but in this section
76Nxx Compressible fluids and gas dynamics, general
76N10 Existence, uniqueness, and regularity theory [See also 35L60, 35L65, 35Q30]
76N15 Gas dynamics, general
76N17 Viscous-inviscid interaction
76N20 Boundary-layer theory
76N25 Flow control and optimization
76N99 None of the above, but in this section
76P05 Rarefied gas flows, Boltzmann equation [See also 82B40, 82C40, 82D05]
76Q05 Hydro- and aero-acoustics
76Rxx Diffusion and convection
76R05 Forced convection
76R10 Free convection
76R50 Diffusion [See also 60J60]
76R99 None of the above, but in this section
76S05 Flows in porous media; filtration; seepage
76Txx Two-phase and multiphase flows
76T10 Liquid-gas two-phase flows, bubbly flows
76T15 Dusty-gas two-phase flows
76T20 Suspensions
76T25 Granular flows [See also 74C99, 74E20]
76T30 Three or more component flows
76T99 None of the above, but in this section
76U05 Rotating fluids
76V05 Reaction effects in flows [See also 80A32]
76W05 Magnetohydrodynamics and electrohydrodynamics
76X05 Ionized gas flow in electromagnetic fields; plasmic flow [See also 82D10]
76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30]
76Zxx Biological fluid mechanics [See also 74F10, 74L15, 92Cxx]
76Z05 Physiological flows [See also 92C35]
76Z10 Biopropulsion in water and in air
76Z99 None of the above, but in this section

78–XX OPTICS, ELECTROMAGNETIC THEORY {For quantum optics, see 81V80}
78–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
78–01 Instructional exposition (textbooks, tutorial papers, etc.)
78–02 Research exposition (monographs, survey articles)
78–03 Historical (must also be assigned at least one classification number from Section 01)
78–04 Explicit machine computation and programs (not the theory of computation or programming)
78–05 Experimental work
78–06 Proceedings, conferences, collections, etc.
78Axx General
78A02 Foundations
78A05 Geometric optics
78A10 Physical optics
78A15 Electron optics
78A20 Space charge waves
78A25 Electromagnetic theory, general
78A30 Electro- and magnetostatics
78A35 Motion of charged particles
78A40 Waves and radiation
78A45 Diffraction, scattering [See also 34E20 for WKB methods]
78A46 Inverse scattering problems
78A48 Composite media; random media
78A50 Antennas, wave-guides
78A55 Technical applications
78A60 Lasers, masers, optical bistability, nonlinear optics [See also 81V80]
78A70 Biological applications [See also 91D30, 92C30]
78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
78A99 Miscellaneous topics
78Mxx Basic methods
78M05 Method of moments
78M10 Finite element methods
78M15 Boundary element methods
78M20 Finite difference methods
78M25 Other numerical methods
78M30 Variational methods
78M35 Asymptotic analysis
78M40 Homogenization
78M50 Optimization
78M99 None of the above, but in this section

80–XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER {For thermodynamics of solids, see 74A15}
80–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
80–01 Instructional exposition (textbooks, tutorial papers, etc.)
80–02 Research exposition (monographs, survey articles)
80–03 Historical (must also be assigned at least one classification number from Section 01)
80–04 Explicit machine computation and programs (not the theory of computation or programming)
80–05 Experimental work
80–06 Proceedings, conferences, collections, etc.
80Axx Thermodynamics and heat transfer
80A05 Foundations
80A10 Classical thermodynamics, including relativistic
80A17 Thermodynamics of continua [See also 74A15]
80A20 Heat and mass transfer, heat flow
80A22 Stefan problems, phase changes, etc. [See also 74Nxx]
80A23 Inverse problems
80A25 Combustion
80A30 Chemical kinetics [See also 76V05, 92C45, 92E20]
80A32 Chemically reacting flows [See also 92C45, 92E20]
80A50 Chemistry (general) [See mainly 92Exx]
80A99 None of the above, but in this section
80Mxx Basic methods
80M10 Finite element methods
80M15 Boundary element methods
80M20 Finite difference methods
80M25 Other numerical methods
80M30 Variational methods
80M35 Asymptotic analysis
80M40 Homogenization
80M50 Optimization
80M99 None of the above, but in this section

81–XX QUANTUM THEORY
81–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
81–01 Instructional exposition (textbooks, tutorial papers, etc.)
81–02 Research exposition (monographs, survey articles)
81–03 Historical (must also be assigned at least one classification number from Section 01)
81–04 Explicit machine computation and programs (not the theory of computation or programming)
81–05 Experimental papers
81–06 Proceedings, conferences, collections, etc.
81–08 Computational methods
81Pxx Axiomatics, foundations, philosophy
81P05 General and philosophical
81P10 Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15]
81P15 Quantum measurement theory
81P20 Stochastic mechanics (including stochastic electrodynamics)
81P68 Quantum computation and quantum cryptography [See also 68Q05, 94A60]
81P99 None of the above, but in this section
81Qxx General mathematical topics and methods in quantum theory
81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum-mechanical equations
81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
81Q15 Perturbation theories for operators and differential equations
81Q20 Semiclassical techniques including WKB and Maslov methods
81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
81Q40 Bethe-Salpeter and other integral equations
81Q50 Quantum chaos [See also 37Dxx]
81Q60 Supersymmetric quantum mechanics
81Q70 Differential-geometric methods, including holonomy, Berry and Hannay phases, etc.
81Q99 None of the above, but in this section
81Rxx Groups and algebras in quantum theory
81R05 Finite-dimensional groups and algebras motivated by physics and their representations [See also 20C35, 22E70]
81R10 Infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody, W-algebras and other current algebras and their representations [See also 17B65, 17B67, 22E65, 22E67, 22E70]
81R12 Relations with integrable systems [See also 17Bxx, 37J35]
81R15 Operator algebra methods [See also 46Lxx, 81T05]

81R20 Covariant wave equations
81R25 Spinor and twistor methods [See also 32L25]
81R30 Coherent states [See also 22E45]; squeezed states [See also 81V80]
81R40 Symmetry breaking
81R50 Quantum groups and related algebraic methods [See also 16W35, 17B37]
81R60 Noncommutative geometry
81R99 None of the above, but in this section
81Sxx General quantum mechanics and problems of quantization
81S05 Commutation relations and statistics
81S10 Geometry and quantization, symplectic methods [See also 53D50]
81S20 Stochastic quantization
81S25 Quantum stochastic calculus
81S30 Phase space methods including Wigner distributions, etc.
81S40 Path integrals [See also 58D30]
81S99 None of the above, but in this section
81Txx Quantum field theory; related classical field theories [See also 70Sxx]
81T05 Axiomatic quantum field theory; operator algebras
81T08 Constructive quantum field theory
81T10 Model quantum field theories
81T13 Yang-Mills and other gauge theories [See also 53C07, 58E15]
81T15 Perturbative methods of renormalization
81T16 Nonperturbative methods of renormalization
81T17 Renormalization group methods
81T18 Feynman diagrams
81T20 Quantum field theory on curved space backgrounds
81T25 Quantum field theory on lattices
81T27 Continuum limits
81T30 String and superstring theories; other extended objects (e.g., branes) [See also 83E30]
81T40 Two-dimensional field theories, conformal field theories, etc.
81T45 Topological field theories [See also 57R56, 58Dxx]
81T50 Anomalies
81T60 Supersymmetric field theories
81T70 Quantization in field theory; cohomological methods [See also 58D29]
81T75 Noncommutative geometry methods [See also 46L85, 46L87, 58B34]
81T80 Simulation and numerical modeling
81T99 None of the above, but in this section
81Uxx Scattering theory [See also 34A55, 34L25, 34L40, 35P25, 47A40]
81U05 2-body potential scattering theory [See also 34E20 for WKB methods]
81U10 n-body potential scattering theory
81U15 Exactly and quasi-solvable systems
81U20 S-matrix theory, etc.
81U30 Dispersion theory, dispersion relations
81U40 Inverse scattering problems
81U99 None of the above, but in this section
81Vxx Applications to specific physical systems
81V05 Strong interaction, including quantum chromodynamics
81V10 Electromagnetic interaction; quantum electrodynamics
81V15 Weak interaction
81V17 Gravitational interaction [See also 83Cxx and 83Exx]
81V19 Other fundamental interactions
81V22 Unified theories
81V25 Other elementary particle theory
81V35 Nuclear physics
81V45 Atomic physics
81V55 Molecular physics [See also 92E10]
81V70 Many-body theory; quantum Hall effect
81V80 Quantum optics
81V99 None of the above, but in this section

82–XX STATISTICAL MECHANICS, STRUCTURE OF MATTER

82–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
82–01 Instructional exposition (textbooks, tutorial papers, etc.)
82–02 Research exposition (monographs, survey articles)
82–03 Historical (must also be assigned at least one classification number from Section 01)
82–04 Explicit machine computation and programs (not the theory of computation or programming)
82–05 Experimental papers
82–06 Proceedings, conferences, collections, etc.
82–08 Computational methods
82Bxx Equilibrium statistical mechanics
82B03 Foundations
82B05 Classical equilibrium statistical mechanics (general)
82B10 Quantum equilibrium statistical mechanics (general)
82B20 Lattice systems (Ising, dimer, Potts, etc.) and systems on graphs
82B21 Continuum models (systems of particles, etc.)
82B23 Exactly solvable models; Bethe ansatz
82B24 Interface problems; diffusion-limited aggregation
82B26 Phase transitions (general)
82B27 Critical phenomena
82B28 Renormalization group methods [See also 81T17]
82B30 Statistical thermodynamics [See also 80–XX]
82B31 Stochastic methods
82B35 Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20]
82B40 Kinetic theory of gases
82B41 Random walks, random surfaces, lattice animals, etc. [See also 60G50, 82C41]
82B43 Percolation [See also 60K35]
82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)
82B80 Numerical methods (Monte Carlo, series resummation, etc.) [See also 65–XX, 81T80]
82B99 None of the above, but in this section
82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)
82C03 Foundations
82C05 Classical dynamic and nonequilibrium statistical mechanics (general)
82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)
82C20 Dynamic lattice systems (kinetic Ising, etc.) and systems on graphs
82C21 Dynamic continuum models (systems of particles, etc.)
82C22 Interacting particle systems [See also 60K35]
82C23 Exactly solvable dynamic models [See also 37K60]
82C24 Interface problems; diffusion-limited aggregation
82C26 Dynamic and nonequilibrium phase transitions (general)
82C27 Dynamic critical phenomena
82C28 Dynamic renormalization group methods [See also 81T17]
82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10]
82C32 Neural nets [See also 68T05, 91E40, 92B20]
82C35 Irreversible thermodynamics, including Onsager-Machlup theory
82C40 Kinetic theory of gases
82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60G50]
82C43 Time-dependent percolation [See also 60K35]
82C44 Dynamics of disordered systems (random Ising systems, etc.)
82C70 Transport processes
82C80 Numerical methods (Monte Carlo, series resummation, etc.)
82C99 None of the above, but in this section
82Dxx Applications to specific types of physical systems
82D05 Gases
82D10 Plasmas
82D15 Liquids
82D20 Solids
82D25 Crystals {For crystallographic group theory, see 20H15}
82D30 Random media, disordered materials (including liquid crystals and spin glasses)
82D35 Metals
82D37 Semiconductors
82D40 Magnetic materials
82D45 Ferroelectrics
82D50 Superfluids
82D55 Superconductors
82D60 Polymers
82D75 Nuclear reactor theory; neutron transport
82D99 None of the above, but in this section

83–XX RELATIVITY AND GRAVITATIONAL THEORY

83–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
83–01 Instructional exposition (textbooks, tutorial papers, etc.)
83–02 Research exposition (monographs, survey articles)
83–03 Historical (must also be assigned at least one classification number from Section 01)
83–04 Explicit machine computation and programs (not the theory of computation or programming)
83–05 Experimental work
83–06 Proceedings, conferences, collections, etc.
83–08 Computational methods
83A05 Special relativity
83B05 Observational and experimental questions
83Cxx General relativity
83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)
83C10 Equations of motion
83C15 Exact solutions
83C20 Classes of solutions; algebraically special solutions, metrics with symmetries
83C22 Einstein-Maxwell equations
83C25 Approximation procedures, weak fields
83C27 Lattice gravity, Regge calculus and other discrete methods
83C30 Asymptotic procedures (radiation, news functions, $\mathscr{H}$-spaces, etc.)
83C35 Gravitational waves
83C40 Gravitational energy and conservation laws; groups of motions
83C45 Quantization of the gravitational field

83C47 Methods of quantum field theory [See also 81T20]
83C50 Electromagnetic fields
83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)
83C57 Black holes
83C60 Spinor and twistor methods; Newman-Penrose formalism
83C65 Methods of noncommutative geometry [See also 58B34]
83C75 Space-time singularities, cosmic censorship, etc.
83C80 Analogues in lower dimensions
83C99 None of the above, but in this section
83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories
83Exx Unified, higher-dimensional and super field theories
83E05 Geometrodynamics
83E15 Kaluza-Klein and other higher-dimensional theories
83E30 String and superstring theories [See also 81T30]
83E50 Supergravity
83E99 None of the above, but in this section
83F05 Cosmology

85–XX ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15}
85–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
85–01 Instructional exposition (textbooks, tutorial papers, etc.)
85–02 Research exposition (monographs, survey articles)
85–03 Historical (must also be assigned at least one classification number from Section 01)
85–04 Explicit machine computation and programs (not the theory of computation or programming)
85–05 Experimental work
85–06 Proceedings, conferences, collections, etc.
85–08 Computational methods
85A04 General
85A05 Galactic and stellar dynamics
85A15 Galactic and stellar structure
85A20 Planetary atmospheres
85A25 Radiative transfer
85A30 Hydrodynamic and hydromagnetic problems [See also 76Y05]
85A35 Statistical astronomy
85A40 Cosmology {For relativistic cosmology, see 83F05}
85A99 Miscellaneous topics

86–XX GEOPHYSICS [See also 76U05, 76V05]
86–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
86–01 Instructional exposition (textbooks, tutorial papers, etc.)
86–02 Research exposition (monographs, survey articles)
86–03 Historical (must also be assigned at least one classification number from Section 01)
86–04 Explicit machine computation and programs (not the theory of computation or programming)
86–05 Experimental work
86–06 Proceedings, conferences, collections, etc.
86–08 Computational methods
86A04 General
86A05 Hydrology, hydrography, oceanography [See also 76Bxx, 76E20, 76Q05, 76Rxx, 76U05]
86A10 Meteorology and atmospheric physics [See also 76Bxx, 76E20, 76N15, 76Q05, 76Rxx, 76U05]
86A15 Seismology
86A17 Global dynamics, earthquake problems
86A20 Potentials, prospecting
86A22 Inverse problems [See also 35R30]
86A25 Geo-electricity and geomagnetism [See also 76W05, 78A25]
86A30 Geodesy, mapping problems
86A32 Geostatistics
86A40 Glaciology
86A60 Geological problems
86A99 Miscellaneous topics

90–XX OPERATIONS RESEARCH, MATHEMATICAL PROGRAMMING
90–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
90–01 Instructional exposition (textbooks, tutorial papers, etc.)
90–02 Research exposition (monographs, survey articles)
90–03 Historical (must also be assigned at least one classification number from Section 01)
90–04 Explicit machine computation and programs (not the theory of computation or programming)
90–06 Proceedings, conferences, collections, etc.
90–08 Computational methods
90Bxx Operations research and management science
90B05 Inventory, storage, reservoirs
90B06 Transportation, logistics
90B10 Network models, deterministic
90B15 Network models, stochastic
90B18 Communication networks [See also 68M10, 94A05]
90B20 Traffic problems
90B22 Queues and service [See also 60K25, 68M20]
90B25 Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
90B30 Production models
90B35 Scheduling theory, deterministic [See also 68M20]
90B36 Scheduling theory, stochastic [See also 68M20]
90B40 Search theory
90B50 Management decision making, including multiple objectives [See also 90C31, 91A35, 91B06]
90B60 Marketing, advertising [See also 91B60]
90B70 Theory of organizations, manpower planning [See also 91D35]
90B80 Discrete location and assignment [See also 90C10]
90B85 Continuous location
90B90 Case-oriented studies
90B99 None of the above, but in this section
90Cxx Mathematical programming [See also 49Mxx, 65Kxx]
90C05 Linear programming
90C06 Large-scale problems
90C08 Special problems of linear programming (transportation, multi-index, etc.)
90C09 Boolean programming
90C10 Integer programming
90C11 Mixed integer programming
90C15 Stochastic programming
90C20 Quadratic programming
90C22 Semidefinite programming
90C25 Convex programming
90C26 Nonconvex programming
90C27 Combinatorial optimization
90C29 Multi-objective and goal programming
90C30 Nonlinear programming
90C31 Sensitivity, stability, parametric optimization
90C32 Fractional programming
90C33 Complementarity problems
90C34 Semi-infinite programming
90C35 Programming involving graphs or networks [See also 90C27]
90C39 Dynamic programming [See also 49L20]
90C40 Markov and semi-Markov decision processes
90C46 Optimality conditions, duality [See also 49N15]
90C47 Minimax problems [See also 49K35]
90C48 Programming in abstract spaces
90C49 Extreme-point and pivoting methods
90C51 Interior-point methods
90C52 Methods of reduced gradient type
90C53 Methods of quasi-Newton type
90C55 Methods of successive quadratic programming type
90C56 Derivative-free methods
90C57 Polyhedral combinatorics, branch-and-bound, branch-and-cut
90C59 Approximation methods and heuristics
90C60 Abstract computational complexity for mathematical programming problems [See also 68Q25]
90C70 Fuzzy programming
90C90 Applications of mathematical programming
90C99 None of the above, but in this section

91–XX GAME THEORY, ECONOMICS, SOCIAL AND BEHAVIORAL SCIENCES
91–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
91–01 Instructional exposition (textbooks, tutorial papers, etc.)
91–02 Research exposition (monographs, survey articles)
91–03 Historical (must also be assigned at least one classification number from section 01)
91–04 Explicit machine computation and programs (not the theory of computation or programming)
91–06 Proceedings, conferences, collections, etc.
91–08 Computational methods
91Axx Game theory
91A05 2-person games
91A06 n-person games, $n > 2$
91A10 Noncooperative games
91A12 Cooperative games
91A13 Games with infinitely many players
91A15 Stochastic games
91A18 Games in extensive form
91A20 Multistage and repeated games
91A22 Evolutionary games
91A23 Differential games [See also 49N70]
91A24 Positional games (pursuit and evasion, etc.) [See also 49N75]
91A25 Dynamic games
91A26 Rationality, learning

91A28 Signaling, communication
91A30 Utility theory for games [See also 91B16]
91A35 Decision theory for games [See also 62Cxx, 91B06, 90B50]
91A40 Game-theoretic models
91A43 Games involving graphs
91A44 Games involving topology or set theory
91A46 Combinatorial games
91A50 Discrete-time games
91A55 Games of timing
91A60 Probabilistic games; gambling
91A65 Hierarchical games
91A70 Spaces of games
91A80 Applications of game theory
91A90 Experimental studies
91A99 None of the above, but in this section
91Bxx Mathematical economics {For econometrics, see 62P20}
91B02 Fundamental topics (basic mathematics, methodology; applicable to economics in general)
91B06 Decision theory [See also 62Cxx, 90B50, 91A35]
91B08 Individual preferences
91B10 Group preferences
91B12 Voting theory
91B14 Social choice
91B16 Utility theory
91B18 Public goods
91B24 Price theory and market structure
91B26 Market models (auctions, bargaining, bidding, selling, etc.)
91B28 Finance, portfolios, investment
91B30 Risk theory, insurance
91B32 Resource and cost allocation
91B38 Production theory, theory of the firm
91B40 Labor market, contracts
91B42 Consumer behavior, demand theory
91B44 Informational economics
91B50 Equilibrium: general theory
91B52 Special types of equilibria
91B54 Special types of economies
91B60 General economic models, trade models
91B62 Dynamic economic models, growth models
91B64 Macro-economic models (monetary models, models of taxation)
91B66 Multisectoral models
91B68 Matching models
91B70 Stochastic models
91B72 Spatial models
91B74 Models of real-world systems
91B76 Environmental economics (natural resource models, harvesting, pollution, etc.)
91B82 Statistical methods; economic indices and measures
91B84 Economic time series analysis [See also 62M10]
91B99 None of the above, but in this section
91Cxx Social and behavioral sciences: general topics {For statistics, see 62–XX}
91C05 Measurement theory
91C15 One- and multidimensional scaling
91C20 Clustering [See also 62D05]
91C99 None of the above, but in this section
91Dxx Mathematical sociology (including anthropology)
91D10 Models of societies, social and urban evolution
91D20 Mathematical geography and demography
91D25 Spatial models [See also 91B72]
91D30 Social networks
91D35 Manpower systems [See also 91B40, 90B70]
91D99 None of the above, but in this section
91Exx Mathematical psychology
91E10 Cognitive psychology
91E30 Psychophysics and psychophysiology; perception
91E40 Memory and learning [See also 68T05]
91E45 Measurement and performance
91E99 None of the above, but in this section
91Fxx Other social and behavioral sciences (mathematical treatment)
91F10 History, political science
91F20 Linguistics [See also 03B65, 68T50]
91F99 None of the above, but in this section

92–XX BIOLOGY AND OTHER NATURAL SCIENCES
92–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
92–01 Instructional exposition (textbooks, tutorial papers, etc.)
92–02 Research exposition (monographs, survey articles)
92–03 Historical (must also be assigned at least one classification number from Section 01)
92–04 Explicit machine computation and programs (not the theory of computation or programming)
92–06 Proceedings, conferences, collections, etc.
92–08 Computational methods
92Bxx Mathematical biology in general
92B05 General biology and biomathematics
92B10 Taxonomy, statistics
92B15 General biostatistics [See also 62P10]
92B20 Neural networks, artificial life and related topics [See also 68T05, 82C32, 94Cxx]
92B99 None of the above, but in this section
92Cxx Physiological, cellular and medical topics
92C05 Biophysics
92C10 Biomechanics [See also 74L15]
92C15 Developmental biology, pattern formation
92C17 Cell movement (chemotaxis, etc.)
92C20 Neural biology
92C30 Physiology (general)
92C35 Physiological flow [See also 76Z05]
92C37 Cell biology
92C40 Biochemistry, molecular biology
92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [See also 80A30]
92C50 Medical applications (general)
92C55 Biomedical imaging and signal processing [See also 44A12, 65R10]
92C60 Medical epidemiology
92C80 Plant biology
92C99 None of the above, but in this section
92Dxx Genetics and population dynamics
92D10 Genetics {For genetic algebras, see 17D92}
92D15 Problems related to evolution
92D20 Protein sequences, DNA sequences
92D25 Population dynamics (general)
92D30 Epidemiology
92D40 Ecology
92D50 Animal behavior
92D99 None of the above, but in this section
92Exx Chemistry {For biochemistry, see 92C40}
92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)
92E20 Classical flows, reactions, etc. [See also 80A30, 80A32]
92E99 None of the above, but in this section
92F05 Other natural sciences

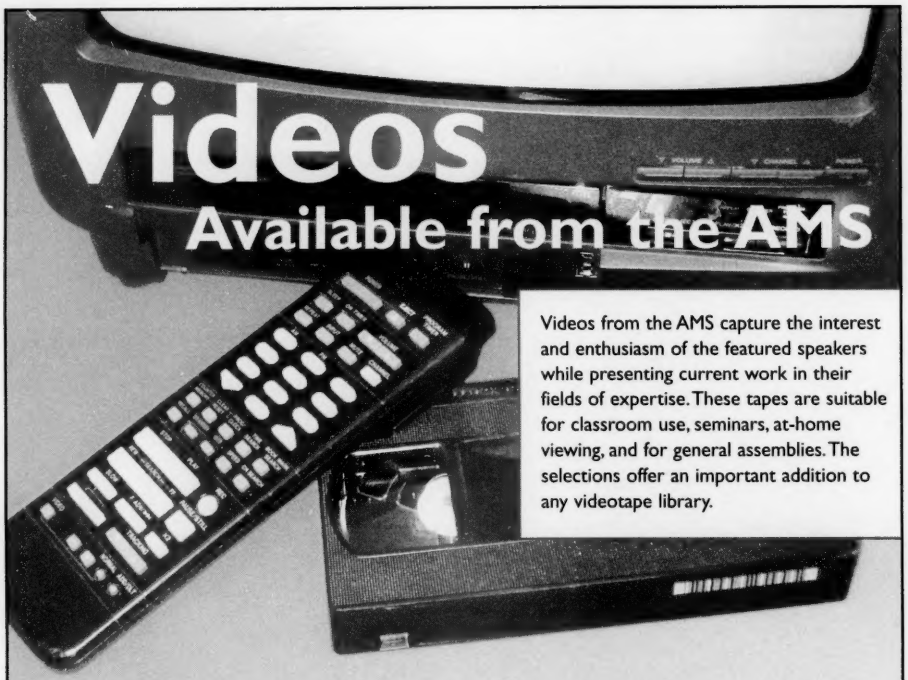
93–XX SYSTEMS THEORY; CONTROL {For optimal control, see 49–XX}
93–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
93–01 Instructional exposition (textbooks, tutorial papers, etc.)
93–02 Research exposition (monographs, survey articles)
93–03 Historical (must also be assigned at least one classification number from Section 01)
93–04 Explicit machine computation and programs (not the theory of computation or programming)
93–06 Proceedings, conferences, collections, etc.
93Axx General
93A05 Axiomatic system theory
93A10 General systems
93A13 Hierarchical systems
93A14 Decentralized systems
93A15 Large scale systems
93A30 Mathematical modeling (models of systems, model-matching, etc.)
93A99 None of the above, but in this section
93Bxx Controllability, observability, and system structure
93B03 Attainable sets
93B05 Controllability
93B07 Observability
93B10 Canonical structure
93B11 System structure simplification
93B12 Variable structure systems
93B15 Realizations from input-output data
93B17 Transformations
93B18 Linearizations
93B20 Minimal systems representations
93B25 Algebraic methods
93B27 Geometric methods (including algebro-geometric)
93B28 Operator-theoretic methods [See also 47A48, 47A57, 47B35, 47N70]
93B29 Differential-geometric methods
93B30 System identification
93B35 Sensitivity (robustness)
93B36 H^∞-control
93B40 Computational methods
93B50 Synthesis problems
93B51 Design techniques (robust design, computer-aided design, etc.)
93B52 Feedback control
93B55 Pole and zero placement problems

93B60 Eigenvalue problems
93B99 None of the above, but in this section
93Cxx Control systems, guided systems
93C05 Linear systems
93C10 Nonlinear systems
93C15 Systems governed by ordinary differential equations [See also 34H05]
93C20 Systems governed by partial differential equations [See also 35B37]
93C23 Systems governed by functional-differential equations [See also 34K35]
93C25 Systems in abstract spaces
93C30 Systems governed by functional relations other than differential equations
93C35 Multivariable systems
93C40 Adaptive control
93C41 Problems with incomplete information
93C42 Fuzzy control
93C55 Discrete-time systems
93C57 Sampled-data systems
93C62 Digital systems
93C65 Discrete event systems
93C70 Time-scale analysis and singular perturbations
93C73 Perturbations
93C80 Frequency-response methods
93C83 Control problems involving computers (process control, etc.)
93C85 Automated systems (robots, etc.) [See also 68T40, 70B15, 70Q05]
93C95 Applications
93C99 None of the above, but in this section
93Dxx Stability
93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p, l^p, etc.)
93D09 Robust stability
93D10 Popov-type stability of feedback systems
93D15 Stabilization of systems by feedback
93D20 Asymptotic stability
93D21 Adaptive or robust stabilization
93D25 Input-output approaches
93D30 Scalar and vector Lyapunov functions
93D99 None of the above, but in this section
93Exx Stochastic systems and control
93E03 Stochastic systems, general
93E10 Estimation and detection [See also 60G35]
93E11 Filtering [See also 60G35]
93E12 System identification
93E14 Data smoothing
93E15 Stochastic stability
93E20 Optimal stochastic control
93E24 Least squares and related methods
93E25 Other computational methods
93E35 Stochastic learning and adaptive control
93E99 None of the above, but in this section

94–XX INFORMATION AND COMMUNICATION, CIRCUITS
94–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
94–01 Instructional exposition (textbooks, tutorial papers, etc.)
94–02 Research exposition (monographs, survey articles)
94–03 Historical (must also be assigned at least one classification number from Section 01)
94–04 Explicit machine computation and programs (not the theory of computation or programming)
94–06 Proceedings, conferences, collections, etc.
94Axx Communication, information
94A05 Communication theory [See also 60G35, 90B18]
94A08 Image processing (compression, reconstruction, etc.) [See also 68U10]
94A11 Application of orthogonal functions in communication
94A12 Signal theory (characterization, reconstruction, etc.)
94A13 Detection theory
94A14 Modulation and demodulation
94A15 Information theory, general [See also 62B10]
94A17 Measures of information, entropy
94A20 Sampling theory
94A24 Coding theorems (Shannon theory)
94A29 Source coding [See also 68P30]
94A34 Rate-distortion theory
94A40 Channel models
94A45 Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
94A50 Theory of questionnaires
94A55 Shift register sequences and sequences over finite alphabets
94A60 Cryptography [See also 11T71, 14G50, 68P25]
94A62 Authentication and secret sharing
94A99 None of the above, but in this section
94Bxx Theory of error-correcting codes and error-detecting codes
94B05 Linear codes, general
94B10 Convolutional codes
94B12 Combined modulation schemes (including trellis codes)
94B15 Cyclic codes
94B20 Burst-correcting codes
94B25 Combinatorial codes
94B27 Geometric methods (including applications of algebraic geometry) [See also 11T71, 14G50]
94B30 Majority codes
94B35 Decoding
94B40 Arithmetic codes [See also 11T71, 14G50]
94B50 Synchronization error-correcting codes
94B60 Other types of codes
94B65 Bounds on codes
94B70 Error probability
94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [See also 11H31]
94B99 None of the above, but in this section
94Cxx Circuits, networks
94C05 Analytic circuit theory
94C10 Switching theory, application of Boolean algebra; Boolean functions [See also 06E30]
94C12 Fault detection; testing
94C15 Applications of graph theory [See also 05Cxx, 68R10]
94C30 Applications of design theory [See also 05Bxx]
94C99 None of the above, but in this section
94D05 Fuzzy sets and logic (in connection with questions of Section 94) [See also 03B52, 03E72, 28E10]

97–XX MATHEMATICS EDUCATION
97–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
97–01 Instructional exposition (textbooks, tutorial papers, etc.)
97–02 Research exposition (monographs, survey articles)
97–03 Historical (must also be assigned at least one classification number from Section 01)
97–04 Explicit machine computation and programs (not the theory of computation or programming)
97–06 Proceedings, conferences, collections, etc.
97Axx General
97A20 Recreational mathematics [See also 00A08]
97A40 Sociological issues [See also 97C60]
97A80 Standards [See also 97B70]
97A90 Fiction and games
97Bxx Educational policy and educational systems
97B10 Educational research and planning
97B20 General education
97B30 Vocational education
97B40 Higher education
97B50 Teacher education {For research aspects see 97C70}
97B60 Out-of-school education. Adult and further education
97B70 Syllabuses. Curriculum guides, official documents [See also 97A80]
97B99 None of the above, but in this section
97Cxx Psychology of and research in mathematics education
97C20 Affective aspects (motivation, anxiety, persistence, etc.)
97C30 Student learning and thinking (misconceptions, cognitive development, problem solving, etc.)
97C40 Assessment (large scale assessment, validity, reliability, etc.) [See also 97D10]
97C50 Theoretical perspectives (learning theories, epistemology, philosophies of teaching and learning, etc.) [See also 97D20]
97C60 Sociological aspects of learning (culture, group interactions, equity issues, etc.)
97C70 Teachers, and research on teacher education (teacher development, etc.) [See also 97B50]
97C80 Technological tools and other materials in teaching and learning (research on innovations, role in student learning, use of tools by teachers, etc.)
97C90 Teaching and curriculum (innovations, teaching practices, studies of curriculum materials, effective teaching, etc.)
97C99 None of the above, but in this section
97Dxx Education and instruction in mathematics
97D10 Comparative studies on mathematics education [See also 97C40]
97D20 Philosophical and theoretical contributions to mathematical education [See also 97C50]
97D30 Goals of mathematics teaching. Curriculum development
97D40 Teaching methods and classroom techniques. Lesson preparation. Educational principles {For research aspects see 97Cxx}
97D50 Teaching problem solving and heuristic strategies {For research aspects see 97Cxx}
97D60 Achievement control and rating

97D70 Diagnosis, analysis and remediation of learning difficulties and student errors
97D80 Teaching units, draft lessons and master lessons
97D99 None of the above, but in this section
97Uxx Educational material and media. Educational technology
97U20 Analysis of textbooks, development and evaluation of textbooks. Textbook use in the classroom
97U30 Teacher manuals and planning aids
97U40 Problem books; student competitions, examination questions
97U50 Computer assisted instruction and programmed instruction
97U60 Manipulative materials and their use in the classroom {For research aspects see 97C80}
97U70 Technological tools (computers, calculators, software, etc.) and their use in the classroom
97U80 Audiovisual media and their use in instruction
97U99 None of the above, but in this section



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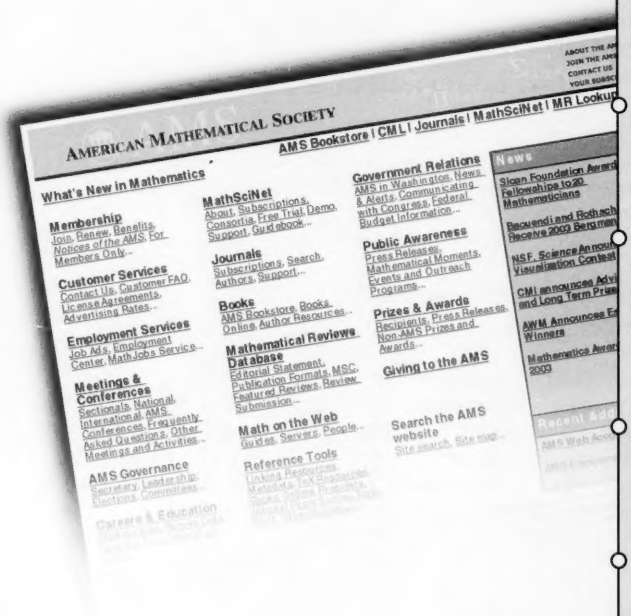
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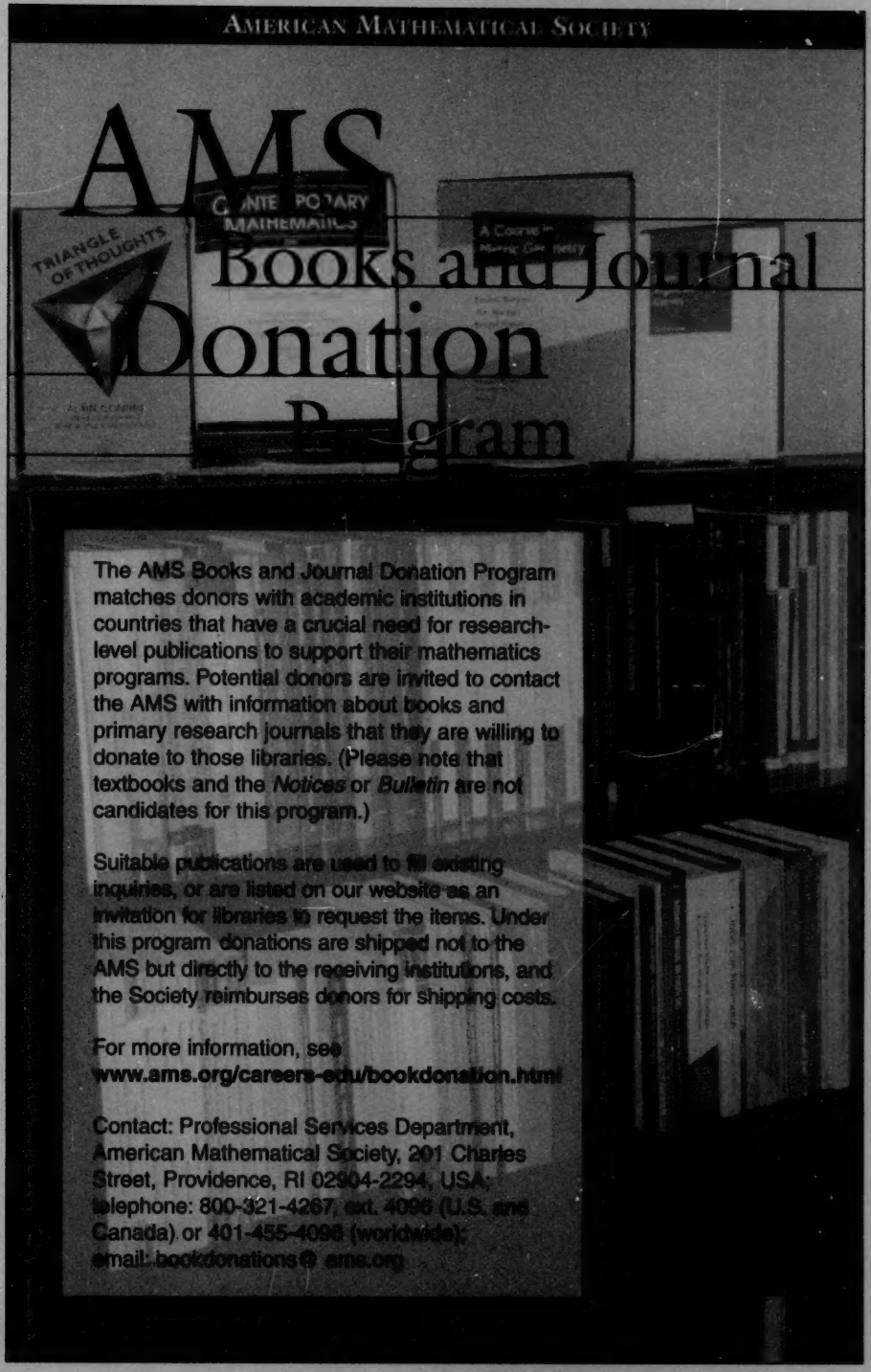
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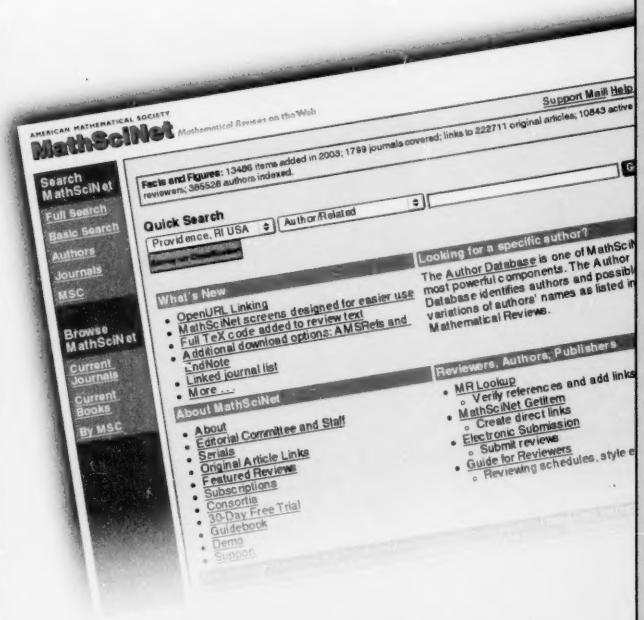
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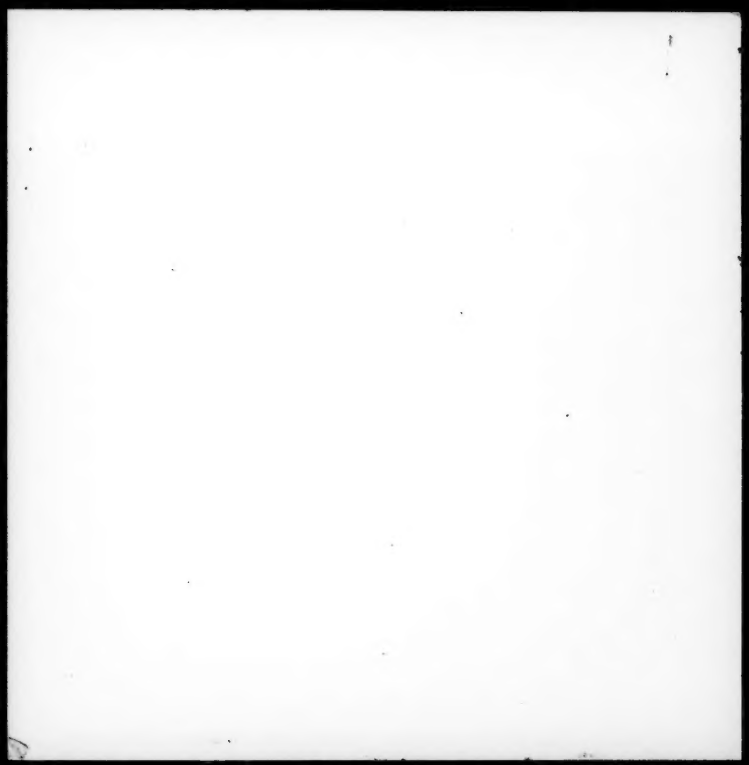
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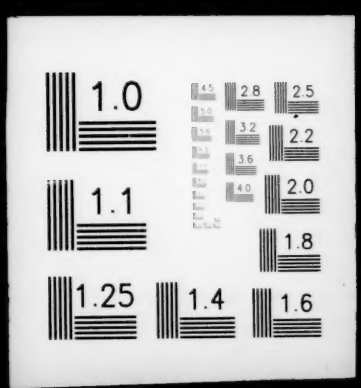
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